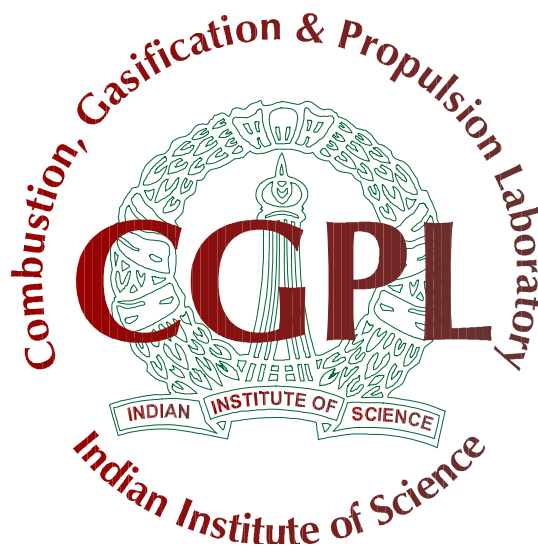


# Biomass Mapping for Power Generation in Selected States

## *Biomass Manual*



Combustion, Gasification & Propulsion Laboratory (CGPL)  
Department of Aerospace Engineering  
Indian Institute of Science  
Bangalore 560 012

## Biomass Assessment for Punjab for Kharif, Rabi, Yearly, Agro, Forest and Wastelands



# Biomass Assessment for Punjab

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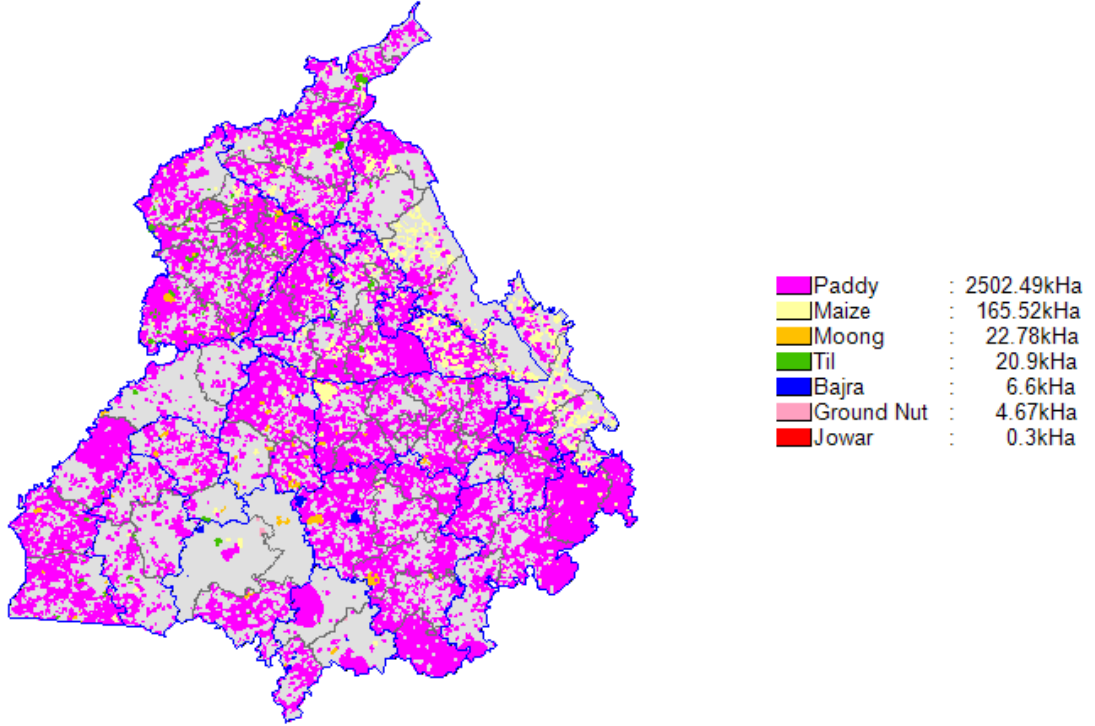
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# Kharif

## Punjab-Kharif



## State Level Residue Wise

State level Residue-wise Data for Punjab; Season : Kharif						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	2502.5	8872.9	13309.4	10647.5	1277.7
Paddy	Husk	2502.5	8872.9	1774.6	1419.7	156.2
Maize	Stalks	165.5	452.7	905.4	181.1	23.5
Maize	Cobs	165.5	452.7	226.3	67.9	9.5
Til	Stalks	20.9	7.8	19.5	1.9	0.25
Groundnut	Stalks	4.7	4.2	8.5	1.7	0.22
Moong	Stalks	22.8	13.1	14.4	1.4	0.19
Bajra	Stalks	6.6	6.2	12.4	1.2	0.16
Bajra	Cobs	6.6	6.2	2.0	1.0	0.13

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Groundnut	Shell	4.7	4.2	1.3	0.89	0.11
Bajra	Husk	6.6	6.2	1.9	0.46	0.056
Others	Others	0.30	0.31	2.7	0.31	0.038
<b>Total</b>		<b>2723.3</b>	<b>9357.2</b>	<b>16278.2</b>	<b>12325.2</b>	<b>1468.1</b>

### State Level District Wise

<b>State level District-wise Data for Punjab ; Season : Kharif</b>					
District	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sangrur	363.9	1398.5	2382.6	1892.1	224.9
Amritsar	336.5	977.5	1675.7	1312.2	156.0
Ludhiana	244.4	935.6	1603.7	1256.1	149.4
Patiala	253.1	913.2	1556.1	1238.1	147.2
Firozpur	238.7	870.2	1480.4	1177.9	140.0
Moga	158.8	591.3	1007.6	799.3	95.0
Gurdaspur	209.8	599.0	1040.3	791.9	94.3
Jalandhar	150.3	495.1	881.6	632.3	75.5
Kapurthala	109.7	379.0	655.4	503.9	60.0
Fatehgarh Sahib	82.1	327.2	558.9	442.3	52.6
Bathinda	85.8	311.9	531.6	421.1	50.1
Faridkot	72.4	270.2	460.4	365.0	43.4
Hoshiarpur	129.7	365.7	775.9	340.6	41.9
Mansa	72.1	250.0	427.3	337.2	40.1
Muktsar	70.5	247.1	421.7	332.4	39.5
Rupnagar	82.0	231.6	447.7	260.3	31.4
Nawanshahr	63.4	194.3	371.4	222.4	26.8
<b>Total</b>	<b>2723.3</b>	<b>9357.2</b>	<b>16278.2</b>	<b>12325.2</b>	<b>1468.1</b>

## State Level Taluk Wise

State level Taluk-wise Data for Punjab ; Season : Kharif						
District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sangrur	Barnala	112.8	428.4	729.7	579.4	68.9
Moga	Moga	106.3	398.3	678.2	539.6	64.1
Patiala	Patiala	90.6	327.2	557.2	444.2	52.8
Firozpur	Fazilka	82.3	303.3	515.9	411.4	48.9
Bathinda	Talwandi Sabo	80.1	298.6	507.6	405.9	48.2
Patiala	Rajpura	81.2	292.3	499.0	395.3	47.0
Gurdaspur	Gurdaspur	94.4	269.8	469.9	355.5	42.4
Firozpur	Abohar	74.9	263.8	449.2	354.7	42.2
Faridkot	Faridkot	67.5	253.8	432.0	343.5	40.8
Amritsar	Tarn-Taran	82.6	244.9	418.3	330.8	39.3
Firozpur	Jalalabad	64.9	243.0	413.1	330.4	39.3
Amritsar	Patti	83.9	244.5	418.3	328.8	39.1
Sangrur	Sunam	61.0	236.6	402.3	321.3	38.2
Sangrur	Moonak	60.1	234.6	398.8	319.0	37.9
Sangrur	Sangrur	60.4	230.1	390.7	311.4	37.0
Ludhiana	Jagraon	62.1	236.3	414.7	307.5	36.7
Jalandhar	Phillaur	64.7	214.3	373.8	281.6	33.6
Kapurthala	Kapurthala	50.6	173.8	300.0	231.7	27.6
Gurdaspur	Batala	60.3	174.3	302.0	231.3	27.5
Fatehgarh Sahib	Fatehgarh Sahib	41.5	165.5	282.5	223.8	26.6
Sangrur	Malerkotla	42.3	164.5	279.8	223.7	26.6
Ludhiana	Ludhiana(East)	42.4	163.4	278.0	221.5	26.3
Moga	Nihal Singhwala	43.5	161.0	274.2	217.5	25.8
Mansa	Sardulgarh	41.9	146.6	250.5	197.9	23.5
Nawanshahr	Nawanshahr	52.2	160.6	302.5	188.7	22.7
Ludhiana	Samrala	35.7	138.8	236.1	188.8	22.4
Amritsar	Ajnala	47.0	136.9	235.0	183.7	21.8
Muktsar	Malout	38.0	135.1	231.2	182.0	21.6
Kapurthala	Sultanpur Lodhi	35.8	124.1	214.4	165.3	19.7
Patiala	Nabha	33.1	119.8	203.8	162.7	19.3
Patiala	Dera Bassi	33.0	119.3	203.2	161.8	19.2
Ludhiana	Ludhiana(West)	29.3	112.2	190.6	152.3	18.1

District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Gurdaspur	Pathankot	41.0	114.1	198.1	150.7	17.9
Hoshiarpur	Mukerian	44.3	124.5	232.9	147.7	17.8
Ludhiana	Raikot	27.4	105.7	179.7	143.6	17.1
Ludhiana	Payal	27.9	102.8	174.5	138.9	16.5
Jalandhar	Nakodar	31.6	105.4	184.7	137.6	16.4
Sangrur	Dhuri	27.3	104.2	181.4	137.3	16.4
Amritsar	Baba Bakala	38.0	102.3	176.6	135.3	16.1
Amritsar	Amritsar-I	32.1	92.9	159.1	124.6	14.8
Rupnagar	Rupnagar	35.7	103.5	196.5	120.0	14.5
Jalandhar	Jalandhar-I	29.2	94.6	170.6	118.7	14.2
Hoshiarpur	Hoshiarpur	52.4	151.1	361.2	99.7	12.8
Amritsar	Khadur Sahib	26.2	77.5	132.3	104.7	12.4
Amritsar	Amritsar-Ii	26.8	78.6	136.0	104.3	12.4
Ludhiana	Khanna	19.6	76.3	130.1	103.5	12.3
Fatehgarh Sahib	Khamanon	18.8	75.1	127.8	102.0	12.1
Fatehgarh Sahib	Bassi Pathana	17.9	70.9	121.2	95.7	11.4
Mansa	Mansa	20.4	70.5	120.3	95.4	11.3
Muktsar	Muktsar	20.6	70.7	119.9	94.9	11.3
Kapurthala	Phagwara	20.4	70.8	123.2	93.4	11.1
Rupnagar	Anandpur Sahib	23.4	66.3	127.6	75.0	9.1
Patiala	Samana	15.1	54.6	93.0	74.1	8.8
Hoshiarpur	Garhshankar	24.1	66.8	141.7	62.1	7.6
Jalandhar	Jalandhar-Ii	15.5	50.1	95.8	57.3	6.9
Muktsar	Giddarbaha	11.9	41.3	70.6	55.5	6.6
Rupnagar	Kharar	18.7	50.3	100.0	53.7	6.5
Firozpur	Firozpur	10.2	36.3	61.6	48.9	5.8
Mansa	Budhlada	9.8	32.9	56.5	43.9	5.2
Moga	Bagha Purana	9.1	32.0	55.2	42.2	5.0
Jalandhar	Shahkot	9.3	30.7	56.8	37.0	4.4
Nawanshahr	Balachaur	11.2	33.6	68.9	33.7	4.1
Firozpur	Zira	6.4	23.9	40.6	32.4	3.9
Hoshiarpur	Dasua	8.9	23.3	40.1	31.2	3.7
Gurdaspur	Dera Baba Nanak	8.1	23.3	40.6	30.7	3.7
Gurdaspur	Dhar Kalan	5.9	17.4	29.6	23.7	2.8
Faridkot	Jaitu	4.9	16.4	28.3	21.5	2.6
Fatehgarh Sahib	Amloh	4.0	15.7	27.3	20.8	2.5
Bathinda	Bathinda	4.4	12.5	23.2	15.1	1.8



District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Kapurthala	Bhulath	3.0	10.2	17.8	13.6	1.6
Rupnagar	S.A.S.Nagar(Mohali)	4.2	11.5	23.6	11.5	1.4
Bathinda	Rampura Phul	1.3	0.72	0.90	0.090	0.012
<b>Total</b>		<b>2723.3</b>	<b>9357.2</b>	<b>16278.2</b>	<b>12325.2</b>	<b>1468.1</b>

## District Level Residue Wise

<b>District level Residue-wise Data for Amritsar; Season : Kharif</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	319.0	958.1	1437.1	1149.7	138.0
Paddy	Husk	319.0	958.1	191.6	153.3	16.9
Maize	Stalks	6.0	15.0	30.0	6.0	0.78
Maize	Cobs	6.0	15.0	7.5	2.3	0.32
Til	Stalks	9.0	3.1	7.8	0.78	0.10
Others	Others	2.4	1.3	1.6	0.16	0.021
<b>Total</b>		<b>336.5</b>	<b>977.5</b>	<b>1675.7</b>	<b>1312.2</b>	<b>156.0</b>

<b>District level Residue-wise Data for Bathinda; Season : Kharif</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	82.5	308.7	463.0	370.4	44.4
Paddy	Husk	82.5	308.7	61.7	49.4	5.4
Others	Others	2.8	1.9	4.3	0.80	0.10
Maize	Stalks	0.46	1.3	2.6	0.52	0.068
<b>Total</b>		<b>85.8</b>	<b>311.9</b>	<b>531.6</b>	<b>421.1</b>	<b>50.1</b>

<b>District level Residue-wise Data for Faridkot; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	70.0	267.6	401.5	321.2	38.5
Paddy	Husk	70.0	267.6	53.5	42.8	4.7
Maize	Stalks	0.45	1.3	2.6	0.51	0.067
Others	Others	1.9	1.3	2.8	0.49	0.065
<b>Total</b>		<b>72.4</b>	<b>270.2</b>	<b>460.4</b>	<b>365.0</b>	<b>43.4</b>

<b>District level Residue-wise Data for Fatehgarh Sahib; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	81.0	323.9	485.8	388.7	46.6
Paddy	Husk	81.0	323.9	64.8	51.8	5.7
Maize	Stalks	1.0	3.2	6.5	1.3	0.17
Maize	Cobs	1.0	3.2	1.6	0.49	0.068
Others	Others	0.13	0.087	0.18	0.035	0.0044
<b>Total</b>		<b>82.1</b>	<b>327.2</b>	<b>558.9</b>	<b>442.3</b>	<b>52.6</b>

<b>District level Residue-wise Data for Firozpur; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	230.4	865.0	1297.5	1038.0	124.6
Paddy	Husk	230.4	865.0	173.0	138.4	15.2
Others	Others	7.9	3.9	7.4	0.96	0.13
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>238.7</b>	<b>870.2</b>	<b>1480.4</b>	<b>1177.9</b>	<b>140.0</b>

<b>District level Residue-wise Data for Gurdaspur; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	194.1	571.3	857.0	685.6	82.3
Paddy	Husk	194.1	571.3	114.3	91.4	10.1
Maize	Stalks	13.0	26.6	53.3	10.7	1.4
Maize	Cobs	13.0	26.6	13.3	4.0	0.56
Others	Others	2.7	0.98	2.4	0.26	0.034
<b>Total</b>		<b>209.8</b>	<b>599.0</b>	<b>1040.3</b>	<b>791.9</b>	<b>94.3</b>

<b>District level Residue-wise Data for Hoshiarpur; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.5	172.2	258.3	206.6	24.8
Maize	Stalks	65.3	190.2	380.5	76.1	9.9
Maize	Cobs	65.3	190.2	95.1	28.5	4.0
Paddy	Husk	60.5	172.2	34.4	27.5	3.0
Groundnut	Stalks	2.9	2.7	5.4	1.1	0.14
Groundnut	Shell	2.9	2.7	0.81	0.57	0.068
Others	Others	0.91	0.60	1.4	0.17	0.022
<b>Total</b>		<b>129.7</b>	<b>365.7</b>	<b>775.9</b>	<b>340.6</b>	<b>41.9</b>

<b>District level Residue-wise Data for Jalandhar; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	132.0	444.8	667.3	533.8	64.1
Paddy	Husk	132.0	444.8	89.0	71.2	7.8
Maize	Stalks	16.3	49.3	98.6	19.7	2.6
Maize	Cobs	16.3	49.3	24.6	7.4	1.0
Others	Others	2.0	0.94	2.2	0.25	0.032
<b>Total</b>		<b>150.3</b>	<b>495.1</b>	<b>881.6</b>	<b>632.3</b>	<b>75.5</b>

<b>District level Residue-wise Data for Kapurthala; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	105.1	364.9	547.4	437.9	52.5
Paddy	Husk	105.1	364.9	73.0	58.4	6.4
Maize	Stalks	4.0	13.8	27.6	5.5	0.72
Maize	Cobs	4.0	13.8	6.9	2.1	0.29
Others	Others	0.56	0.25	0.54	0.072	0.0092
<b>Total</b>		<b>109.7</b>	<b>379.0</b>	<b>655.4</b>	<b>503.9</b>	<b>60.0</b>

<b>District level Residue-wise Data for Ludhiana; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	235.2	916.4	1374.6	1099.7	132.0
Paddy	Husk	235.2	916.4	183.3	146.6	16.1
Maize	Stalks	5.1	17.3	34.7	6.9	0.90
Maize	Cobs	5.1	17.3	8.7	2.6	0.36
Others	Others	4.2	1.9	2.5	0.26	0.034
<b>Total</b>		<b>244.4</b>	<b>935.6</b>	<b>1603.7</b>	<b>1256.1</b>	<b>149.4</b>

<b>District level Residue-wise Data for Mansa; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	69.3	246.9	370.3	296.3	35.6
Paddy	Husk	69.3	246.9	49.4	39.5	4.3
Others	Others	2.3	1.9	5.0	0.92	0.12
Maize	Stalks	0.45	1.3	2.5	0.51	0.066
<b>Total</b>		<b>72.1</b>	<b>250.0</b>	<b>427.3</b>	<b>337.2</b>	<b>40.1</b>

<b>District level Residue-wise Data for Moga; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	154.0	586.2	879.3	703.5	84.4
Paddy	Husk	154.0	586.2	117.2	93.8	10.3
Maize	Stalks	1.0	2.7	5.5	1.1	0.14
Others	Others	3.8	2.4	4.1	0.57	0.073
Maize	Cobs	1.0	2.7	1.4	0.41	0.057
<b>Total</b>		<b>158.8</b>	<b>591.3</b>	<b>1007.6</b>	<b>799.3</b>	<b>95.0</b>

<b>District level Residue-wise Data for Muktsar; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	66.3	243.4	365.1	292.1	35.1
Paddy	Husk	66.3	243.4	48.7	38.9	4.3
Others	Others	3.7	2.4	5.3	0.81	0.11
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>70.5</b>	<b>247.1</b>	<b>421.7</b>	<b>332.4</b>	<b>39.5</b>

<b>District level Residue-wise Data for Nawanshahr; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	45.0	142.7	214.0	171.2	20.5
Maize	Stalks	18.2	51.5	102.9	20.6	2.7
Paddy	Husk	45.0	142.7	28.5	22.8	2.5
Maize	Cobs	18.2	51.5	25.7	7.7	1.1
Others	Others	0.19	0.093	0.19	0.031	0.0039
<b>Total</b>		<b>63.4</b>	<b>194.3</b>	<b>371.4</b>	<b>222.4</b>	<b>26.8</b>

<b>District level Residue-wise Data for Patiala; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	251.0	908.5	1362.8	1090.2	130.8
Paddy	Husk	251.0	908.5	181.7	145.4	16.0
Maize	Stalks	2.0	4.7	9.3	1.9	0.24
Maize	Cobs	2.0	4.7	2.3	0.70	0.098
Others	Others	0.028	0.018	0.023	0.0023	0.00030
<b>Total</b>		<b>253.1</b>	<b>913.2</b>	<b>1556.1</b>	<b>1238.1</b>	<b>147.2</b>

<b>District level Residue-wise Data for Rupnagar; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	51.4	164.3	246.4	197.2	23.7
Maize	Stalks	29.2	66.3	132.6	26.5	3.4
Paddy	Husk	51.4	164.3	32.9	26.3	2.9
Maize	Cobs	29.2	66.3	33.2	9.9	1.4
Others	Others	1.4	1.0	2.6	0.41	0.053
<b>Total</b>		<b>82.0</b>	<b>231.6</b>	<b>447.7</b>	<b>260.3</b>	<b>31.4</b>

<b>District level Residue-wise Data for Sangrur; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	355.7	1388.0	2082.0	1665.6	199.9
Paddy	Husk	355.7	1388.0	277.6	222.1	24.4
Maize	Stalks	2.0	5.6	11.1	2.2	0.29
Others	Others	4.0	2.9	5.1	0.96	0.12
Maize	Cobs	2.0	5.6	2.8	0.83	0.12
Bajra	Stalks	2.1	2.0	4.0	0.40	0.052
<b>Total</b>		<b>363.9</b>	<b>1398.5</b>	<b>2382.6</b>	<b>1892.1</b>	<b>224.9</b>

## Disrict Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Amritsar ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Tarn-Taran	82.6	244.9	418.3	330.8	39.3
Patti	83.9	244.5	418.3	328.8	39.1
Ajnala	47.0	136.9	235.0	183.7	21.8
Baba Bakala	38.0	102.3	176.6	135.3	16.1
Amritsar-I	32.1	92.9	159.1	124.6	14.8
Khadur Sahib	26.2	77.5	132.3	104.7	12.4
Amritsar-Ii	26.8	78.6	136.0	104.3	12.4
<b>Total</b>		<b>336.5</b>	<b>977.5</b>	<b>1675.7</b>	<b>1312.2</b>

<b>DistrictLevel Taluk-wise Data for Bathinda ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Talwandi Sabo	80.1	298.6	507.6	405.9	48.2
Bathinda	4.4	12.5	23.2	15.1	1.8
Rampura Phul	1.3	0.72	0.90	0.090	0.012
<b>Total</b>		<b>85.8</b>	<b>311.9</b>	<b>531.6</b>	<b>421.1</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Faridkot	67.5	253.8	432.0	343.5	40.8
Jaitu	4.9	16.4	28.3	21.5	2.6
<b>Total</b>		<b>72.4</b>	<b>270.2</b>	<b>460.4</b>	<b>365.0</b>

<b>DistrictLevel Taluk-wise Data for Fatehgarh Sahib ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Fatehgarh Sahib	41.5	165.5	282.5	223.8	26.6
Khamanon	18.8	75.1	127.8	102.0	12.1
Bassi Pathana	17.9	70.9	121.2	95.7	11.4
Amloh	4.0	15.7	27.3	20.8	2.5
<b>Total</b>		<b>82.1</b>	<b>327.2</b>	<b>558.9</b>	<b>442.3</b>

<b>DistrictLevel Taluk-wise Data for Firozpur ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Fazilka	82.3	303.3	515.9	411.4	48.9
Abohar	74.9	263.8	449.2	354.7	42.2
Jalalabad	64.9	243.0	413.1	330.4	39.3
Firozpur	10.2	36.3	61.6	48.9	5.8
Zira	6.4	23.9	40.6	32.4	3.9
<b>Total</b>		<b>238.7</b>	<b>870.2</b>	<b>1480.4</b>	<b>1177.9</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Gurdaspur	94.4	269.8	469.9	355.5	42.4
Batala	60.3	174.3	302.0	231.3	27.5
Pathankot	41.0	114.1	198.1	150.7	17.9
Dera Baba Nanak	8.1	23.3	40.6	30.7	3.7
Dhar Kalan	5.9	17.4	29.6	23.7	2.8
<b>Total</b>		<b>209.8</b>	<b>599.0</b>	<b>1040.3</b>	<b>791.9</b>



<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Mukerian	44.3	124.5	232.9	147.7	17.8
Hoshiarpur	52.4	151.1	361.2	99.7	12.8
Garhshankar	24.1	66.8	141.7	62.1	7.6
Dasua	8.9	23.3	40.1	31.2	3.7
<b>Total</b>		<b>129.7</b>	<b>365.7</b>	<b>775.9</b>	<b>340.6</b>

<b>DistrictLevel Taluk-wise Data for Jalandhar ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Phillaur	64.7	214.3	373.8	281.6	33.6
Nakodar	31.6	105.4	184.7	137.6	16.4
Jalandhar-I	29.2	94.6	170.6	118.7	14.2
Jalandhar-Ii	15.5	50.1	95.8	57.3	6.9
Shahkot	9.3	30.7	56.8	37.0	4.4
<b>Total</b>		<b>150.3</b>	<b>495.1</b>	<b>881.6</b>	<b>632.3</b>

<b>DistrictLevel Taluk-wise Data for Kapurthala ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Kapurthala	50.6	173.8	300.0	231.7	27.6
Sultanpur Lodhi	35.8	124.1	214.4	165.3	19.7
Phagwara	20.4	70.8	123.2	93.4	11.1
Bhulath	3.0	10.2	17.8	13.6	1.6
<b>Total</b>		<b>109.7</b>	<b>379.0</b>	<b>655.4</b>	<b>503.9</b>

<b>DistrictLevel Taluk-wise Data for Ludhiana ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jagraon	62.1	236.3	414.7	307.5	36.7
Ludhiana(East)	42.4	163.4	278.0	221.5	26.3
Samrala	35.7	138.8	236.1	188.8	22.4
Ludhiana(West)	29.3	112.2	190.6	152.3	18.1
Raikot	27.4	105.7	179.7	143.6	17.1
Payal	27.9	102.8	174.5	138.9	16.5
Khanna	19.6	76.3	130.1	103.5	12.3
<b>Total</b>		<b>244.4</b>	<b>935.6</b>	<b>1603.7</b>	<b>1256.1</b>

<b>DistrictLevel Taluk-wise Data for Mansa ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sardulgarh	41.9	146.6	250.5	197.9	23.5
Mansa	20.4	70.5	120.3	95.4	11.3
Budhlada	9.8	32.9	56.5	43.9	5.2
<b>Total</b>		<b>72.1</b>	<b>250.0</b>	<b>427.3</b>	<b>337.2</b>

<b>DistrictLevel Taluk-wise Data for Moga ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Moga	106.3	398.3	678.2	539.6	64.1
Nihal Singhwala	43.5	161.0	274.2	217.5	25.8
Bagha Purana	9.1	32.0	55.2	42.2	5.0
<b>Total</b>		<b>158.8</b>	<b>591.3</b>	<b>1007.6</b>	<b>799.3</b>

<b>DistrictLevel Taluk-wise Data for Muktsar ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Malout	38.0	135.1	231.2	182.0	21.6
Muktsar	20.6	70.7	119.9	94.9	11.3
Giddarbaha	11.9	41.3	70.6	55.5	6.6
<b>Total</b>		<b>70.5</b>	<b>247.1</b>	<b>421.7</b>	<b>332.4</b>

<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nawanshahr	52.2	160.6	302.5	188.7	22.7
Balachaur	11.2	33.6	68.9	33.7	4.1
<b>Total</b>		<b>63.4</b>	<b>194.3</b>	<b>371.4</b>	<b>222.4</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Patiala	90.6	327.2	557.2	444.2	52.8
Rajpura	81.2	292.3	499.0	395.3	47.0
Nabha	33.1	119.8	203.8	162.7	19.3
Dera Bassi	33.0	119.3	203.2	161.8	19.2
Samana	15.1	54.6	93.0	74.1	8.8
<b>Total</b>		<b>253.1</b>	<b>913.2</b>	<b>1556.1</b>	<b>1238.1</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Rupnagar	35.7	103.5	196.5	120.0	14.5
Anandpur Sahib	23.4	66.3	127.6	75.0	9.1
Kharar	18.7	50.3	100.0	53.7	6.5
S.A.S.Nagar(Mohali)	4.2	11.5	23.6	11.5	1.4
<b>Total</b>		<b>82.0</b>	<b>231.6</b>	<b>447.7</b>	<b>260.3</b>

<b>DistrictLevel Taluk-wise Data for Sangrur ; Season : Kharif</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Barnala	112.8	428.4	729.7	579.4	68.9
Sunam	61.0	236.6	402.3	321.3	38.2
Moonak	60.1	234.6	398.8	319.0	37.9
Sangrur	60.4	230.1	390.7	311.4	37.0
Malerkotla	42.3	164.5	279.8	223.7	26.6
Dhuri	27.3	104.2	181.4	137.3	16.4
<b>Total</b>		<b>363.9</b>	<b>1398.5</b>	<b>2382.6</b>	<b>1892.1</b>

### Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Ajnala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	44.6	134.0	201.0	160.8	19.3
Paddy	Husk	44.6	134.0	26.8	21.4	2.4
Maize	Stalks	0.97	2.4	4.8	0.97	0.13
Maize	Cobs	0.97	2.4	1.2	0.36	0.051
Others	Others	1.4	0.50	1.2	0.12	0.015
<b>Total</b>		<b>47.0</b>	<b>136.9</b>	<b>235.0</b>	<b>183.7</b>	<b>21.8</b>

<b>Taluk level Residue-wise Data for Amritsar-I ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	30.3	91.0	136.5	109.2	13.1
Paddy	Husk	30.3	91.0	18.2	14.6	1.6
Maize	Stalks	0.55	1.4	2.7	0.54	0.070
Others	Others	1.3	0.52	1.7	0.31	0.042
<b>Total</b>		<b>32.1</b>	<b>92.9</b>	<b>159.1</b>	<b>124.6</b>	<b>14.8</b>

<b>Taluk level Residue-wise Data for Amritsar-Ii ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	25.1	75.5	113.2	90.6	10.9
Paddy	Husk	25.1	75.5	15.1	12.1	1.3
Maize	Stalks	1.2	2.9	5.8	1.2	0.15
Maize	Cobs	1.2	2.9	1.4	0.43	0.061
Others	Others	0.53	0.20	0.45	0.045	0.0058
<b>Total</b>		<b>26.8</b>	<b>78.6</b>	<b>136.0</b>	<b>104.3</b>	<b>12.4</b>

<b>Taluk level Residue-wise Data for Baba Bakala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	32.7	98.2	147.4	117.9	14.1
Paddy	Husk	32.7	98.2	19.6	15.7	1.7
Maize	Stalks	0.96	2.4	4.8	0.96	0.12
Maize	Cobs	0.96	2.4	1.2	0.36	0.050
Others	Others	4.3	1.7	3.6	0.36	0.046
<b>Total</b>		<b>38.0</b>	<b>102.3</b>	<b>176.6</b>	<b>135.3</b>	<b>16.1</b>

<b>Taluk level Residue-wise Data for Khadur Sahib ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	25.5	76.7	115.0	92.0	11.0
Paddy	Husk	25.5	76.7	15.3	12.3	1.3
Others	Others	0.63	0.80	1.9	0.39	0.052
<b>Total</b>		<b>26.2</b>	<b>77.5</b>	<b>132.3</b>	<b>104.7</b>	<b>12.4</b>

<b>Taluk level Residue-wise Data for Patti ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.0	240.4	360.6	288.5	34.6
Paddy	Husk	80.0	240.4	48.1	38.5	4.2
Maize	Stalks	1.2	3.0	6.1	1.2	0.16
Maize	Cobs	1.2	3.0	1.5	0.46	0.064
Others	Others	2.6	1.0	2.1	0.21	0.027
<b>Total</b>		<b>83.9</b>	<b>244.5</b>	<b>418.3</b>	<b>328.8</b>	<b>39.1</b>

<b>Taluk level Residue-wise Data for Tarn-Taran ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.7	242.3	363.4	290.7	34.9
Paddy	Husk	80.7	242.3	48.5	38.8	4.3
Maize	Stalks	0.91	2.3	4.5	0.90	0.12
Others	Others	0.99	0.37	2.0	0.42	0.058
<b>Total</b>		<b>82.6</b>	<b>244.9</b>	<b>418.3</b>	<b>330.8</b>	<b>39.3</b>

<b>Taluk level Residue-wise Data for Bathinda ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	2.7	10.2	15.4	12.3	1.5
Paddy	Husk	2.7	10.2	2.0	1.6	0.18
Others	Others	1.2	1.0	3.1	0.68	0.089
Maize	Stalks	0.46	1.3	2.6	0.52	0.068
<b>Total</b>		<b>4.4</b>	<b>12.5</b>	<b>23.2</b>	<b>15.1</b>	<b>1.8</b>

<b>Taluk level Residue-wise Data for Rampura Phul ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Others	Others	1.3	0.72	0.90	0.090	0.012
<b>Total</b>		<b>1.3</b>	<b>0.72</b>	<b>0.90</b>	<b>0.090</b>	<b>0.012</b>

<b>Taluk level Residue-wise Data for Talwandi Sabo ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	79.8	298.4	447.6	358.1	43.0
Paddy	Husk	79.8	298.4	59.7	47.7	5.3
Others	Others	0.33	0.17	0.25	0.025	0.0032
<b>Total</b>		<b>80.1</b>	<b>298.6</b>	<b>507.6</b>	<b>405.9</b>	<b>48.2</b>

<b>Taluk level Residue-wise Data for Faridkot ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	65.9	252.1	378.1	302.5	36.3
Paddy	Husk	65.9	252.1	50.4	40.3	4.4
Others	Others	1.5	1.7	3.5	0.65	0.085
<b>Total</b>		<b>67.5</b>	<b>253.8</b>	<b>432.0</b>	<b>343.5</b>	<b>40.8</b>

<b>Taluk level Residue-wise Data for Jaitu ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	4.1	15.5	23.3	18.6	2.2
Paddy	Husk	4.1	15.5	3.1	2.5	0.27
Others	Others	0.84	0.85	1.9	0.35	0.046
<b>Total</b>		<b>4.9</b>	<b>16.4</b>	<b>28.3</b>	<b>21.5</b>	<b>2.6</b>

<b>Taluk level Residue-wise Data for Amlloh ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	3.8	15.0	22.5	18.0	2.2
Paddy	Husk	3.8	15.0	3.0	2.4	0.26
Others	Others	0.25	0.73	1.8	0.40	0.053
<b>Total</b>		<b>4.0</b>	<b>15.7</b>	<b>27.3</b>	<b>20.8</b>	<b>2.5</b>

<b>Taluk level Residue-wise Data for Bassi Pathana ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	17.5	70.0	105.0	84.0	10.1
Paddy	Husk	17.5	70.0	14.0	11.2	1.2
Others	Others	0.34	0.88	2.2	0.47	0.063
<b>Total</b>		<b>17.9</b>	<b>70.9</b>	<b>121.2</b>	<b>95.7</b>	<b>11.4</b>

<b>Taluk level Residue-wise Data for Fatehgarh Sahib ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	41.0	163.9	245.9	196.7	23.6
Paddy	Husk	41.0	163.9	32.8	26.2	2.9
Maize	Stalks	0.48	1.5	3.1	0.62	0.080
Others	Others	0.011	0.0049	0.78	0.23	0.033
<b>Total</b>		<b>41.5</b>	<b>165.5</b>	<b>282.5</b>	<b>223.8</b>	<b>26.6</b>

<b>Taluk level Residue-wise Data for Khamanon ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	18.7	74.9	112.4	89.9	10.8
Paddy	Husk	18.7	74.9	15.0	12.0	1.3
Others	Others	0.051	0.16	0.41	0.090	0.012
<b>Total</b>		<b>18.8</b>	<b>75.1</b>	<b>127.8</b>	<b>102.0</b>	<b>12.1</b>

<b>Taluk level Residue-wise Data for Abohar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	69.2	260.0	390.0	312.0	37.4
Paddy	Husk	69.2	260.0	52.0	41.6	4.6
Others	Others	5.2	2.5	4.6	0.60	0.079
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>74.9</b>	<b>263.8</b>	<b>449.2</b>	<b>354.7</b>	<b>42.2</b>



<b>Taluk level Residue-wise Data for Fazilka ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.5	302.3	453.4	362.7	43.5
Paddy	Husk	80.5	302.3	60.5	48.4	5.3
Others	Others	1.8	0.99	2.1	0.29	0.037
<b>Total</b>		<b>82.3</b>	<b>303.3</b>	<b>515.9</b>	<b>411.4</b>	<b>48.9</b>

<b>Taluk level Residue-wise Data for Firozpur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	9.6	35.9	53.9	43.1	5.2
Paddy	Husk	9.6	35.9	7.2	5.8	0.63
Others	Others	0.67	0.34	0.48	0.048	0.0062
<b>Total</b>		<b>10.2</b>	<b>36.3</b>	<b>61.6</b>	<b>48.9</b>	<b>5.8</b>

<b>Taluk level Residue-wise Data for Jalalabad ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	64.7	242.9	364.3	291.5	35.0
Paddy	Husk	64.7	242.9	48.6	38.9	4.3
Others	Others	0.25	0.086	0.21	0.021	0.0028
<b>Total</b>		<b>64.9</b>	<b>243.0</b>	<b>413.1</b>	<b>330.4</b>	<b>39.3</b>

<b>Taluk level Residue-wise Data for Zira ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	6.4	23.9	35.8	28.6	3.4
Paddy	Husk	6.4	23.9	4.8	3.8	0.42
<b>Total</b>		<b>6.4</b>	<b>23.9</b>	<b>40.6</b>	<b>32.4</b>	<b>3.9</b>

<b>Taluk level Residue-wise Data for Batala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	56.8	167.2	250.8	200.7	24.1
Paddy	Husk	56.8	167.2	33.4	26.8	2.9
Maize	Stalks	3.4	7.0	14.1	2.8	0.37
Maize	Cobs	3.4	7.0	3.5	1.1	0.15
Others	Others	0.092	0.080	0.15	0.034	0.0044
<b>Total</b>		<b>60.3</b>	<b>174.3</b>	<b>302.0</b>	<b>231.3</b>	<b>27.5</b>

<b>Taluk level Residue-wise Data for Dera Baba Nanak ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	7.5	22.1	33.1	26.5	3.2
Paddy	Husk	7.5	22.1	4.4	3.5	0.39
Maize	Stalks	0.61	1.3	2.5	0.50	0.065
Others	Others	0	0	0.63	0.19	0.026
<b>Total</b>		<b>8.1</b>	<b>23.3</b>	<b>40.6</b>	<b>30.7</b>	<b>3.7</b>

<b>Taluk level Residue-wise Data for Dhar Kalan ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	5.9	17.4	26.1	20.9	2.5
Paddy	Husk	5.9	17.4	3.5	2.8	0.31
<b>Total</b>		<b>5.9</b>	<b>17.4</b>	<b>29.6</b>	<b>23.7</b>	<b>2.8</b>

<b>Taluk level Residue-wise Data for Gurdaspur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	86.9	255.8	383.7	307.0	36.8
Paddy	Husk	86.9	255.8	51.2	40.9	4.5
Maize	Stalks	6.7	13.8	27.5	5.5	0.72
Maize	Cobs	6.7	13.8	6.9	2.1	0.29
Others	Others	0.82	0.28	0.70	0.070	0.0091
<b>Total</b>		<b>94.4</b>	<b>269.8</b>	<b>469.9</b>	<b>355.5</b>	<b>42.4</b>

<b>Taluk level Residue-wise Data for Pathankot ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	37.0	108.8	163.3	130.6	15.7
Paddy	Husk	37.0	108.8	21.8	17.4	1.9
Maize	Stalks	2.2	4.6	9.2	1.8	0.24
Maize	Cobs	2.2	4.6	2.3	0.69	0.097
Others	Others	1.8	0.62	1.6	0.16	0.020
<b>Total</b>		<b>41.0</b>	<b>114.1</b>	<b>198.1</b>	<b>150.7</b>	<b>17.9</b>

<b>Taluk level Residue-wise Data for Dasua ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	8.0	22.7	34.0	27.2	3.3
Paddy	Husk	8.0	22.7	4.5	3.6	0.40
Others	Others	0.90	0.64	1.5	0.29	0.037
<b>Total</b>		<b>8.9</b>	<b>23.3</b>	<b>40.1</b>	<b>31.2</b>	<b>3.7</b>

<b>Taluk level Residue-wise Data for Garhshankar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	11.0	31.3	46.9	37.5	4.5
Maize	Stalks	11.8	34.4	68.8	13.8	1.8
Maize	Cobs	11.8	34.4	17.2	5.2	0.72
Paddy	Husk	11.0	31.3	6.3	5.0	0.55
Groundnut	Stalks	1.1	0.99	2.0	0.39	0.051
Others	Others	0.19	0.13	0.61	0.25	0.030
<b>Total</b>		<b>24.1</b>	<b>66.8</b>	<b>141.7</b>	<b>62.1</b>	<b>7.6</b>

<b>Taluk level Residue-wise Data for Hoshiarpur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Maize	Stalks	44.7	130.2	260.4	52.1	6.8
Paddy	Straw	7.2	20.5	30.7	24.5	2.9
Maize	Cobs	44.7	130.2	65.1	19.5	2.7
Paddy	Husk	7.2	20.5	4.1	3.3	0.36
Others	Others	0.52	0.45	0.97	0.25	0.031
<b>Total</b>		<b>52.4</b>	<b>151.1</b>	<b>361.2</b>	<b>99.7</b>	<b>12.8</b>

<b>Taluk level Residue-wise Data for Mukerian ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	34.3	97.8	146.7	117.3	14.1
Paddy	Husk	34.3	97.8	19.6	15.6	1.7
Maize	Stalks	8.8	25.7	51.3	10.3	1.3
Maize	Cobs	8.8	25.7	12.8	3.8	0.54
Others	Others	1.2	1.1	2.5	0.63	0.080
<b>Total</b>		<b>44.3</b>	<b>124.5</b>	<b>232.9</b>	<b>147.7</b>	<b>17.8</b>

<b>Taluk level Residue-wise Data for Jalandhar-I ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	24.5	82.4	123.6	98.9	11.9
Paddy	Husk	24.5	82.4	16.5	13.2	1.5
Maize	Stalks	3.9	11.8	23.7	4.7	0.62
Maize	Cobs	3.9	11.8	5.9	1.8	0.25
Others	Others	0.81	0.37	0.92	0.092	0.012
<b>Total</b>		<b>29.2</b>	<b>94.6</b>	<b>170.6</b>	<b>118.7</b>	<b>14.2</b>

<b>Taluk level Residue-wise Data for Jalandhar-Ii ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	10.9	36.8	55.2	44.2	5.3
Maize	Stalks	4.4	13.2	26.4	5.3	0.69
Paddy	Husk	10.9	36.8	7.4	5.9	0.65
Maize	Cobs	4.4	13.2	6.6	2.0	0.28
Others	Others	0.20	0.091	0.23	0.023	0.0030
<b>Total</b>		<b>15.5</b>	<b>50.1</b>	<b>95.8</b>	<b>57.3</b>	<b>6.9</b>

<b>Taluk level Residue-wise Data for Nakodar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	29.2	98.4	147.6	118.1	14.2
Paddy	Husk	29.2	98.4	19.7	15.7	1.7
Maize	Stalks	2.3	6.9	13.8	2.8	0.36
Maize	Cobs	2.3	6.9	3.4	1.0	0.14
Others	Others	0.15	0.070	0.17	0.017	0.0022
<b>Total</b>		<b>31.6</b>	<b>105.4</b>	<b>184.7</b>	<b>137.6</b>	<b>16.4</b>

<b>Taluk level Residue-wise Data for Phillaur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.1	202.3	303.5	242.8	29.1
Paddy	Husk	60.1	202.3	40.5	32.4	3.6
Maize	Stalks	3.8	11.6	23.2	4.6	0.60
Maize	Cobs	3.8	11.6	5.8	1.7	0.24
Others	Others	0.87	0.41	0.91	0.12	0.015
<b>Total</b>		<b>64.7</b>	<b>214.3</b>	<b>373.8</b>	<b>281.6</b>	<b>33.6</b>

<b>Taluk level Residue-wise Data for Shahkot ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	7.4	24.9	37.4	29.9	3.6
Paddy	Husk	7.4	24.9	5.0	4.0	0.44
Maize	Stalks	1.9	5.8	11.5	2.3	0.30
Maize	Cobs	1.9	5.8	2.9	0.87	0.12
<b>Total</b>		<b>9.3</b>	<b>30.7</b>	<b>56.8</b>	<b>37.0</b>	<b>4.4</b>

<b>Taluk level Residue-wise Data for Bhulath ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	2.8	9.8	14.7	11.7	1.4
Paddy	Husk	2.8	9.8	2.0	1.6	0.17
Others	Others	0.13	0.45	1.1	0.25	0.033
<b>Total</b>		<b>3.0</b>	<b>10.2</b>	<b>17.8</b>	<b>13.6</b>	<b>1.6</b>

<b>Taluk level Residue-wise Data for Kapurthala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	48.4	168.1	252.1	201.7	24.2
Paddy	Husk	48.4	168.1	33.6	26.9	3.0
Maize	Stalks	1.6	5.5	10.9	2.2	0.28
Maize	Cobs	1.6	5.5	2.7	0.82	0.11
Others	Others	0.55	0.24	0.53	0.071	0.0091
<b>Total</b>		<b>50.6</b>	<b>173.8</b>	<b>300.0</b>	<b>231.7</b>	<b>27.6</b>

<b>Taluk level Residue-wise Data for Phagwara ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.4	67.2	100.9	80.7	9.7
Paddy	Husk	19.4	67.2	13.4	10.8	1.2
Maize	Stalks	1.0	3.6	7.2	1.4	0.19
Maize	Cobs	1.0	3.6	1.8	0.54	0.075
Others	Others	5.00E-06	5.25E-06	1.21E-05	3.20E-06	4.05E-07
<b>Total</b>		<b>20.4</b>	<b>70.8</b>	<b>123.2</b>	<b>93.4</b>	<b>11.1</b>

<b>Taluk level Residue-wise Data for Sultanpur Lodhi ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	34.5	119.8	179.7	143.8	17.3
Paddy	Husk	34.5	119.8	24.0	19.2	2.1
Maize	Stalks	1.3	4.3	8.6	1.7	0.22
Maize	Cobs	1.3	4.3	2.1	0.64	0.090
Others	Others	0.0015	0.0016	0.0036	0.00095	0.00012
<b>Total</b>		<b>35.8</b>	<b>124.1</b>	<b>214.4</b>	<b>165.3</b>	<b>19.7</b>

<b>Taluk level Residue-wise Data for Jagraon ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	56.3	219.4	329.1	263.3	31.6
Paddy	Husk	56.3	219.4	43.9	35.1	3.9
Maize	Stalks	4.8	16.5	32.9	6.6	0.86
Maize	Cobs	4.8	16.5	8.2	2.5	0.35
Others	Others	0.97	0.43	0.54	0.055	0.0071
<b>Total</b>		<b>62.1</b>	<b>236.3</b>	<b>414.7</b>	<b>307.5</b>	<b>36.7</b>

<b>Taluk level Residue-wise Data for Khanna ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.5	75.9	113.9	91.1	10.9
Paddy	Husk	19.5	75.9	15.2	12.1	1.3
Others	Others	0.16	0.42	1.0	0.22	0.029
<b>Total</b>		<b>19.6</b>	<b>76.3</b>	<b>130.1</b>	<b>103.5</b>	<b>12.3</b>

<b>Taluk level Residue-wise Data for Ludhiana(East) ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	41.7	162.6	244.0	195.2	23.4
Paddy	Husk	41.7	162.6	32.5	26.0	2.9
Others	Others	0.71	0.73	1.5	0.29	0.039
<b>Total</b>		<b>42.4</b>	<b>163.4</b>	<b>278.0</b>	<b>221.5</b>	<b>26.3</b>

<b>Taluk level Residue-wise Data for Ludhiana(West) ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	28.7	111.9	167.9	134.3	16.1
Paddy	Husk	28.7	111.9	22.4	17.9	2.0
Others	Others	0.59	0.26	0.33	0.033	0.0043
<b>Total</b>		<b>29.3</b>	<b>112.2</b>	<b>190.6</b>	<b>152.3</b>	<b>18.1</b>

<b>Taluk level Residue-wise Data for Payal ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	26.2	102.1	153.1	122.5	14.7
Paddy	Husk	26.2	102.1	20.4	16.3	1.8
Others	Others	1.7	0.74	0.98	0.098	0.013
<b>Total</b>		<b>27.9</b>	<b>102.8</b>	<b>174.5</b>	<b>138.9</b>	<b>16.5</b>



<b>Taluk level Residue-wise Data for Raikot ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	27.1	105.6	158.4	126.7	15.2
Paddy	Husk	27.1	105.6	21.1	16.9	1.9
Others	Others	0.27	0.12	0.15	0.016	0.0020
<b>Total</b>		<b>27.4</b>	<b>105.7</b>	<b>179.7</b>	<b>143.6</b>	<b>17.1</b>

<b>Taluk level Residue-wise Data for Samrala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	35.6	138.8	208.2	166.6	20.0
Paddy	Husk	35.6	138.8	27.8	22.2	2.4
Others	Others	0.077	0.053	0.11	0.025	0.0031
<b>Total</b>		<b>35.7</b>	<b>138.8</b>	<b>236.1</b>	<b>188.8</b>	<b>22.4</b>

<b>Taluk level Residue-wise Data for Budhlada ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	9.0	31.9	47.9	38.3	4.6
Paddy	Husk	9.0	31.9	6.4	5.1	0.56
Others	Others	0.84	0.95	2.2	0.44	0.057
<b>Total</b>		<b>9.8</b>	<b>32.9</b>	<b>56.5</b>	<b>43.9</b>	<b>5.2</b>

<b>Taluk level Residue-wise Data for Mansa ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.7	70.0	105.0	84.0	10.1
Paddy	Husk	19.7	70.0	14.0	11.2	1.2
Others	Others	0.70	0.50	1.3	0.20	0.025
<b>Total</b>		<b>20.4</b>	<b>70.5</b>	<b>120.3</b>	<b>95.4</b>	<b>11.3</b>

<b>Taluk level Residue-wise Data for Sardulgarh ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	40.7	144.9	217.4	173.9	20.9
Paddy	Husk	40.7	144.9	29.0	23.2	2.6
Others	Others	1.2	1.7	4.1	0.79	0.10
<b>Total</b>		<b>41.9</b>	<b>146.6</b>	<b>250.5</b>	<b>197.9</b>	<b>23.5</b>

<b>Taluk level Residue-wise Data for Bagha Purana ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	8.0	30.6	45.9	36.7	4.4
Paddy	Husk	8.0	30.6	6.1	4.9	0.54
Maize	Stalks	0.41	1.1	2.2	0.45	0.058
Others	Others	0.63	0.33	0.98	0.21	0.029
<b>Total</b>		<b>9.1</b>	<b>32.0</b>	<b>55.2</b>	<b>42.2</b>	<b>5.0</b>

<b>Taluk level Residue-wise Data for Moga ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	104.0	396.1	594.2	475.3	57.0
Paddy	Husk	104.0	396.1	79.2	63.4	7.0
Others	Others	1.8	1.2	2.8	0.48	0.064
Maize	Stalks	0.37	1.0	2.0	0.41	0.053
<b>Total</b>		<b>106.3</b>	<b>398.3</b>	<b>678.2</b>	<b>539.6</b>	<b>64.1</b>

<b>Taluk level Residue-wise Data for Nihal Singhwala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	41.9	159.5	239.3	191.4	23.0
Paddy	Husk	41.9	159.5	31.9	25.5	2.8
Others	Others	1.6	1.4	2.9	0.52	0.068
<b>Total</b>		<b>43.5</b>	<b>161.0</b>	<b>274.2</b>	<b>217.5</b>	<b>25.8</b>

<b>Taluk level Residue-wise Data for Giddarbaha ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	11.1	40.7	61.0	48.8	5.9
Paddy	Husk	11.1	40.7	8.1	6.5	0.72
Others	Others	0.82	0.58	1.5	0.22	0.028
<b>Total</b>		<b>11.9</b>	<b>41.3</b>	<b>70.6</b>	<b>55.5</b>	<b>6.6</b>

<b>Taluk level Residue-wise Data for Malout ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	36.2	133.1	199.7	159.8	19.2
Paddy	Husk	36.2	133.1	26.6	21.3	2.3
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
Others	Others	1.3	0.67	2.3	0.41	0.056
<b>Total</b>		<b>38.0</b>	<b>135.1</b>	<b>231.2</b>	<b>182.0</b>	<b>21.6</b>

<b>Taluk level Residue-wise Data for Muktsar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.0	69.6	104.4	83.5	10.0
Paddy	Husk	19.0	69.6	13.9	11.1	1.2
Others	Others	1.6	1.1	1.5	0.17	0.022
<b>Total</b>		<b>20.6</b>	<b>70.7</b>	<b>119.9</b>	<b>94.9</b>	<b>11.3</b>

<b>Taluk level Residue-wise Data for Balachaur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	5.9	18.8	28.2	22.6	2.7
Maize	Stalks	5.2	14.7	29.5	5.9	0.77
Paddy	Husk	5.9	18.8	3.8	3.0	0.33
Maize	Cobs	5.2	14.7	7.4	2.2	0.31
Others	Others	0.090	0.058	0.10	0.022	0.0028
<b>Total</b>		<b>11.2</b>	<b>33.6</b>	<b>68.9</b>	<b>33.7</b>	<b>4.1</b>

<b>Taluk level Residue-wise Data for Nawanshahr ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	39.1	123.9	185.8	148.7	17.8
Paddy	Husk	39.1	123.9	24.8	19.8	2.2
Maize	Stalks	13.0	36.7	73.5	14.7	1.9
Maize	Cobs	13.0	36.7	18.4	5.5	0.77
Others	Others	0.10	0.035	0.087	0.0087	0.0011
<b>Total</b>		<b>52.2</b>	<b>160.6</b>	<b>302.5</b>	<b>188.7</b>	<b>22.7</b>

<b>Taluk level Residue-wise Data for Dera Bassi ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	32.8	118.8	178.2	142.5	17.1
Paddy	Husk	32.8	118.8	23.8	19.0	2.1
Others	Others	0.22	0.50	1.2	0.27	0.036
<b>Total</b>		<b>33.0</b>	<b>119.3</b>	<b>203.2</b>	<b>161.8</b>	<b>19.2</b>

<b>Taluk level Residue-wise Data for Nabha ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	33.0	119.5	179.3	143.4	17.2
Paddy	Husk	33.0	119.5	23.9	19.1	2.1
Others	Others	0.10	0.24	0.59	0.13	0.017
<b>Total</b>		<b>33.1</b>	<b>119.8</b>	<b>203.8</b>	<b>162.7</b>	<b>19.3</b>

<b>Taluk level Residue-wise Data for Patiala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	90.1	326.2	489.3	391.4	47.0
Paddy	Husk	90.1	326.2	65.2	52.2	5.7
Maize	Stalks	0.46	1.1	2.1	0.42	0.055
Others	Others	0	0	0.53	0.16	0.022
<b>Total</b>		<b>90.6</b>	<b>327.2</b>	<b>557.2</b>	<b>444.2</b>	<b>52.8</b>

<b>Taluk level Residue-wise Data for Rajpura ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.0	289.6	434.3	347.5	41.7
Paddy	Husk	80.0	289.6	57.9	46.3	5.1
Maize	Stalks	1.2	2.7	5.4	1.1	0.14
Maize	Cobs	1.2	2.7	1.3	0.40	0.056
Others	Others	0.028	0.018	0.023	0.0023	0.00030
<b>Total</b>		<b>81.2</b>	<b>292.3</b>	<b>499.0</b>	<b>395.3</b>	<b>47.0</b>

<b>Taluk level Residue-wise Data for Samana ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	15.0	54.4	81.7	65.3	7.8
Paddy	Husk	15.0	54.4	10.9	8.7	0.96
Others	Others	0.082	0.19	0.47	0.10	0.014
<b>Total</b>		<b>15.1</b>	<b>54.6</b>	<b>93.0</b>	<b>74.1</b>	<b>8.8</b>

<b>Taluk level Residue-wise Data for Anandpur Sahib ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	14.9	47.7	71.5	57.2	6.9
Maize	Stalks	8.0	18.2	36.4	7.3	0.95
Paddy	Husk	14.9	47.7	9.5	7.6	0.84
Maize	Cobs	8.0	18.2	9.1	2.7	0.38
Others	Others	0.49	0.39	1.0	0.17	0.022
<b>Total</b>		<b>23.4</b>	<b>66.3</b>	<b>127.6</b>	<b>75.0</b>	<b>9.1</b>

<b>Taluk level Residue-wise Data for Kharar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	10.1	32.3	48.4	38.7	4.6
Maize	Stalks	7.7	17.4	34.8	7.0	0.91
Paddy	Husk	10.1	32.3	6.5	5.2	0.57
Maize	Cobs	7.7	17.4	8.7	2.6	0.37
Others	Others	0.91	0.62	1.6	0.24	0.031
<b>Total</b>		<b>18.7</b>	<b>50.3</b>	<b>100.0</b>	<b>53.7</b>	<b>6.5</b>

<b>Taluk level Residue-wise Data for Rupnagar ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	24.4	77.9	116.8	93.4	11.2
Paddy	Husk	24.4	77.9	15.6	12.5	1.4
Maize	Stalks	11.3	25.6	51.3	10.3	1.3
Maize	Cobs	11.3	25.6	12.8	3.8	0.54
<b>Total</b>		<b>35.7</b>	<b>103.5</b>	<b>196.5</b>	<b>120.0</b>	<b>14.5</b>

<b>Taluk level Residue-wise Data for S.A.S.Nagar(Mohali) ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	2.0	6.4	9.7	7.7	0.93
Maize	Stalks	2.2	5.0	10.1	2.0	0.26
Paddy	Husk	2.0	6.4	1.3	1.0	0.11
Maize	Cobs	2.2	5.0	2.5	0.76	0.11
<b>Total</b>		<b>4.2</b>	<b>11.5</b>	<b>23.6</b>	<b>11.5</b>	<b>1.4</b>

<b>Taluk level Residue-wise Data for Barnala ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	109.0	425.2	637.8	510.2	61.2
Paddy	Husk	109.0	425.2	85.0	68.0	7.5
Others	Others	3.8	3.2	6.9	1.1	0.14
<b>Total</b>		<b>112.8</b>	<b>428.4</b>	<b>729.7</b>	<b>579.4</b>	<b>68.9</b>

<b>Taluk level Residue-wise Data for Dhuri ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	25.3	98.8	148.1	118.5	14.2
Paddy	Husk	25.3	98.8	19.8	15.8	1.7
Maize	Stalks	2.0	5.4	10.8	2.2	0.28
Maize	Cobs	2.0	5.4	2.7	0.81	0.11
Others	Others	0.0051	0.0040	0.0093	0.0025	0.00031
<b>Total</b>		<b>27.3</b>	<b>104.2</b>	<b>181.4</b>	<b>137.3</b>	<b>16.4</b>

<b>Taluk level Residue-wise Data for Malerkotla ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	42.1	164.4	246.6	197.3	23.7
Paddy	Husk	42.1	164.4	32.9	26.3	2.9
Others	Others	0.14	0.12	0.31	0.061	0.0077
<b>Total</b>		<b>42.3</b>	<b>164.5</b>	<b>279.8</b>	<b>223.7</b>	<b>26.6</b>

<b>Taluk level Residue-wise Data for Moonak ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.1	234.6	351.8	281.5	33.8
Paddy	Husk	60.1	234.6	46.9	37.5	4.1
<b>Total</b>		<b>60.1</b>	<b>234.6</b>	<b>398.8</b>	<b>319.0</b>	<b>37.9</b>

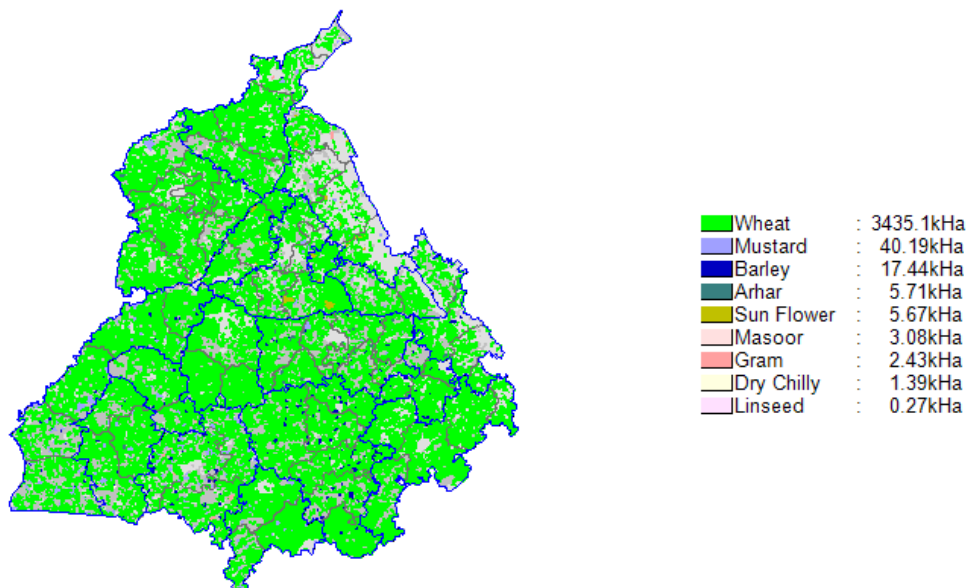
<b>Taluk level Residue-wise Data for Sangrur ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	58.7	228.9	343.3	274.7	33.0
Paddy	Husk	58.7	228.9	45.8	36.6	4.0
Others	Others	1.7	1.2	1.6	0.16	0.020
<b>Total</b>		<b>60.4</b>	<b>230.1</b>	<b>390.7</b>	<b>311.4</b>	<b>37.0</b>

<b>Taluk level Residue-wise Data for Sunam ; Season : Kharif</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.5	236.2	354.3	283.4	34.0
Paddy	Husk	60.5	236.2	47.2	37.8	4.2
Others	Others	0.50	0.46	0.78	0.12	0.016
<b>Total</b>		<b>61.0</b>	<b>236.6</b>	<b>402.3</b>	<b>321.3</b>	<b>38.2</b>



## Rabi

### Punjab-Rabi



### State Level Residue Wise

State level Residue-wise Data for Punjab; Season : Rabi						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	3435.1	15568.9	23353.3	4670.7	607.2
Wheat	Pod	3435.1	15568.9	4670.7	2335.3	326.9
Mustard	Stalks	40.2	49.0	88.1	44.1	5.7
Mustard	Husk	40.2	49.0	44.1	41.9	5.0
Barley	Stalks	17.4	60.5	78.7	7.9	1.0
Arhar	Stalks	5.7	4.8	11.9	3.6	0.46
Sunflower	Stalks	5.7	8.1	16.3	3.3	0.42
Gram	Stalks	2.4	1.9	2.0	1.8	0.24
Others	Others	4.8	3.2	6.7	0.67	0.086
<b>Total</b>		<b>3511.3</b>	<b>15696.3</b>	<b>28271.8</b>	<b>7109.1</b>	<b>947.1</b>

## State Level District Wise

<b>State level District-wise Data for Punjab ; Season : Rabi</b>					
<b>District</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sangrur	397.9	1914.7	3434.6	854.0	113.9
Ferozpur	395.8	1679.7	3034.7	773.7	102.9
Amritsar	369.5	1706.1	3073.9	771.4	102.8
Patiala	270.0	1334.8	2402.6	600.6	80.1
Ludhiana	265.1	1321.8	2380.7	597.4	79.6
Gurdaspur	222.5	1017.8	1834.6	462.5	61.6
Bathinda	254.3	966.9	1744.0	444.3	59.1
Muksar	202.8	846.3	1521.8	382.7	51.0
Jalandhar	173.5	794.5	1434.1	361.4	48.1
Moga	167.0	778.9	1402.0	350.5	46.7
Mansa	168.7	675.3	1217.8	307.2	40.9
Kapurthala	116.1	541.3	975.7	244.9	32.6
Hoshiarpur	144.9	511.2	922.6	233.2	31.1
Faridkot	113.7	503.8	907.7	228.8	30.5
Fatehgarh Sahib	85.9	421.9	757.7	188.8	25.2
Rupnagar	92.2	356.7	642.7	161.4	21.5
Nawanshahr	71.3	324.7	584.7	146.4	19.5
<b>Total</b>	<b>3511.3</b>	<b>15696.3</b>	<b>28271.8</b>	<b>7109.1</b>	<b>947.1</b>

## State Level Taluk Wise

<b>State level Taluk-wise Data for Haryana ; Season : Rabi</b>						
<b>District</b>	<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sirsa	Sirsa	249.2	977.9	1767.7	348.0	45.8
Hisar	Hisar	180.9	773.9	1394.0	278.9	36.7
Karnal	Karnal	145.9	663.3	1194.3	240.3	31.6
Bhiwani	Dadri	119.2	184.9	416.0	236.8	30.0
Jind	Narwana	124.5	520.7	942.5	195.4	25.7
Mahendragarh	Mahendragarh	89.8	108.5	275.9	199.0	25.1
Kaithal	Kaithal	115.2	517.4	930.3	186.1	24.5

District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Fatehabad	Fatehabad	116.8	493.5	891.1	179.5	23.6
Rewari	Rewari	85.6	283.1	548.9	178.1	22.9
Panipat	Panipat	83.7	392.3	706.9	141.2	18.6
Bhiwani	Bhiwani	98.6	198.9	392.8	129.7	16.6
Jhajjar	Jhajjar	89.0	333.2	601.6	119.5	15.7
Kurukshetra	Thanesar	71.2	329.3	591.9	118.3	15.6
Rohtak	Rohtak	82.4	267.2	488.4	112.5	14.7
Gurgaon	Gurgaon	72.7	239.9	442.5	108.1	14.1
Sonipat	Gohana	73.5	280.2	507.7	107.1	14.1
Faridabad	Palwal	63.4	246.1	444.7	90.7	11.9
Yamunanagar	Jagadiri	66.4	236.3	426.0	87.2	11.5
Fatehabad	Tohana	56.3	223.3	406.0	83.6	11.0
Jind	Jind	52.1	217.6	392.7	78.0	10.3
Ambala	Ambala	58.9	195.3	352.0	72.6	9.5
Rewari	Kosli	57.4	102.2	222.8	76.1	9.5
Sonipat	Sonipat	51.9	199.7	360.3	72.3	9.5
Rewari	Bawal	17.6	31.3	83.4	68.9	8.7
Gurgaon	Nuh	46.3	156.1	285.7	65.7	8.6
Bhiwani	Loharu	58.1	172.5	313.3	65.0	8.5
Kurukshetra	Pehowa	39.1	180.0	323.5	64.6	8.5
Faridabad	Ballabgarh	44.7	174.7	314.0	64.5	8.5
Jind	Safidon	38.6	164.1	296.5	60.9	8.0
Gurgaon	Pataudi	21.1	39.7	93.6	61.4	7.8
Kaithal	Gulha	34.2	153.5	275.9	55.2	7.3
Faridabad	Hathin	35.6	136.9	248.3	54.8	7.2
Bhiwani	Siwani	50.0	121.5	226.9	54.8	7.1
Rohtak	Maham	36.8	124.7	228.2	52.6	6.9
Gurgaon	Firozpur Jhirka	31.4	97.7	183.2	49.6	6.4
Mahendragarh	Narnaul	76.8	117.7	234.0	49.2	6.2
Karnal	Asandh	23.6	109.2	196.4	39.3	5.2
Sonipat	Ganaur	22.2	86.8	156.6	31.9	4.2
Fatehabad	Ratia	17.9	66.5	123.9	32.0	4.2
Ambala	Narayangarh	24.9	85.1	153.4	30.6	4.0
Jhajjar	Bahadurgarh	23.7	80.4	146.4	27.9	3.7
Hisar	Hansi	17.7	75.7	136.4	27.4	3.6
Sirsa	Dabwali	20.6	71.2	129.7	24.5	3.2

District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Bhiwani	Bawani Khera	50.5	70.2	137.9	19.0	2.4
Panchkula	Kalka	10.0	26.6	47.9	9.6	1.3
<b>Total</b>		<b>2946.0</b>	<b>10326.6</b>	<b>19032.0</b>	<b>4448.1</b>	<b>579.6</b>

## District Level Residue Wise

<b>District level Residue-wise Data for Amritsar; Season : Rabi</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	363.0	1700.0	2550.1	510.0	66.3
Wheat	Pod	363.0	1700.0	510.0	255.0	35.7
Mustard	Stalks	2.6	2.7	4.8	2.4	0.31
Mustard	Husk	2.6	2.7	2.4	2.3	0.27
Arhar	Stalks	1.4	1.2	3.0	0.90	0.12
Gram	Stalks	0.51	0.44	0.49	0.44	0.057
Others	Others	1.9	1.7	3.2	0.36	0.047
<b>Total</b>		<b>369.5</b>	<b>1706.1</b>	<b>3073.9</b>	<b>771.4</b>	<b>102.8</b>

<b>District level Residue-wise Data for Bathinda; Season : Rabi</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	243.0	949.1	1423.6	284.7	37.0
Wheat	Pod	243.0	949.1	284.7	142.4	19.9
Mustard	Stalks	7.3	8.9	16.1	8.0	1.0
Mustard	Husk	7.3	8.9	8.0	7.6	0.92
Barley	Stalks	3.0	8.5	11.0	1.1	0.14
Others	Others	0.85	0.46	0.58	0.40	0.052
<b>Total</b>		<b>254.3</b>	<b>966.9</b>	<b>1744.0</b>	<b>444.3</b>	<b>59.1</b>

<b>District level Residue-wise Data for Faridkot; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	112.0	500.3	750.5	150.1	19.5
Wheat	Pod	112.0	500.3	150.1	75.0	10.5
Mustard	Stalks	1.2	1.9	3.4	1.7	0.22
Mustard	Husk	1.2	1.9	1.7	1.6	0.20
Others	Others	0.55	1.5	2.0	0.28	0.037
<b>Total</b>		<b>113.7</b>	<b>503.8</b>	<b>907.7</b>	<b>228.8</b>	<b>30.5</b>

<b>District level Residue-wise Data for Fatehgarh Sahib; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	85.0	418.7	628.0	125.6	16.3
Wheat	Pod	85.0	418.7	125.6	62.8	8.8
Barley	Stalks	0.94	3.2	4.2	0.42	0.054
<b>Total</b>		<b>85.9</b>	<b>421.9</b>	<b>757.7</b>	<b>188.8</b>	<b>25.2</b>

<b>District level Residue-wise Data for Firozpur; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	383.1	1661.0	2491.6	498.3	64.8
Wheat	Pod	383.1	1661.0	498.3	249.2	34.9
Mustard	Stalks	11.4	14.7	26.4	13.2	1.7
Mustard	Husk	11.4	14.7	13.2	12.5	1.5
Barley	Stalks	1.3	4.0	5.2	0.52	0.068
<b>Total</b>		<b>395.8</b>	<b>1679.7</b>	<b>3034.7</b>	<b>773.7</b>	<b>102.9</b>

<b>District level Residue-wise Data for Gurdaspur; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	217.2	1012.1	1518.1	303.6	39.5
Wheat	Pod	217.2	1012.1	303.6	151.8	21.3
Mustard	Stalks	3.5	3.7	6.6	3.3	0.43
Mustard	Husk	3.5	3.7	3.3	3.1	0.38
Others	Others	1.8	2.1	3.0	0.61	0.079
<b>Total</b>		<b>222.5</b>	<b>1017.8</b>	<b>1834.6</b>	<b>462.5</b>	<b>61.6</b>

<b>District level Residue-wise Data for Hoshiarpur; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	139.9	505.8	758.6	151.7	19.7
Wheat	Pod	139.9	505.8	151.7	75.9	10.6
Mustard	Stalks	2.5	2.5	4.6	2.3	0.30
Mustard	Husk	2.5	2.5	2.3	2.2	0.26
Sunflower	Stalks	1.2	2.0	3.9	0.78	0.10
Others	Others	1.2	0.94	1.5	0.37	0.048
<b>Total</b>		<b>144.9</b>	<b>511.2</b>	<b>922.6</b>	<b>233.2</b>	<b>31.1</b>

<b>District level Residue-wise Data for Jalandhar; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	167.2	786.4	1179.6	235.9	30.7
Wheat	Pod	167.2	786.4	235.9	118.0	16.5
Mustard	Stalks	2.1	3.0	5.3	2.7	0.35
Mustard	Husk	2.1	3.0	2.7	2.5	0.30
Sunflower	Stalks	2.6	3.6	7.1	1.4	0.19
Arhar	Stalks	1.0	0.92	2.3	0.69	0.089
Others	Others	0.55	0.56	1.1	0.18	0.023
<b>Total</b>		<b>173.5</b>	<b>794.5</b>	<b>1434.1</b>	<b>361.4</b>	<b>48.1</b>

<b>District level Residue-wise Data for Kapurthala; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	114.0	538.3	807.5	161.5	21.0
Wheat	Pod	114.0	538.3	161.5	80.7	11.3
Mustard	Stalks	0.82	1.1	1.9	0.95	0.12
Mustard	Husk	0.82	1.1	0.95	0.90	0.11
Sunflower	Stalks	1.3	1.9	3.8	0.76	0.099
<b>Total</b>		<b>116.1</b>	<b>541.3</b>	<b>975.7</b>	<b>244.9</b>	<b>32.6</b>

<b>District level Residue-wise Data for Ludhiana; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	258.2	1309.7	1964.5	392.9	51.1
Wheat	Pod	258.2	1309.7	392.9	196.5	27.5
Mustard	Stalks	2.3	3.2	5.7	2.9	0.37
Mustard	Husk	2.3	3.2	2.9	2.7	0.33
Arhar	Stalks	2.3	1.9	4.6	1.4	0.18
Barley	Stalks	2.0	6.7	8.7	0.87	0.11
Others	Others	0.29	0.40	1.3	0.21	0.027
<b>Total</b>		<b>265.1</b>	<b>1321.8</b>	<b>2380.7</b>	<b>597.4</b>	<b>79.6</b>

<b>District level Residue-wise Data for Mansa; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	166.3	672.6	1008.8	201.8	26.2
Wheat	Pod	166.3	672.6	201.8	100.9	14.1
Mustard	Stalks	2.4	2.6	4.7	2.3	0.30
Mustard	Husk	2.4	2.6	2.3	2.2	0.27
Others	Others	0.055	0.14	0.18	0.018	0.0024
<b>Total</b>		<b>168.7</b>	<b>675.3</b>	<b>1217.8</b>	<b>307.2</b>	<b>40.9</b>

<b>District level Residue-wise Data for Moga; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	167.0	778.9	1168.4	233.7	30.4
Wheat	Pod	167.0	778.9	233.7	116.8	16.4
Others	Others	0.00025	0.00034	0.00092	0.00060	7.49E-05
<b>Total</b>		<b>167.0</b>	<b>778.9</b>	<b>1402.0</b>	<b>350.5</b>	<b>46.7</b>

<b>District level Residue-wise Data for Muktsar; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	196.5	832.7	1249.1	249.8	32.5
Wheat	Pod	196.5	832.7	249.8	124.9	17.5
Mustard	Stalks	2.6	3.6	6.4	3.2	0.42
Mustard	Husk	2.6	3.6	3.2	3.0	0.37
Barley	Stalks	3.0	9.3	12.2	1.2	0.16
Others	Others	0.73	0.65	1.1	0.48	0.063
<b>Total</b>		<b>202.8</b>	<b>846.3</b>	<b>1521.8</b>	<b>382.7</b>	<b>51.0</b>

<b>District level Residue-wise Data for Nawanshahr; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	71.1	324.5	486.8	97.4	12.7
Wheat	Pod	71.1	324.5	97.4	48.7	6.8
Others	Others	0.18	0.19	0.51	0.33	0.041
<b>Total</b>		<b>71.3</b>	<b>324.7</b>	<b>584.7</b>	<b>146.4</b>	<b>19.5</b>

<b>District level Residue-wise Data for Patiala; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	270.0	1334.7	2002.1	400.4	52.1
Wheat	Pod	270.0	1334.7	400.4	200.2	28.0
Others	Others	0.0054	0.023	0.030	0.0030	0.00040
<b>Total</b>		<b>270.0</b>	<b>1334.8</b>	<b>2402.6</b>	<b>600.6</b>	<b>80.1</b>



<b>District level Residue-wise Data for Rupnagar; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	89.6	353.3	529.9	106.0	13.8
Wheat	Pod	89.6	353.3	106.0	53.0	7.4
Mustard	Stalks	1.1	1.0	1.8	0.90	0.12
Mustard	Husk	1.1	1.0	0.90	0.86	0.10
Others	Others	1.5	2.5	4.1	0.64	0.083
<b>Total</b>		<b>92.2</b>	<b>356.7</b>	<b>642.7</b>	<b>161.4</b>	<b>21.5</b>

<b>District level Residue-wise Data for Sangrur; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	392.1	1890.7	2836.1	567.2	73.7
Wheat	Pod	392.1	1890.7	567.2	283.6	39.7
Barley	Stalks	5.8	23.9	31.1	3.1	0.40
Others	Others	0.057	0.061	0.17	0.092	0.012
<b>Total</b>		<b>397.9</b>	<b>1914.7</b>	<b>3434.6</b>	<b>854.0</b>	<b>113.9</b>

## District Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Amritsar ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Tarn-Taran	91.1	425.0	765.0	191.3	25.5
Patti	89.3	416.7	749.9	187.5	25.0
Ajnala	61.8	282.2	509.6	129.1	17.2
Amritsar-Ii	44.5	201.9	364.5	92.1	12.3
Baba Bakala	39.3	180.0	324.2	81.1	10.8
Amritsar-I	35.7	165.0	297.4	74.4	9.9
Khadur Sahib	7.6	35.2	63.3	15.8	2.1
<b>Total</b>		<b>369.5</b>	<b>1706.1</b>	<b>3073.9</b>	<b>771.4</b>

<b>DistrictLevel Taluk-wise Data for Bathinda ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Bathinda	95.9	363.3	654.4	166.6	22.2
Talwandi Sabo	83.5	319.4	575.7	145.8	19.4
Rampura Phul	74.9	284.2	513.9	131.8	17.5
<b>Total</b>		<b>254.3</b>	<b>966.9</b>	<b>1744.0</b>	<b>444.3</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Faridkot	80.1	354.5	638.8	161.2	21.5
Jaitu	33.6	149.2	268.9	67.6	9.0
<b>Total</b>		<b>113.7</b>	<b>503.8</b>	<b>907.7</b>	<b>228.8</b>

<b>DistrictLevel Taluk-wise Data for Fatehgarh Sahib ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Fatehgarh Sahib	47.9	235.6	423.7	105.7	14.1
Amloh	20.2	99.1	177.8	44.2	5.9
Bassi Pathana	15.5	75.9	136.3	34.0	4.5
Khamanon	2.3	11.2	19.9	4.8	0.64
<b>Total</b>		<b>85.9</b>	<b>421.9</b>	<b>757.7</b>	<b>188.8</b>

<b>DistrictLevel Taluk-wise Data for Firozpur ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Firozpur	115.0	493.5	889.9	224.6	29.9
Jalalabad	93.0	396.2	715.5	181.9	24.2
Abohar	76.6	315.4	573.0	150.2	19.9
Zira	55.7	240.8	433.5	108.6	14.5
Fazilka	55.6	233.8	422.7	108.4	14.4
<b>Total</b>		<b>395.8</b>	<b>1679.7</b>	<b>3034.7</b>	<b>773.7</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Gurdaspur	109.4	503.3	906.7	228.1	30.4
Batala	49.7	226.6	408.7	103.0	13.7
Pathankot	30.4	135.8	245.0	62.5	8.3
Dera Baba Nanak	29.4	135.7	244.5	61.4	8.2
Dhar Kalan	3.6	16.5	29.6	7.4	0.99
<b>Total</b>		<b>222.5</b>	<b>1017.8</b>	<b>1834.6</b>	<b>462.5</b>

<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Hoshiarpur	54.8	195.9	353.2	88.9	11.8
Mukerian	39.6	139.2	251.3	63.9	8.5
Dasua	33.3	118.0	213.2	54.1	7.2
Garhshankar	17.1	58.0	104.9	26.3	3.5
<b>Total</b>		<b>144.9</b>	<b>511.2</b>	<b>922.6</b>	<b>233.2</b>

<b>DistrictLevel Taluk-wise Data for Jalandhar ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Phyllaur	60.3	273.4	493.2	123.4	16.4
Nakodar	35.6	164.9	297.3	75.1	10.0
Jalandhar-I	33.8	152.4	276.3	70.5	9.4
Shahkot	31.5	147.4	265.4	66.4	8.8
Jalandhar-Ii	12.2	56.3	101.9	26.0	3.5
<b>Total</b>		<b>173.5</b>	<b>794.5</b>	<b>1434.1</b>	<b>361.4</b>

<b>DistrictLevel Taluk-wise Data for Kapurthala ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Kapurthala	51.7	240.3	433.2	108.6	14.5
Phagwara	24.0	111.6	201.1	50.3	6.7
Sultanpur Lodhi	20.6	96.1	173.3	43.7	5.8
Bhulath	19.9	93.3	168.1	42.3	5.6
<b>Total</b>		<b>116.1</b>	<b>541.3</b>	<b>975.7</b>	<b>244.9</b>

<b>DistrictLevel Taluk-wise Data for Ludhiana ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jagraon	66.0	329.5	593.9	149.0	19.9
Ludhiana(East)	46.5	232.5	418.8	105.2	14.0
Samrala	41.7	209.4	376.8	94.4	12.6
Payal	35.9	180.2	324.3	81.3	10.8
Ludhiana(West)	33.1	162.0	291.6	73.5	9.8
Raikot	29.6	146.9	264.6	66.2	8.8
Khanna	12.4	61.4	110.6	27.9	3.7
<b>Total</b>		<b>265.1</b>	<b>1321.8</b>	<b>2380.7</b>	<b>597.4</b>

<b>DistrictLevel Taluk-wise Data for Mansa ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Mansa	76.6	307.0	553.5	139.5	18.6
Budhlada	71.8	288.5	520.0	130.8	17.4
Sardulgarh	20.2	79.8	144.3	36.9	4.9
<b>Total</b>		<b>168.7</b>	<b>675.3</b>	<b>1217.8</b>	<b>307.2</b>

<b>DistrictLevel Taluk-wise Data for Moga ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Bagha Purana	62.8	293.0	527.3	131.8	17.6
Moga	55.4	258.6	465.5	116.4	15.5
Nihal Singhwala	48.7	227.3	409.2	102.3	13.6
<b>Total</b>		<b>167.0</b>	<b>778.9</b>	<b>1402.0</b>	<b>350.5</b>

<b>DistrictLevel Taluk-wise Data for Muktsar ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Malout	83.9	350.5	631.3	159.3	21.2
Giddarbaha	77.5	322.9	579.7	145.2	19.3
Muksar	41.5	172.9	310.8	78.2	10.4
<b>Total</b>		<b>202.8</b>	<b>846.3</b>	<b>1521.8</b>	<b>382.7</b>

<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nawanshahr	45.2	205.9	370.7	92.8	12.4
Balachaur	26.1	118.8	214.0	53.6	7.1
<b>Total</b>		<b>71.3</b>	<b>324.7</b>	<b>584.7</b>	<b>146.4</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Patiala	94.9	469.1	844.4	211.1	28.1
Rajpura	74.0	365.6	658.1	164.5	21.9
Samana	44.1	218.2	392.8	98.2	13.1
Nabha	36.1	178.3	321.0	80.2	10.7
Dera Bassi	20.9	103.5	186.3	46.6	6.2
<b>Total</b>		<b>270.0</b>	<b>1334.8</b>	<b>2402.6</b>	<b>600.6</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Rupnagar	39.9	152.5	274.7	69.0	9.2
Anandpur Sahib	22.0	86.0	155.0	38.9	5.2
Kharar	19.0	74.0	133.4	33.5	4.5
S.A.S.Nagar(Mohali)	11.4	44.2	79.6	20.0	2.7
<b>Total</b>		<b>92.2</b>	<b>356.7</b>	<b>642.7</b>	<b>161.4</b>

<b>DistrictLevel Taluk-wise Data for Sangrur ; Season : Rabi</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Barnala	124.2	597.7	1072.6	266.9	35.6
Sangrur	79.6	382.2	684.5	169.8	22.6
Moonak	61.2	295.2	530.9	132.6	17.7
Dhuri	52.5	252.4	452.7	112.5	15.0
Malerkotla	52.1	250.8	450.0	111.9	14.9
Sunam	28.4	136.4	243.8	60.3	8.0
<b>Total</b>		<b>397.9</b>	<b>1914.7</b>	<b>3434.6</b>	<b>854.0</b>

### Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Ajnala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	59.9	280.3	420.4	84.1	10.9
Wheat	Pod	59.9	280.3	84.1	42.0	5.9
Mustard	Stalks	1.5	1.5	2.7	1.3	0.17
Mustard	Husk	1.5	1.5	1.3	1.3	0.15
Others	Others	0.53	0.45	1.1	0.35	0.045
<b>Total</b>		<b>61.8</b>	<b>282.2</b>	<b>509.6</b>	<b>129.1</b>	<b>17.2</b>

<b>Taluk level Residue-wise Data for Amritsar-I ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	35.1	164.3	246.5	49.3	6.4
Wheat	Pod	35.1	164.3	49.3	24.7	3.5
Others	Others	0.66	0.71	1.6	0.44	0.058
<b>Total</b>		<b>35.7</b>	<b>165.0</b>	<b>297.4</b>	<b>74.4</b>	<b>9.9</b>

<b>Taluk level Residue-wise Data for Amritsar-Ii ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	42.8	200.2	300.3	60.1	7.8
Wheat	Pod	42.8	200.2	60.1	30.0	4.2
Mustard	Stalks	0.97	1.00	1.8	0.90	0.12
Mustard	Husk	0.97	1.00	0.90	0.85	0.10
Others	Others	0.77	0.67	1.4	0.30	0.038
<b>Total</b>		<b>44.5</b>	<b>201.9</b>	<b>364.5</b>	<b>92.1</b>	<b>12.3</b>

<b>Taluk level Residue-wise Data for Baba Bakala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	38.3	179.2	268.8	53.8	7.0
Wheat	Pod	38.3	179.2	53.8	26.9	3.8
Others	Others	1.0	0.84	1.7	0.50	0.063
<b>Total</b>		<b>39.3</b>	<b>180.0</b>	<b>324.2</b>	<b>81.1</b>	<b>10.8</b>

<b>Taluk level Residue-wise Data for Khadur Sahib ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	7.5	35.1	52.6	10.5	1.4
Wheat	Pod	7.5	35.1	10.5	5.3	0.74
Others	Others	0.12	0.11	0.14	0.057	0.0074
<b>Total</b>		<b>7.6</b>	<b>35.2</b>	<b>63.3</b>	<b>15.8</b>	<b>2.1</b>

<b>Taluk level Residue-wise Data for Patti ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	88.9	416.3	624.5	124.9	16.2
Wheat	Pod	88.9	416.3	124.9	62.4	8.7
Others	Others	0.43	0.34	0.50	0.13	0.017
<b>Total</b>		<b>89.3</b>	<b>416.7</b>	<b>749.9</b>	<b>187.5</b>	<b>25.0</b>

<b>Taluk level Residue-wise Data for Tarn-Taran ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	90.7	424.6	636.9	127.4	16.6
Wheat	Pod	90.7	424.6	127.4	63.7	8.9
Others	Others	0.47	0.44	0.73	0.25	0.032
<b>Total</b>		<b>91.1</b>	<b>425.0</b>	<b>765.0</b>	<b>191.3</b>	<b>25.5</b>

<b>Taluk level Residue-wise Data for Bathinda ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	90.6	353.8	530.8	106.2	13.8
Wheat	Pod	90.6	353.8	106.2	53.1	7.4
Mustard	Stalks	3.1	3.7	6.7	3.4	0.44
Mustard	Husk	3.1	3.7	3.4	3.2	0.38
Barley	Stalks	2.0	5.6	7.2	0.72	0.094
Others	Others	0.27	0.14	0.18	0.12	0.015
<b>Total</b>		<b>95.9</b>	<b>363.3</b>	<b>654.4</b>	<b>166.6</b>	<b>22.2</b>

<b>Taluk level Residue-wise Data for Rampura Phul ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	71.6	279.7	419.6	83.9	10.9
Wheat	Pod	71.6	279.7	83.9	42.0	5.9
Mustard	Stalks	2.7	3.3	5.9	3.0	0.38
Mustard	Husk	2.7	3.3	3.0	2.8	0.34
Others	Others	0.54	1.2	1.6	0.20	0.026
<b>Total</b>		<b>74.9</b>	<b>284.2</b>	<b>513.9</b>	<b>131.8</b>	<b>17.5</b>



<b>Taluk level Residue-wise Data for Talwandi Sabo ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	80.8	315.5	473.3	94.7	12.3
Wheat	Pod	80.8	315.5	94.7	47.3	6.6
Mustard	Stalks	1.6	1.9	3.5	1.7	0.22
Mustard	Husk	1.6	1.9	1.7	1.6	0.20
Others	Others	1.1	2.0	2.6	0.46	0.060
<b>Total</b>		<b>83.5</b>	<b>319.4</b>	<b>575.7</b>	<b>145.8</b>	<b>19.4</b>

<b>Taluk level Residue-wise Data for Faridkot ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	78.7	351.6	527.4	105.5	13.7
Wheat	Pod	78.7	351.6	105.5	52.7	7.4
Mustard	Stalks	0.97	1.5	2.8	1.4	0.18
Mustard	Husk	0.97	1.5	1.4	1.3	0.16
Others	Others	0.48	1.4	1.8	0.23	0.030
<b>Total</b>		<b>80.1</b>	<b>354.5</b>	<b>638.8</b>	<b>161.2</b>	<b>21.5</b>

<b>Taluk level Residue-wise Data for Jaitu ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	33.3	148.7	223.0	44.6	5.8
Wheat	Pod	33.3	148.7	44.6	22.3	3.1
Others	Others	0.31	0.55	1.2	0.70	0.088
<b>Total</b>		<b>33.6</b>	<b>149.2</b>	<b>268.9</b>	<b>67.6</b>	<b>9.0</b>

<b>Taluk level Residue-wise Data for Amlah ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	19.9	98.0	147.0	29.4	3.8
Wheat	Pod	19.9	98.0	29.4	14.7	2.1
Others	Others	0.33	1.1	1.5	0.15	0.019
<b>Total</b>		<b>20.2</b>	<b>99.1</b>	<b>177.8</b>	<b>44.2</b>	<b>5.9</b>

<b>Taluk level Residue-wise Data for Bassi Pathana ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	15.3	75.4	113.1	22.6	2.9
Wheat	Pod	15.3	75.4	22.6	11.3	1.6
Others	Others	0.14	0.48	0.62	0.062	0.0081
<b>Total</b>		<b>15.5</b>	<b>75.9</b>	<b>136.3</b>	<b>34.0</b>	<b>4.5</b>

<b>Taluk level Residue-wise Data for Fatehgarh Sahib ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	47.7	234.7	352.1	70.4	9.2
Wheat	Pod	47.7	234.7	70.4	35.2	4.9
Others	Others	0.28	0.95	1.2	0.12	0.016
<b>Total</b>		<b>47.9</b>	<b>235.6</b>	<b>423.7</b>	<b>105.7</b>	<b>14.1</b>

<b>Taluk level Residue-wise Data for Khamanon ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	2.1	10.6	15.9	3.2	0.41
Wheat	Pod	2.1	10.6	3.2	1.6	0.22
Others	Others	0.19	0.64	0.84	0.084	0.011
<b>Total</b>		<b>2.3</b>	<b>11.2</b>	<b>19.9</b>	<b>4.8</b>	<b>0.64</b>

<b>Taluk level Residue-wise Data for Abohar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	70.8	307.2	460.8	92.2	12.0
Wheat	Pod	70.8	307.2	92.2	46.1	6.5
Mustard	Stalks	5.2	6.7	12.1	6.0	0.79
Mustard	Husk	5.2	6.7	6.0	5.7	0.69
Others	Others	0.48	1.5	1.9	0.19	0.025
<b>Total</b>		<b>76.6</b>	<b>315.4</b>	<b>573.0</b>	<b>150.2</b>	<b>19.9</b>

<b>Taluk level Residue-wise Data for Fazilka ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	53.0	229.8	344.6	68.9	9.0
Wheat	Pod	53.0	229.8	68.9	34.5	4.8
Mustard	Stalks	2.1	2.8	5.0	2.5	0.32
Mustard	Husk	2.1	2.8	2.5	2.4	0.28
Others	Others	0.43	1.3	1.7	0.17	0.022
<b>Total</b>		<b>55.6</b>	<b>233.8</b>	<b>422.7</b>	<b>108.4</b>	<b>14.4</b>

<b>Taluk level Residue-wise Data for Firozpur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	113.2	490.9	736.4	147.3	19.1
Wheat	Pod	113.2	490.9	147.3	73.6	10.3
Mustard	Stalks	1.6	2.1	3.7	1.9	0.24
Mustard	Husk	1.6	2.1	1.9	1.8	0.21
Others	Others	0.17	0.50	0.65	0.065	0.0085
<b>Total</b>		<b>115.0</b>	<b>493.5</b>	<b>889.9</b>	<b>224.6</b>	<b>29.9</b>

<b>Taluk level Residue-wise Data for Jalalabad ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	90.6	393.0	589.5	117.9	15.3
Wheat	Pod	90.6	393.0	117.9	58.9	8.3
Mustard	Stalks	2.2	2.9	5.2	2.6	0.34
Mustard	Husk	2.2	2.9	2.6	2.4	0.29
Others	Others	0.11	0.33	0.43	0.043	0.0055
<b>Total</b>		<b>93.0</b>	<b>396.2</b>	<b>715.5</b>	<b>181.9</b>	<b>24.2</b>

<b>Taluk level Residue-wise Data for Zira ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	55.4	240.2	360.2	72.0	9.4
Wheat	Pod	55.4	240.2	72.0	36.0	5.0
Others	Others	0.33	0.66	1.2	0.50	0.063
<b>Total</b>		<b>55.7</b>	<b>240.8</b>	<b>433.5</b>	<b>108.6</b>	<b>14.5</b>

<b>Taluk level Residue-wise Data for Batala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	48.4	225.5	338.2	67.6	8.8
Wheat	Pod	48.4	225.5	67.6	33.8	4.7
Mustard	Stalks	0.84	0.87	1.6	0.79	0.10
Mustard	Husk	0.84	0.87	0.79	0.75	0.090
Others	Others	0.45	0.25	0.44	0.044	0.0058
<b>Total</b>		<b>49.7</b>	<b>226.6</b>	<b>408.7</b>	<b>103.0</b>	<b>13.7</b>

<b>Taluk level Residue-wise Data for Dera Baba Nanak ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	29.0	135.3	202.9	40.6	5.3
Wheat	Pod	29.0	135.3	40.6	20.3	2.8
Others	Others	0.42	0.46	1.0	0.53	0.066
<b>Total</b>		<b>29.4</b>	<b>135.7</b>	<b>244.5</b>	<b>61.4</b>	<b>8.2</b>

<b>Taluk level Residue-wise Data for Dhar Kalan ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	3.5	16.2	24.3	4.9	0.63
Wheat	Pod	3.5	16.2	4.9	2.4	0.34
Others	Others	0.11	0.29	0.45	0.13	0.016
<b>Total</b>		<b>3.6</b>	<b>16.5</b>	<b>29.6</b>	<b>7.4</b>	<b>0.99</b>

<b>Taluk level Residue-wise Data for Gurdaspur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	107.6	501.2	751.9	150.4	19.5
Wheat	Pod	107.6	501.2	150.4	75.2	10.5
Mustard	Stalks	1.3	1.3	2.3	1.2	0.15
Mustard	Husk	1.3	1.3	1.2	1.1	0.13
Others	Others	0.57	0.72	0.98	0.23	0.029
<b>Total</b>		<b>109.4</b>	<b>503.3</b>	<b>906.7</b>	<b>228.1</b>	<b>30.4</b>

<b>Taluk level Residue-wise Data for Pathankot ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	28.7	133.9	200.8	40.2	5.2
Wheat	Pod	28.7	133.9	40.2	20.1	2.8
Mustard	Stalks	1.1	1.1	2.1	1.0	0.13
Mustard	Husk	1.1	1.1	1.0	0.98	0.12
Others	Others	0.56	0.74	0.98	0.28	0.036
<b>Total</b>		<b>30.4</b>	<b>135.8</b>	<b>245.0</b>	<b>62.5</b>	<b>8.3</b>

<b>Taluk level Residue-wise Data for Dasua ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	32.4	117.1	175.7	35.1	4.6
Wheat	Pod	32.4	117.1	35.1	17.6	2.5
Mustard	Stalks	0.78	0.78	1.4	0.70	0.091
Mustard	Husk	0.78	0.78	0.70	0.66	0.080
Others	Others	0.089	0.13	0.26	0.052	0.0068
<b>Total</b>		<b>33.3</b>	<b>118.0</b>	<b>213.2</b>	<b>54.1</b>	<b>7.2</b>

<b>Taluk level Residue-wise Data for Garhshankar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	15.6	56.5	84.8	17.0	2.2
Wheat	Pod	15.6	56.5	17.0	8.5	1.2
Others	Others	1.5	1.5	3.2	0.90	0.11
<b>Total</b>		<b>17.1</b>	<b>58.0</b>	<b>104.9</b>	<b>26.3</b>	<b>3.5</b>

<b>Taluk level Residue-wise Data for Hoshiarpur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	53.8	194.6	291.9	58.4	7.6
Wheat	Pod	53.8	194.6	58.4	29.2	4.1
Mustard	Stalks	0.59	0.59	1.1	0.53	0.069
Mustard	Husk	0.59	0.59	0.53	0.51	0.061
Others	Others	0.43	0.72	1.3	0.24	0.031
<b>Total</b>		<b>54.8</b>	<b>195.9</b>	<b>353.2</b>	<b>88.9</b>	<b>11.8</b>

<b>Taluk level Residue-wise Data for Mukerian ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	38.0	137.5	206.3	41.3	5.4
Wheat	Pod	38.0	137.5	41.3	20.6	2.9
Mustard	Stalks	0.91	0.91	1.6	0.82	0.11
Mustard	Husk	0.91	0.91	0.82	0.78	0.093
Others	Others	0.67	0.77	1.3	0.42	0.054
<b>Total</b>		<b>39.6</b>	<b>139.2</b>	<b>251.3</b>	<b>63.9</b>	<b>8.5</b>

<b>Taluk level Residue-wise Data for Jalandhar-I ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	32.0	150.3	225.4	45.1	5.9
Wheat	Pod	32.0	150.3	45.1	22.5	3.2
Mustard	Stalks	0.91	1.3	2.3	1.1	0.15
Mustard	Husk	0.91	1.3	1.1	1.1	0.13
Arhar	Stalks	0.94	0.84	2.1	0.63	0.082
Others	Others	0.0084	0.010	0.27	0.027	0.0032
<b>Total</b>		<b>33.8</b>	<b>152.4</b>	<b>276.3</b>	<b>70.5</b>	<b>9.4</b>

<b>Taluk level Residue-wise Data for Jalandhar-II ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	11.9	55.8	83.7	16.7	2.2
Wheat	Pod	11.9	55.8	16.7	8.4	1.2
Mustard	Stalks	0.38	0.53	0.95	0.47	0.062
Mustard	Husk	0.38	0.53	0.47	0.45	0.054
Others	Others	0.0024	0.0011	0.0017	0.00063	8.17E-05
<b>Total</b>		<b>12.2</b>	<b>56.3</b>	<b>101.9</b>	<b>26.0</b>	<b>3.5</b>

<b>Taluk level Residue-wise Data for Nakodar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	34.8	163.8	245.8	49.2	6.4
Wheat	Pod	34.8	163.8	49.2	24.6	3.4
Mustard	Stalks	0.48	0.68	1.2	0.61	0.079
Mustard	Husk	0.48	0.68	0.61	0.58	0.069
Others	Others	0.33	0.39	0.61	0.17	0.023
<b>Total</b>		<b>35.6</b>	<b>164.9</b>	<b>297.3</b>	<b>75.1</b>	<b>10.0</b>

<b>Taluk level Residue-wise Data for Phillaur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	57.3	269.3	403.9	80.8	10.5
Wheat	Pod	57.3	269.3	80.8	40.4	5.7
Sunflower	Stalks	2.6	3.6	7.1	1.4	0.19
Mustard	Stalks	0.32	0.45	0.80	0.40	0.052
Others	Others	0.10	0.13	0.59	0.40	0.048
<b>Total</b>		<b>60.3</b>	<b>273.4</b>	<b>493.2</b>	<b>123.4</b>	<b>16.4</b>

<b>Taluk level Residue-wise Data for Shahkot ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	31.3	147.3	220.9	44.2	5.7
Wheat	Pod	31.3	147.3	44.2	22.1	3.1
Others	Others	0.23	0.16	0.30	0.10	0.013
<b>Total</b>		<b>31.5</b>	<b>147.4</b>	<b>265.4</b>	<b>66.4</b>	<b>8.8</b>

<b>Taluk level Residue-wise Data for Bhulath ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	19.7	93.0	139.5	27.9	3.6
Wheat	Pod	19.7	93.0	27.9	14.0	2.0
Others	Others	0.20	0.25	0.69	0.45	0.056
<b>Total</b>		<b>19.9</b>	<b>93.3</b>	<b>168.1</b>	<b>42.3</b>	<b>5.6</b>

<b>Taluk level Residue-wise Data for Kapurthala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	50.6	238.7	358.1	71.6	9.3
Wheat	Pod	50.6	238.7	71.6	35.8	5.0
Others	Others	0.31	0.40	1.1	0.70	0.088
Sunflower	Stalks	0.83	1.2	2.4	0.49	0.063
<b>Total</b>		<b>51.7</b>	<b>240.3</b>	<b>433.2</b>	<b>108.6</b>	<b>14.5</b>



<b>Taluk level Residue-wise Data for Phagwara ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	23.5	110.9	166.3	33.3	4.3
Wheat	Pod	23.5	110.9	33.3	16.6	2.3
Others	Others	0.49	0.71	1.5	0.39	0.050
<b>Total</b>		<b>24.0</b>	<b>111.6</b>	<b>201.1</b>	<b>50.3</b>	<b>6.7</b>

<b>Taluk level Residue-wise Data for Sultanpur Lodhi ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	20.3	95.7	143.6	28.7	3.7
Wheat	Pod	20.3	95.7	28.7	14.4	2.0
Others	Others	0.29	0.39	1.0	0.59	0.074
<b>Total</b>		<b>20.6</b>	<b>96.1</b>	<b>173.3</b>	<b>43.7</b>	<b>5.8</b>

<b>Taluk level Residue-wise Data for Jagraon ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	64.6	327.6	491.4	98.3	12.8
Wheat	Pod	64.6	327.6	98.3	49.1	6.9
Mustard	Stalks	0.41	0.56	1.0	0.50	0.065
Arhar	Stalks	0.74	0.59	1.5	0.44	0.058
Mustard	Husk	0.41	0.56	0.50	0.48	0.057
Others	Others	0.26	0.78	1.2	0.14	0.017
<b>Total</b>		<b>66.0</b>	<b>329.5</b>	<b>593.9</b>	<b>149.0</b>	<b>19.9</b>

<b>Taluk level Residue-wise Data for Khanna ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	11.9	60.6	90.8	18.2	2.4
Wheat	Pod	11.9	60.6	18.2	9.1	1.3
Others	Others	0.43	0.81	1.6	0.68	0.085
<b>Total</b>		<b>12.4</b>	<b>61.4</b>	<b>110.6</b>	<b>27.9</b>	<b>3.7</b>

<b>Taluk level Residue-wise Data for Ludhiana(East) ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	45.5	230.9	346.3	69.3	9.0
Wheat	Pod	45.5	230.9	69.3	34.6	4.8
Mustard	Stalks	0.42	0.57	1.0	0.51	0.067
Mustard	Husk	0.42	0.57	0.51	0.49	0.058
Others	Others	0.55	1.1	1.7	0.29	0.038
<b>Total</b>		<b>46.5</b>	<b>232.5</b>	<b>418.8</b>	<b>105.2</b>	<b>14.0</b>

<b>Taluk level Residue-wise Data for Ludhiana(West) ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	31.2	158.4	237.6	47.5	6.2
Wheat	Pod	31.2	158.4	47.5	23.8	3.3
Mustard	Stalks	0.65	0.88	1.6	0.80	0.10
Mustard	Husk	0.65	0.88	0.80	0.76	0.091
Others	Others	1.2	2.7	4.1	0.61	0.080
<b>Total</b>		<b>33.1</b>	<b>162.0</b>	<b>291.6</b>	<b>73.5</b>	<b>9.8</b>

<b>Taluk level Residue-wise Data for Payal ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	35.2	178.8	268.2	53.6	7.0
Wheat	Pod	35.2	178.8	53.6	26.8	3.8
Others	Others	0.69	1.3	2.4	0.82	0.10
<b>Total</b>		<b>35.9</b>	<b>180.2</b>	<b>324.3</b>	<b>81.3</b>	<b>10.8</b>

<b>Taluk level Residue-wise Data for Raikot ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	28.7	145.5	218.2	43.6	5.7
Wheat	Pod	28.7	145.5	43.6	21.8	3.1
Others	Others	0.94	1.4	2.8	0.79	0.10
<b>Total</b>		<b>29.6</b>	<b>146.9</b>	<b>264.6</b>	<b>66.2</b>	<b>8.8</b>

<b>Taluk level Residue-wise Data for Samrala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	41.0	208.0	312.0	62.4	8.1
Wheat	Pod	41.0	208.0	62.4	31.2	4.4
Others	Others	0.68	1.4	2.5	0.76	0.096
<b>Total</b>		<b>41.7</b>	<b>209.4</b>	<b>376.8</b>	<b>94.4</b>	<b>12.6</b>

<b>Taluk level Residue-wise Data for Budhlada ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	71.1	287.7	431.6	86.3	11.2
Wheat	Pod	71.1	287.7	86.3	43.2	6.0
Mustard	Stalks	0.70	0.77	1.4	0.69	0.090
Mustard	Husk	0.70	0.77	0.69	0.66	0.079
<b>Total</b>		<b>71.8</b>	<b>288.5</b>	<b>520.0</b>	<b>130.8</b>	<b>17.4</b>

<b>Taluk level Residue-wise Data for Mansa ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	75.6	305.8	458.7	91.7	11.9
Wheat	Pod	75.6	305.8	91.7	45.9	6.4
Mustard	Stalks	0.97	1.1	1.9	0.95	0.12
Mustard	Husk	0.97	1.1	0.95	0.90	0.11
Others	Others	0.055	0.14	0.18	0.018	0.0024
<b>Total</b>		<b>76.6</b>	<b>307.0</b>	<b>553.5</b>	<b>139.5</b>	<b>18.6</b>

<b>Taluk level Residue-wise Data for Sardulgarh ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	19.5	79.0	118.6	23.7	3.1
Wheat	Pod	19.5	79.0	23.7	11.9	1.7
Mustard	Stalks	0.69	0.76	1.4	0.68	0.089
Mustard	Husk	0.69	0.76	0.68	0.65	0.078
<b>Total</b>		<b>20.2</b>	<b>79.8</b>	<b>144.3</b>	<b>36.9</b>	<b>4.9</b>

<b>Taluk level Residue-wise Data for Bagha Purana ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	62.8	293.0	439.4	87.9	11.4
Wheat	Pod	62.8	293.0	87.9	43.9	6.2
Others	Others	0.00025	0.00034	0.00092	0.00060	7.49E-05
<b>Total</b>		<b>62.8</b>	<b>293.0</b>	<b>527.3</b>	<b>131.8</b>	<b>17.6</b>

<b>Taluk level Residue-wise Data for Moga ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	55.4	258.6	387.9	77.6	10.1
Wheat	Pod	55.4	258.6	77.6	38.8	5.4
<b>Total</b>		<b>55.4</b>	<b>258.6</b>	<b>465.5</b>	<b>116.4</b>	<b>15.5</b>

<b>Taluk level Residue-wise Data for Nihal Singhwala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	48.7	227.3	341.0	68.2	8.9
Wheat	Pod	48.7	227.3	68.2	34.1	4.8
<b>Total</b>		<b>48.7</b>	<b>227.3</b>	<b>409.2</b>	<b>102.3</b>	<b>13.6</b>

<b>Taluk level Residue-wise Data for Giddarbaha ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	74.5	315.9	473.9	94.8	12.3
Wheat	Pod	74.5	315.9	94.8	47.4	6.6
Mustard	Stalks	0.93	1.3	2.3	1.1	0.15
Mustard	Husk	0.93	1.3	1.1	1.1	0.13
Barley	Stalks	1.8	5.6	7.2	0.72	0.094
Others	Others	0.20	0.17	0.38	0.12	0.016
<b>Total</b>		<b>77.5</b>	<b>322.9</b>	<b>579.7</b>	<b>145.2</b>	<b>19.3</b>

<b>Taluk level Residue-wise Data for Malout ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	81.9	346.9	520.3	104.1	13.5
Wheat	Pod	81.9	346.9	104.1	52.0	7.3
Mustard	Stalks	1.1	1.6	2.8	1.4	0.18
Mustard	Husk	1.1	1.6	1.4	1.3	0.16
Others	Others	0.90	2.0	2.7	0.45	0.059
<b>Total</b>		<b>83.9</b>	<b>350.5</b>	<b>631.3</b>	<b>159.3</b>	<b>21.2</b>

<b>Taluk level Residue-wise Data for Muktsar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	40.1	169.9	254.9	51.0	6.6
Wheat	Pod	40.1	169.9	51.0	25.5	3.6
Mustard	Stalks	0.54	0.73	1.3	0.66	0.086
Mustard	Husk	0.54	0.73	0.66	0.63	0.075
Others	Others	0.85	2.2	3.0	0.40	0.053
<b>Total</b>		<b>41.5</b>	<b>172.9</b>	<b>310.8</b>	<b>78.2</b>	<b>10.4</b>

<b>Taluk level Residue-wise Data for Balachaur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	26.0	118.7	178.1	35.6	4.6
Wheat	Pod	26.0	118.7	35.6	17.8	2.5
Others	Others	0.099	0.10	0.28	0.18	0.022
<b>Total</b>		<b>26.1</b>	<b>118.8</b>	<b>214.0</b>	<b>53.6</b>	<b>7.1</b>

<b>Taluk level Residue-wise Data for Nawanshahr ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	45.1	205.8	308.7	61.7	8.0
Wheat	Pod	45.1	205.8	61.7	30.9	4.3
Others	Others	0.082	0.085	0.23	0.15	0.019
<b>Total</b>		<b>45.2</b>	<b>205.9</b>	<b>370.7</b>	<b>92.8</b>	<b>12.4</b>

<b>Taluk level Residue-wise Data for Dera Bassi ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	20.9	103.5	155.2	31.0	4.0
Wheat	Pod	20.9	103.5	31.0	15.5	2.2
<b>Total</b>		<b>20.9</b>	<b>103.5</b>	<b>186.3</b>	<b>46.6</b>	<b>6.2</b>

<b>Taluk level Residue-wise Data for Nabha ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	36.1	178.3	267.5	53.5	7.0
Wheat	Pod	36.1	178.3	53.5	26.7	3.7
Others	Others	0.0054	0.023	0.030	0.0030	0.00040
<b>Total</b>		<b>36.1</b>	<b>178.3</b>	<b>321.0</b>	<b>80.2</b>	<b>10.7</b>

<b>Taluk level Residue-wise Data for Patiala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	94.9	469.1	703.6	140.7	18.3
Wheat	Pod	94.9	469.1	140.7	70.4	9.9
<b>Total</b>		<b>94.9</b>	<b>469.1</b>	<b>844.4</b>	<b>211.1</b>	<b>28.1</b>

<b>Taluk level Residue-wise Data for Rajpura ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	74.0	365.6	548.4	109.7	14.3
Wheat	Pod	74.0	365.6	109.7	54.8	7.7
<b>Total</b>		<b>74.0</b>	<b>365.6</b>	<b>658.1</b>	<b>164.5</b>	<b>21.9</b>

<b>Taluk level Residue-wise Data for Samana ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	44.1	218.2	327.4	65.5	8.5
Wheat	Pod	44.1	218.2	65.5	32.7	4.6
<b>Total</b>		<b>44.1</b>	<b>218.2</b>	<b>392.8</b>	<b>98.2</b>	<b>13.1</b>

<b>Taluk level Residue-wise Data for Anandpur Sahib ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	21.8	85.8	128.7	25.7	3.3
Wheat	Pod	21.8	85.8	25.7	12.9	1.8
Others	Others	0.23	0.20	0.52	0.32	0.040
<b>Total</b>		<b>22.0</b>	<b>86.0</b>	<b>155.0</b>	<b>38.9</b>	<b>5.2</b>

<b>Taluk level Residue-wise Data for Kharar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	18.7	73.8	110.7	22.1	2.9
Wheat	Pod	18.7	73.8	22.1	11.1	1.6
Others	Others	0.24	0.20	0.51	0.30	0.037
<b>Total</b>		<b>19.0</b>	<b>74.0</b>	<b>133.4</b>	<b>33.5</b>	<b>4.5</b>

<b>Taluk level Residue-wise Data for Rupnagar ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	38.0	149.6	224.4	44.9	5.8
Wheat	Pod	38.0	149.6	44.9	22.4	3.1
Others	Others	1.3	2.3	3.8	0.62	0.080
Mustard	Stalks	0.65	0.58	1.1	0.53	0.068
Mustard	Husk	0.65	0.58	0.53	0.50	0.060
<b>Total</b>		<b>39.9</b>	<b>152.5</b>	<b>274.7</b>	<b>69.0</b>	<b>9.2</b>

<b>Taluk level Residue-wise Data for S.A.S.Nagar(Mohali) ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	11.2	44.0	66.0	13.2	1.7
Wheat	Pod	11.2	44.0	13.2	6.6	0.92
Others	Others	0.21	0.14	0.32	0.14	0.017
<b>Total</b>		<b>11.4</b>	<b>44.2</b>	<b>79.6</b>	<b>20.0</b>	<b>2.7</b>

<b>Taluk level Residue-wise Data for Barnala ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	122.6	591.4	887.0	177.4	23.1
Wheat	Pod	122.6	591.4	177.4	88.7	12.4
Barley	Stalks	1.5	6.3	8.2	0.82	0.11
Others	Others	0.0054	0.0062	0.017	0.011	0.0014
<b>Total</b>		<b>124.2</b>	<b>597.7</b>	<b>1072.6</b>	<b>266.9</b>	<b>35.6</b>



<b>Taluk level Residue-wise Data for Dhuri ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	51.7	249.1	373.6	74.7	9.7
Wheat	Pod	51.7	249.1	74.7	37.4	5.2
Barley	Stalks	0.81	3.4	4.4	0.44	0.057
Others	Others	0.0069	0.0080	0.022	0.014	0.0018
<b>Total</b>		<b>52.5</b>	<b>252.4</b>	<b>452.7</b>	<b>112.5</b>	<b>15.0</b>

<b>Taluk level Residue-wise Data for Malerkotla ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	51.4	247.9	371.8	74.4	9.7
Wheat	Pod	51.4	247.9	74.4	37.2	5.2
Others	Others	0.70	2.9	3.8	0.38	0.049
<b>Total</b>		<b>52.1</b>	<b>250.8</b>	<b>450.0</b>	<b>111.9</b>	<b>14.9</b>

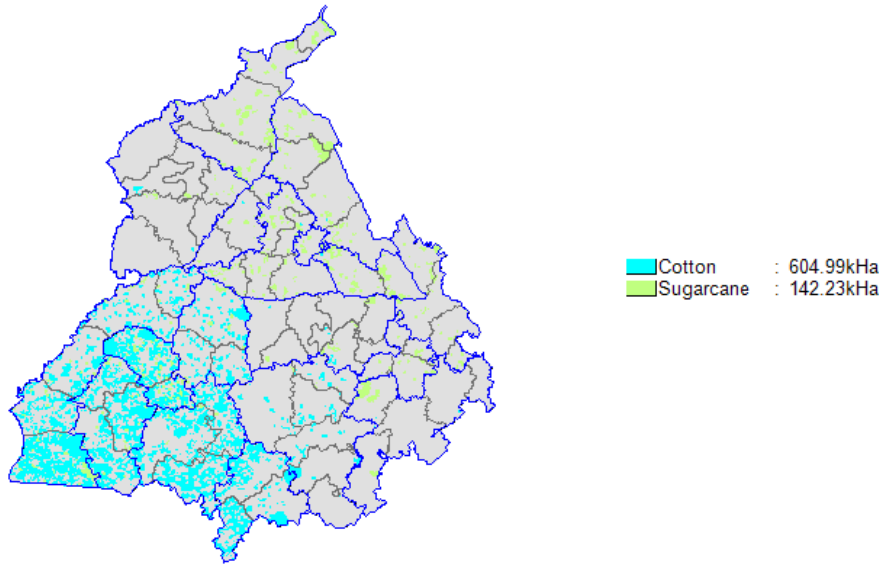
<b>Taluk level Residue-wise Data for Moonak ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	61.0	294.3	441.5	88.3	11.5
Wheat	Pod	61.0	294.3	88.3	44.2	6.2
Others	Others	0.20	0.83	1.1	0.11	0.014
<b>Total</b>		<b>61.2</b>	<b>295.2</b>	<b>530.9</b>	<b>132.6</b>	<b>17.7</b>

<b>Taluk level Residue-wise Data for Sangrur ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	77.8	375.0	562.6	112.5	14.6
Wheat	Pod	77.8	375.0	112.5	56.3	7.9
Barley	Stalks	1.7	7.2	9.3	0.93	0.12
Others	Others	0.044	0.046	0.13	0.065	0.0082
<b>Total</b>		<b>79.6</b>	<b>382.2</b>	<b>684.5</b>	<b>169.8</b>	<b>22.6</b>

<b>Taluk level Residue-wise Data for Sunam ; Season : Rabi</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	27.6	133.0	199.5	39.9	5.2
Wheat	Pod	27.6	133.0	39.9	20.0	2.8
Barley	Stalks	0.81	3.4	4.4	0.44	0.057
Others	Others	0.0011	0.0012	0.0034	0.0022	0.00027
<b>Total</b>		<b>28.4</b>	<b>136.4</b>	<b>243.8</b>	<b>60.3</b>	<b>8.0</b>

# Yearly

## Punjab-Yearly



## State Level Residue Wise

<b>State level Residue-wise Data for Punjab; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	605.0	1647.1	2299.0	2069.1	289.7
Cotton	Husk	605.0	1647.1	1811.8	1630.6	228.3
Cotton	Bollshell	605.0	1647.1	1811.8	1630.6	228.3
Sugarcane	Tops & Leaves	142.2	9255.1	462.8	115.7	16.2
<b>Total</b>		<b>747.2</b>	<b>10902.3</b>	<b>6385.4</b>	<b>5446.1</b>	<b>762.5</b>

## State Level District Wise

State level District-wise Data for Punjab ; Season : Yearly					
District	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Bathinda	163.1	528.1	1635.8	1470.0	205.8
Ferozpur	154.1	917.8	1425.6	1265.8	177.2
Muktsar	130.6	720.5	1239.2	1102.8	154.4
Mansa	88.3	242.1	864.2	777.7	108.9
Faridkot	39.9	431.6	367.2	319.6	44.7
Sangrur	32.0	353.2	283.3	245.9	34.4
Moga	16.4	187.8	140.4	121.4	17.0
Amritsar	12.2	702.8	54.4	26.3	3.7
Ludhiana	9.9	552.9	44.1	21.8	3.1
Gurdaspur	23.1	1574.2	78.7	19.7	2.8
Jalandhar	16.8	1000.6	57.1	18.9	2.7
Hoshiarpur	21.2	1298.1	65.3	16.6	2.3
Patiala	6.0	360.2	26.8	12.5	1.7
Nawanshahr	12.2	725.2	36.7	9.4	1.3
Rupnagar	10.2	553.4	28.1	7.3	1.0
Kapurthala	6.2	379.0	19.8	5.5	0.77
Fatehgarh Sahib	5.1	374.8	18.7	4.7	0.66
<b>Total</b>	<b>747.2</b>	<b>10902.3</b>	<b>6385.4</b>	<b>5446.1</b>	<b>762.5</b>

## State Level Taluk Wise

State level Taluk-wise Data for Punjab ; Season : Yearly						
District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Bathinda	Talwandi Sabo	81.6	232.5	821.6	739.5	103.5
Ferozpur	Abohar	82.6	500.3	763.4	677.5	94.9
Muktsar	Malout	60.9	209.9	588.0	527.6	73.9
Bathinda	Rampura Phul	42.7	134.0	428.7	385.4	54.0
Ferozpur	Fazilka	44.8	159.4	427.6	383.5	53.7
Mansa	Sardulgarh	42.7	117.9	417.8	376.0	52.6
Muktsar	Giddarbaha	44.2	351.4	410.5	361.6	50.6

District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Bathinda	Bathinda	38.8	161.5	385.4	345.2	48.3
Mansa	Mansa	33.8	92.0	330.7	297.6	41.7
Faridkot	Faridkot	29.4	271.5	273.5	239.7	33.6
Muktsar	Muktsar	25.5	159.1	240.7	213.6	29.9
Mansa	Budhlada	11.8	32.2	115.7	104.2	14.6
Firozpur	Jalalabad	12.2	62.6	113.8	101.4	14.2
Faridkot	Jaitu	10.5	160.2	93.6	79.8	11.2
Moga	Moga	10.1	145.0	84.4	71.9	10.1
Sangrur	Dhuri	8.0	21.1	76.8	69.2	9.7
Sangrur	Sangrur	7.6	20.1	73.0	65.7	9.2
Firozpur	Firozpur	9.4	153.1	75.3	63.4	8.9
Sangrur	Sunam	5.6	14.8	54.0	48.6	6.8
Firozpur	Zira	5.1	42.4	45.4	39.9	5.6
Sangrur	Barnala	6.4	219.5	42.7	31.6	4.4
Moga	Nihal Singhwala	3.7	9.2	34.2	30.8	4.3
Sangrur	Malerkotla	3.8	75.9	30.5	25.2	3.5
Moga	Bagha Purana	2.6	33.6	21.8	18.7	2.6
Amritsar	Amritsar-I	2.0	5.2	19.1	17.2	2.4
Ludhiana	Payal	6.8	407.7	28.1	12.1	1.7
Gurdaspur	Gurdaspur	13.5	918.1	45.9	11.5	1.6
Patiala	Nabha	4.4	275.1	18.5	7.8	1.1
Ludhiana	Ludhiana(East)	0.88	2.3	8.4	7.6	1.1
Hoshiarpur	Dasua	8.4	515.3	25.8	6.4	0.90
Nawanshahr	Nawanshahr	7.5	447.2	22.8	6.0	0.84
Sangrur	Moonak	0.65	1.7	6.3	5.6	0.79
Amritsar	Baba Bakala	6.4	436.6	21.8	5.5	0.76
Jalandhar	Jalandhar-Ii	2.1	106.5	9.8	5.4	0.76
Jalandhar	Shahkot	3.3	193.9	12.1	4.6	0.65
Hoshiarpur	Garhshankar	5.7	348.0	17.4	4.4	0.61
Hoshiarpur	Mukerian	5.1	314.6	15.7	3.9	0.55
Patiala	Dera Bassi	0.82	31.4	5.3	3.8	0.53
Nawanshahr	Balachaur	4.7	277.9	13.9	3.5	0.49
Jalandhar	Phillaur	4.2	263.3	13.3	3.5	0.48
Rupnagar	Anandpur Sahib	4.2	225.3	11.7	3.2	0.45
Gurdaspur	Pathankot	3.4	228.7	11.4	2.9	0.40
Jalandhar	Jalandhar-I	3.5	218.7	10.9	2.7	0.38

District	Taluk	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Jalandhar	Nakodar	3.5	218.2	10.9	2.7	0.38
Gurdaspur	Batala	3.2	216.5	10.8	2.7	0.38
Fatehgarh Sahib	Fatehgarh Sahib	2.9	213.5	10.7	2.7	0.37
Kapurthala	Kapurthala	2.3	135.8	7.6	2.5	0.35
Gurdaspur	Dhar Kalan	2.7	182.6	9.1	2.3	0.32
Amritsar	Tarn-Taran	2.2	144.9	7.7	2.2	0.31
Kapurthala	Phagwara	2.8	171.9	8.6	2.2	0.30
Hoshiarpur	Hoshiarpur	2.0	120.2	6.4	1.9	0.27
Rupnagar	S.A.S.Nagar(Mohali)	2.2	119.5	6.0	1.5	0.21
Amritsar	Amritsar-Ii	1.7	116.1	5.8	1.5	0.20
Rupnagar	Kharar	2.1	112.8	5.6	1.4	0.20
Rupnagar	Rupnagar	1.8	95.7	4.8	1.2	0.17
Ludhiana	Jagraon	0.78	49.6	2.9	0.96	0.14
Ludhiana	Samrala	1.1	72.1	3.6	0.90	0.13
Fatehgarh Sahib	Bassi Pathana	0.97	71.2	3.6	0.89	0.12
Fatehgarh Sahib	Khamanon	0.80	59.0	3.0	0.74	0.10
Patiala	Samana	0.76	53.6	2.7	0.67	0.094
Kapurthala	Sultanpur Lodhi	0.66	41.1	2.1	0.51	0.072
Fatehgarh Sahib	Amloh	0.42	31.0	1.6	0.39	0.054
Kapurthala	Bhulath	0.49	30.2	1.5	0.38	0.053
Gurdaspur	Dera Baba Nanak	0.41	28.3	1.4	0.35	0.050
Ludhiana	Raikot	0.31	21.1	1.1	0.26	0.037
Patiala	Rajpura	0.027	0.071	0.26	0.23	0.032
<b>Total</b>		<b>747.2</b>	<b>10902.3</b>	<b>6385.4</b>	<b>5446.1</b>	<b>762.5</b>

## District Level Residue Wise

<b>District level Residue-wise Data for Amritsar; Season : Yearly</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sugarcane	Tops & Leaves	10.2	697.4	34.9	8.7	1.2
Cotton	Stalks	2.0	5.4	7.7	7.0	0.98
Cotton	Bollshell	2.0	5.4	5.9	5.3	0.74
Cotton	Husk	2.0	5.4	5.9	5.3	0.74
<b>Total</b>		<b>12.2</b>	<b>702.8</b>	<b>54.4</b>	<b>26.3</b>	<b>3.7</b>

<b>District level Residue-wise Data for Bathinda; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	162.1	462.0	616.0	554.4	77.6
Cotton	Bollshell	162.1	462.0	508.2	457.4	64.0
Cotton	Husk	162.1	462.0	508.2	457.4	64.0
Sugarcane	Tops & Leaves	1.0	66.1	3.3	0.83	0.12
<b>Total</b>		<b>163.1</b>	<b>528.1</b>	<b>1635.8</b>	<b>1470.0</b>	<b>205.8</b>

<b>District level Residue-wise Data for Faridkot; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	36.1	96.9	137.2	123.5	17.3
Cotton	Bollshell	36.1	96.9	106.6	96.0	13.4
Cotton	Husk	36.1	96.9	106.6	96.0	13.4
Sugarcane	Tops & Leaves	3.8	334.7	16.7	4.2	0.59
<b>Total</b>		<b>39.9</b>	<b>431.6</b>	<b>367.2</b>	<b>319.6</b>	<b>44.7</b>

<b>District level Residue-wise Data for Fatehgarh Sahib; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	5.1	374.8	18.7	4.7	0.66
<b>Total</b>		<b>5.1</b>	<b>374.8</b>	<b>18.7</b>	<b>4.7</b>	<b>0.66</b>

<b>District level Residue-wise Data for Firozpur; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	144.9	385.6	550.8	495.7	69.4
Cotton	Bollshell	144.9	385.6	424.1	381.7	53.4
Cotton	Husk	144.9	385.6	424.1	381.7	53.4
Sugarcane	Tops & Leaves	9.2	532.3	26.6	6.7	0.93
<b>Total</b>		<b>154.1</b>	<b>917.8</b>	<b>1425.6</b>	<b>1265.8</b>	<b>177.2</b>

<b>District level Residue-wise Data for Gurdaspur; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	23.1	1574.2	78.7	19.7	2.8
<b>Total</b>		<b>23.1</b>	<b>1574.2</b>	<b>78.7</b>	<b>19.7</b>	<b>2.8</b>

<b>District level Residue-wise Data for Hoshiarpur; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	21.1	1298.0	64.9	16.2	2.3
Others	Others	0.045	0.13	0.45	0.41	0.057
<b>Total</b>		<b>21.2</b>	<b>1298.1</b>	<b>65.3</b>	<b>16.6</b>	<b>2.3</b>

<b>District level Residue-wise Data for Jalandhar; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	16.0	998.5	49.9	12.5	1.7
Cotton	Stalks	0.71	2.0	2.7	2.4	0.34
Cotton	Bollshell	0.71	2.0	2.2	2.0	0.28
Cotton	Husk	0.71	2.0	2.2	2.0	0.28
<b>Total</b>		<b>16.8</b>	<b>1000.6</b>	<b>57.1</b>	<b>18.9</b>	<b>2.7</b>

<b>District level Residue-wise Data for Kapurthala; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	6.1	378.8	18.9	4.7	0.66
Others	Others	0.091	0.25	0.89	0.80	0.11
<b>Total</b>		<b>6.2</b>	<b>379.0</b>	<b>19.8</b>	<b>5.5</b>	<b>0.77</b>



<b>District level Residue-wise Data for Ludhiana; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	8.1	548.3	27.4	6.9	0.96
Cotton	Stalks	1.7	4.6	6.6	5.9	0.83
Cotton	Bollshell	1.7	4.6	5.0	4.5	0.63
Cotton	Husk	1.7	4.6	5.0	4.5	0.63
<b>Total</b>		<b>9.9</b>	<b>552.9</b>	<b>44.1</b>	<b>21.8</b>	<b>3.1</b>

<b>District level Residue-wise Data for Mansa; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	88.3	240.2	335.6	302.1	42.3
Cotton	Bollshell	88.3	240.2	264.3	237.8	33.3
Cotton	Husk	88.3	240.2	264.3	237.8	33.3
Others	Others	0.027	1.9	0.093	0.023	0.0033
<b>Total</b>		<b>88.3</b>	<b>242.1</b>	<b>864.2</b>	<b>777.7</b>	<b>108.9</b>

<b>District level Residue-wise Data for Moga; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	14.3	35.6	54.5	49.1	6.9
Cotton	Bollshell	14.3	35.6	39.1	35.2	4.9
Cotton	Husk	14.3	35.6	39.1	35.2	4.9
Sugarcane	Tops & Leaves	2.0	152.2	7.6	1.9	0.27
<b>Total</b>		<b>16.4</b>	<b>187.8</b>	<b>140.4</b>	<b>121.4</b>	<b>17.0</b>

<b>District level Residue-wise Data for Muktsar; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	125.5	337.7	477.1	429.4	60.1
Cotton	Bollshell	125.5	337.7	371.5	334.3	46.8
Cotton	Husk	125.5	337.7	371.5	334.3	46.8
Sugarcane	Tops & Leaves	5.0	382.8	19.1	4.8	0.67
<b>Total</b>		<b>130.6</b>	<b>720.5</b>	<b>1239.2</b>	<b>1102.8</b>	<b>154.4</b>

<b>District level Residue-wise Data for Nawanshahr; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	12.2	725.0	36.3	9.1	1.3
Others	Others	0.046	0.12	0.43	0.39	0.054
<b>Total</b>		<b>12.2</b>	<b>725.2</b>	<b>36.7</b>	<b>9.4</b>	<b>1.3</b>

<b>District level Residue-wise Data for Patiala; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	5.1	357.8	17.9	4.5	0.63
Cotton	Stalks	0.92	2.4	3.5	3.1	0.44
Cotton	Bollshell	0.92	2.4	2.7	2.4	0.34
Cotton	Husk	0.92	2.4	2.7	2.4	0.34
<b>Total</b>		<b>6.0</b>	<b>360.2</b>	<b>26.8</b>	<b>12.5</b>	<b>1.7</b>

<b>District level Residue-wise Data for Rupnagar; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	10.2	553.3	27.7	6.9	0.97
Others	Others	0.046	0.13	0.45	0.41	0.057
<b>Total</b>		<b>10.2</b>	<b>553.4</b>	<b>28.1</b>	<b>7.3</b>	<b>1.0</b>

<b>District level Residue-wise Data for Sangrur; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	28.0	74.1	106.4	95.8	13.4
Cotton	Bollshell	28.0	74.1	81.5	73.3	10.3
Cotton	Husk	28.0	74.1	81.5	73.3	10.3
Sugarcane	Tops & Leaves	4.0	279.1	14.0	3.5	0.49
<b>Total</b>		<b>32.0</b>	<b>353.2</b>	<b>283.3</b>	<b>245.9</b>	<b>34.4</b>

## District Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Amritsar ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Amritsar-I	2.0	5.2	19.1	17.2	2.4
Baba Bakala	6.4	436.6	21.8	5.5	0.76
Tarn-Taran	2.2	144.9	7.7	2.2	0.31
Amritsar-Ii	1.7	116.1	5.8	1.5	0.20
<b>Total</b>		<b>12.2</b>	<b>702.8</b>	<b>54.4</b>	<b>26.3</b>

<b>DistrictLevel Taluk-wise Data for Bathinda ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Talwandi Sabo	81.6	232.5	821.6	739.5	103.5
Rampura Phul	42.7	134.0	428.7	385.4	54.0
Bathinda	38.8	161.5	385.4	345.2	48.3
<b>Total</b>		<b>163.1</b>	<b>528.1</b>	<b>1635.8</b>	<b>1470.0</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Faridkot	29.4	271.5	273.5	239.7	33.6
Jaitu	10.5	160.2	93.6	79.8	11.2
<b>Total</b>		<b>39.9</b>	<b>431.6</b>	<b>367.2</b>	<b>319.6</b>

<b>DistrictLevel Taluk-wise Data for Fatehgarh Sahib ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Fatehgarh Sahib	2.9	213.5	10.7	2.7	0.37
Bassi Pathana	0.97	71.2	3.6	0.89	0.12
Khamanon	0.80	59.0	3.0	0.74	0.10
Amloh	0.42	31.0	1.6	0.39	0.054
<b>Total</b>		<b>5.1</b>	<b>374.8</b>	<b>18.7</b>	<b>4.7</b>

<b>DistrictLevel Taluk-wise Data for Firozpur ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Abohar	82.6	500.3	763.4	677.5	94.9
Fazilka	44.8	159.4	427.6	383.5	53.7
Jalalabad	12.2	62.6	113.8	101.4	14.2
Firozpur	9.4	153.1	75.3	63.4	8.9
Zira	5.1	42.4	45.4	39.9	5.6
<b>Total</b>		<b>154.1</b>	<b>917.8</b>	<b>1425.6</b>	<b>1265.8</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Gurdaspur	13.5	918.1	45.9	11.5	1.6
Pathankot	3.4	228.7	11.4	2.9	0.40
Batala	3.2	216.5	10.8	2.7	0.38
Dhar Kalan	2.7	182.6	9.1	2.3	0.32
Dera Baba Nanak	0.41	28.3	1.4	0.35	0.050
<b>Total</b>		<b>23.1</b>	<b>1574.2</b>	<b>78.7</b>	<b>19.7</b>

<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Dasua	8.4	515.3	25.8	6.4	0.90
Garhshankar	5.7	348.0	17.4	4.4	0.61
Mukerian	5.1	314.6	15.7	3.9	0.55
Hoshiarpur	2.0	120.2	6.4	1.9	0.27
<b>Total</b>		<b>21.2</b>	<b>1298.1</b>	<b>65.3</b>	<b>16.6</b>

<b>DistrictLevel Taluk-wise Data for Jalandhar ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jalandhar-Ii	2.1	106.5	9.8	5.4	0.76
Shahkot	3.3	193.9	12.1	4.6	0.65
Phillaur	4.2	263.3	13.3	3.5	0.48
Jalandhar-I	3.5	218.7	10.9	2.7	0.38
Nakodar	3.5	218.2	10.9	2.7	0.38
<b>Total</b>		<b>16.8</b>	<b>1000.6</b>	<b>57.1</b>	<b>18.9</b>

<b>DistrictLevel Taluk-wise Data for Kapurthala ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Kapurthala	2.3	135.8	7.6	2.5	0.35
Phagwara	2.8	171.9	8.6	2.2	0.30
Sultanpur Lodhi	0.66	41.1	2.1	0.51	0.072
Bhulath	0.49	30.2	1.5	0.38	0.053
<b>Total</b>		<b>6.2</b>	<b>379.0</b>	<b>19.8</b>	<b>5.5</b>

<b>DistrictLevel Taluk-wise Data for Ludhiana ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Payal	6.8	407.7	28.1	12.1	1.7
Ludhiana(East)	0.88	2.3	8.4	7.6	1.1
Jagraon	0.78	49.6	2.9	0.96	0.14
Samrala	1.1	72.1	3.6	0.90	0.13
Raikot	0.31	21.1	1.1	0.26	0.037
<b>Total</b>		<b>9.9</b>	<b>552.9</b>	<b>44.1</b>	<b>21.8</b>

<b>DistrictLevel Taluk-wise Data for Mansa ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sardulgarh	42.7	117.9	417.8	376.0	52.6
Mansa	33.8	92.0	330.7	297.6	41.7
Budhlada	11.8	32.2	115.7	104.2	14.6
<b>Total</b>		<b>88.3</b>	<b>242.1</b>	<b>864.2</b>	<b>777.7</b>

<b>DistrictLevel Taluk-wise Data for Moga ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Moga	10.1	145.0	84.4	71.9	10.1
Nihal Singhwala	3.7	9.2	34.2	30.8	4.3
Bagha Purana	2.6	33.6	21.8	18.7	2.6
<b>Total</b>		<b>16.4</b>	<b>187.8</b>	<b>140.4</b>	<b>121.4</b>

<b>DistrictLevel Taluk-wise Data for Muktsar ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Malout	60.9	209.9	588.0	527.6	73.9
Giddarbaha	44.2	351.4	410.5	361.6	50.6
Muktsar	25.5	159.1	240.7	213.6	29.9
<b>Total</b>		<b>130.6</b>	<b>720.5</b>	<b>1239.2</b>	<b>1102.8</b>

<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nawanshahr	7.5	447.2	22.8	6.0	0.84
Balachaur	4.7	277.9	13.9	3.5	0.49
<b>Total</b>		<b>12.2</b>	<b>725.2</b>	<b>36.7</b>	<b>9.4</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nabha	4.4	275.1	18.5	7.8	1.1
Dera Bassi	0.82	31.4	5.3	3.8	0.53
Samana	0.76	53.6	2.7	0.67	0.094
Rajpura	0.027	0.071	0.26	0.23	0.032
<b>Total</b>		<b>6.0</b>	<b>360.2</b>	<b>26.8</b>	<b>12.5</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Anandpur Sahib	4.2	225.3	11.7	3.2	0.45
S.A.S.Nagar(Mohali)	2.2	119.5	6.0	1.5	0.21
Kharar	2.1	112.8	5.6	1.4	0.20
Rupnagar	1.8	95.7	4.8	1.2	0.17
<b>Total</b>		<b>10.2</b>	<b>553.4</b>	<b>28.1</b>	<b>7.3</b>

<b>DistrictLevel Taluk-wise Data for Sangrur ; Season : Yearly</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Dhuri	8.0	21.1	76.8	69.2	9.7
Sangrur	7.6	20.1	73.0	65.7	9.2
Sunam	5.6	14.8	54.0	48.6	6.8
Barnala	6.4	219.5	42.7	31.6	4.4
Malerkotla	3.8	75.9	30.5	25.2	3.5
Moonak	0.65	1.7	6.3	5.6	0.79
<b>Total</b>		<b>32.0</b>	<b>353.2</b>	<b>283.3</b>	<b>245.9</b>

### Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Amritsar-I ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	2.0	5.2	7.6	6.8	0.96
Cotton	Bollshell	2.0	5.2	5.8	5.2	0.73
Cotton	Husk	2.0	5.2	5.8	5.2	0.73
<b>Total</b>		<b>2.0</b>	<b>5.2</b>	<b>19.1</b>	<b>17.2</b>	<b>2.4</b>

<b>Taluk level Residue-wise Data for Amritsar-Ii ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	1.7	116.1	5.8	1.5	0.20
<b>Total</b>		<b>1.7</b>	<b>116.1</b>	<b>5.8</b>	<b>1.5</b>	<b>0.20</b>

<b>Taluk level Residue-wise Data for Baba Bakala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	6.4	436.6	21.8	5.5	0.76
<b>Total</b>		<b>6.4</b>	<b>436.6</b>	<b>21.8</b>	<b>5.5</b>	<b>0.76</b>

<b>Taluk level Residue-wise Data for Tarn-Taran ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.1	144.8	7.2	1.8	0.25
Others	Others	0.044	0.12	0.42	0.38	0.053
<b>Total</b>		<b>2.2</b>	<b>144.9</b>	<b>7.7</b>	<b>2.2</b>	<b>0.31</b>

<b>Taluk level Residue-wise Data for Bathinda ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	38.0	108.3	144.4	130.0	18.2
Cotton	Bollshell	38.0	108.3	119.2	107.2	15.0
Cotton	Husk	38.0	108.3	119.2	107.2	15.0
Sugarcane	Tops & Leaves	0.82	53.2	2.7	0.66	0.093
<b>Total</b>		<b>38.8</b>	<b>161.5</b>	<b>385.4</b>	<b>345.2</b>	<b>48.3</b>

<b>Taluk level Residue-wise Data for Rampura Phul ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	42.5	121.1	161.5	145.4	20.4
Cotton	Bollshell	42.5	121.1	133.3	119.9	16.8
Cotton	Husk	42.5	121.1	133.3	119.9	16.8
Others	Others	0.20	12.9	0.64	0.16	0.023
<b>Total</b>		<b>42.7</b>	<b>134.0</b>	<b>428.7</b>	<b>385.4</b>	<b>54.0</b>



<b>Taluk level Residue-wise Data for Talwandi Sabo ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	81.6	232.5	310.0	279.0	39.1
Cotton	Bollshell	81.6	232.5	255.8	230.2	32.2
Cotton	Husk	81.6	232.5	255.8	230.2	32.2
<b>Total</b>		<b>81.6</b>	<b>232.5</b>	<b>821.6</b>	<b>739.5</b>	<b>103.5</b>

<b>Taluk level Residue-wise Data for Faridkot ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	27.2	72.9	103.2	92.9	13.0
Cotton	Bollshell	27.2	72.9	80.2	72.2	10.1
Cotton	Husk	27.2	72.9	80.2	72.2	10.1
Sugarcane	Tops & Leaves	2.3	198.5	9.9	2.5	0.35
<b>Total</b>		<b>29.4</b>	<b>271.5</b>	<b>273.5</b>	<b>239.7</b>	<b>33.6</b>

<b>Taluk level Residue-wise Data for Jaitu ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	8.9	24.0	34.0	30.6	4.3
Cotton	Bollshell	8.9	24.0	26.4	23.8	3.3
Cotton	Husk	8.9	24.0	26.4	23.8	3.3
Sugarcane	Tops & Leaves	1.6	136.1	6.8	1.7	0.24
<b>Total</b>		<b>10.5</b>	<b>160.2</b>	<b>93.6</b>	<b>79.8</b>	<b>11.2</b>

<b>Taluk level Residue-wise Data for Amlah ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.42	31.0	1.6	0.39	0.054
<b>Total</b>		<b>0.42</b>	<b>31.0</b>	<b>1.6</b>	<b>0.39</b>	<b>0.054</b>

<b>Taluk level Residue-wise Data for Bassi Pathana ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.97	71.2	3.6	0.89	0.12
<b>Total</b>		<b>0.97</b>	<b>71.2</b>	<b>3.6</b>	<b>0.89</b>	<b>0.12</b>

<b>Taluk level Residue-wise Data for Fatehgarh Sahib ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.9	213.5	10.7	2.7	0.37
<b>Total</b>		<b>2.9</b>	<b>213.5</b>	<b>10.7</b>	<b>2.7</b>	<b>0.37</b>

<b>Taluk level Residue-wise Data for Khamanon ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.80	59.0	3.0	0.74	0.10
<b>Total</b>		<b>0.80</b>	<b>59.0</b>	<b>3.0</b>	<b>0.74</b>	<b>0.10</b>

<b>Taluk level Residue-wise Data for Abohar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	77.6	206.3	294.8	265.3	37.1
Cotton	Bollshell	77.6	206.3	227.0	204.3	28.6
Cotton	Husk	77.6	206.3	227.0	204.3	28.6
Sugarcane	Tops & Leaves	5.1	294.0	14.7	3.7	0.51
<b>Total</b>		<b>82.6</b>	<b>500.3</b>	<b>763.4</b>	<b>677.5</b>	<b>94.9</b>

<b>Taluk level Residue-wise Data for Fazilka ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	44.1	117.3	167.5	150.8	21.1
Cotton	Bollshell	44.1	117.3	129.0	116.1	16.3
Cotton	Husk	44.1	117.3	129.0	116.1	16.3
Sugarcane	Tops & Leaves	0.72	42.1	2.1	0.53	0.074
<b>Total</b>		<b>44.8</b>	<b>159.4</b>	<b>427.6</b>	<b>383.5</b>	<b>53.7</b>

<b>Taluk level Residue-wise Data for Firozpur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	7.1	18.9	27.0	24.3	3.4
Cotton	Bollshell	7.1	18.9	20.8	18.7	2.6
Cotton	Husk	7.1	18.9	20.8	18.7	2.6
Sugarcane	Tops & Leaves	2.3	134.2	6.7	1.7	0.23
<b>Total</b>		<b>9.4</b>	<b>153.1</b>	<b>75.3</b>	<b>63.4</b>	<b>8.9</b>

<b>Taluk level Residue-wise Data for Jalalabad ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	11.6	30.9	44.2	39.8	5.6
Cotton	Bollshell	11.6	30.9	34.0	30.6	4.3
Cotton	Husk	11.6	30.9	34.0	30.6	4.3
Sugarcane	Tops & Leaves	0.54	31.7	1.6	0.40	0.055
<b>Total</b>		<b>12.2</b>	<b>62.6</b>	<b>113.8</b>	<b>101.4</b>	<b>14.2</b>

<b>Taluk level Residue-wise Data for Zira ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	4.5	12.1	17.3	15.6	2.2
Cotton	Bollshell	4.5	12.1	13.3	12.0	1.7
Cotton	Husk	4.5	12.1	13.3	12.0	1.7
Sugarcane	Tops & Leaves	0.52	30.3	1.5	0.38	0.053
<b>Total</b>		<b>5.1</b>	<b>42.4</b>	<b>45.4</b>	<b>39.9</b>	<b>5.6</b>

<b>Taluk level Residue-wise Data for Batala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.2	216.5	10.8	2.7	0.38
<b>Total</b>		<b>3.2</b>	<b>216.5</b>	<b>10.8</b>	<b>2.7</b>	<b>0.38</b>

<b>Taluk level Residue-wise Data for Dera Baba Nanak ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Others	Others	0.41	28.3	1.4	0.35	0.050
<b>Total</b>		<b>0.41</b>	<b>28.3</b>	<b>1.4</b>	<b>0.35</b>	<b>0.050</b>

<b>Taluk level Residue-wise Data for Dhar Kalan ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.7	182.6	9.1	2.3	0.32
<b>Total</b>		<b>2.7</b>	<b>182.6</b>	<b>9.1</b>	<b>2.3</b>	<b>0.32</b>

<b>Taluk level Residue-wise Data for Gurdaspur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	13.5	918.1	45.9	11.5	1.6
<b>Total</b>		<b>13.5</b>	<b>918.1</b>	<b>45.9</b>	<b>11.5</b>	<b>1.6</b>

<b>Taluk level Residue-wise Data for Pathankot ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.4	228.7	11.4	2.9	0.40
<b>Total</b>		<b>3.4</b>	<b>228.7</b>	<b>11.4</b>	<b>2.9</b>	<b>0.40</b>

<b>Taluk level Residue-wise Data for Dasua ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	8.4	515.3	25.8	6.4	0.90
<b>Total</b>		<b>8.4</b>	<b>515.3</b>	<b>25.8</b>	<b>6.4</b>	<b>0.90</b>

<b>Taluk level Residue-wise Data for Garhshankar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	5.7	348.0	17.4	4.4	0.61
Others	Others	0.00060	0.0017	0.0059	0.0053	0.00075
<b>Total</b>		<b>5.7</b>	<b>348.0</b>	<b>17.4</b>	<b>4.4</b>	<b>0.61</b>

<b>Taluk level Residue-wise Data for Hoshiarpur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.0	120.1	6.0	1.5	0.21
Others	Others	0.045	0.12	0.45	0.40	0.056
<b>Total</b>		<b>2.0</b>	<b>120.2</b>	<b>6.4</b>	<b>1.9</b>	<b>0.27</b>

<b>Taluk level Residue-wise Data for Mukerian ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	5.1	314.6	15.7	3.9	0.55
<b>Total</b>		<b>5.1</b>	<b>314.6</b>	<b>15.7</b>	<b>3.9</b>	<b>0.55</b>

<b>Taluk level Residue-wise Data for Jalandhar-I ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.5	218.7	10.9	2.7	0.38
<b>Total</b>		<b>3.5</b>	<b>218.7</b>	<b>10.9</b>	<b>2.7</b>	<b>0.38</b>

<b>Taluk level Residue-wise Data for Jalandhar-Ii ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	0.45	1.3	1.7	1.5	0.22
Sugarcane	Tops & Leaves	1.7	105.2	5.3	1.3	0.18
Cotton	Bollshell	0.45	1.3	1.4	1.3	0.18
Cotton	Husk	0.45	1.3	1.4	1.3	0.18
<b>Total</b>		<b>2.1</b>	<b>106.5</b>	<b>9.8</b>	<b>5.4</b>	<b>0.76</b>

<b>Taluk level Residue-wise Data for Nakodar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.5	218.2	10.9	2.7	0.38
<b>Total</b>		<b>3.5</b>	<b>218.2</b>	<b>10.9</b>	<b>2.7</b>	<b>0.38</b>

<b>Taluk level Residue-wise Data for Phillaur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	4.2	263.3	13.2	3.3	0.46
Others	Others	0.018	0.052	0.18	0.17	0.023
<b>Total</b>		<b>4.2</b>	<b>263.3</b>	<b>13.3</b>	<b>3.5</b>	<b>0.48</b>

<b>Taluk level Residue-wise Data for Shahkot ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.1	193.2	9.7	2.4	0.34
Cotton	Stalks	0.24	0.69	0.92	0.83	0.12
Cotton	Bollshell	0.24	0.69	0.76	0.69	0.096
Cotton	Husk	0.24	0.69	0.76	0.69	0.096
<b>Total</b>		<b>3.3</b>	<b>193.9</b>	<b>12.1</b>	<b>4.6</b>	<b>0.65</b>

<b>Taluk level Residue-wise Data for Bhulath ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.49	30.2	1.5	0.38	0.053
<b>Total</b>		<b>0.49</b>	<b>30.2</b>	<b>1.5</b>	<b>0.38</b>	<b>0.053</b>

<b>Taluk level Residue-wise Data for Kapurthala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.2	135.5	6.8	1.7	0.24
Others	Others	0.088	0.24	0.86	0.78	0.11
<b>Total</b>		<b>2.3</b>	<b>135.8</b>	<b>7.6</b>	<b>2.5</b>	<b>0.35</b>

<b>Taluk level Residue-wise Data for Phagwara ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.8	171.9	8.6	2.1	0.30
Others	Others	0.0028	0.0074	0.027	0.024	0.0034
<b>Total</b>		<b>2.8</b>	<b>171.9</b>	<b>8.6</b>	<b>2.2</b>	<b>0.30</b>

<b>Taluk level Residue-wise Data for Sultanpur Lodhi ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.66	41.1	2.1	0.51	0.072
<b>Total</b>		<b>0.66</b>	<b>41.1</b>	<b>2.1</b>	<b>0.51</b>	<b>0.072</b>

<b>Taluk level Residue-wise Data for Jagraon ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.74	49.5	2.5	0.62	0.087
Others	Others	0.040	0.11	0.38	0.35	0.048
<b>Total</b>		<b>0.78</b>	<b>49.6</b>	<b>2.9</b>	<b>0.96</b>	<b>0.14</b>

<b>Taluk level Residue-wise Data for Ludhiana(East) ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	0.88	2.3	3.3	3.0	0.42
Cotton	Bollshell	0.88	2.3	2.5	2.3	0.32
Cotton	Husk	0.88	2.3	2.5	2.3	0.32
<b>Total</b>		<b>0.88</b>	<b>2.3</b>	<b>8.4</b>	<b>7.6</b>	<b>1.1</b>

<b>Taluk level Residue-wise Data for Payal ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	6.0	405.6	20.3	5.1	0.71
Cotton	Stalks	0.82	2.2	3.1	2.8	0.39
Cotton	Bollshell	0.82	2.2	2.4	2.1	0.30
Cotton	Husk	0.82	2.2	2.4	2.1	0.30
<b>Total</b>		<b>6.8</b>	<b>407.7</b>	<b>28.1</b>	<b>12.1</b>	<b>1.7</b>

<b>Taluk level Residue-wise Data for Raikot ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Others	Others	0.31	21.1	1.1	0.26	0.037
<b>Total</b>		<b>0.31</b>	<b>21.1</b>	<b>1.1</b>	<b>0.26</b>	<b>0.037</b>

<b>Taluk level Residue-wise Data for Samrala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	1.1	72.1	3.6	0.90	0.13
<b>Total</b>		<b>1.1</b>	<b>72.1</b>	<b>3.6</b>	<b>0.90</b>	<b>0.13</b>

<b>Taluk level Residue-wise Data for Budhlada ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	11.8	32.2	45.0	40.5	5.7
Cotton	Bollshell	11.8	32.2	35.4	31.9	4.5
Cotton	Husk	11.8	32.2	35.4	31.9	4.5
<b>Total</b>		<b>11.8</b>	<b>32.2</b>	<b>115.7</b>	<b>104.2</b>	<b>14.6</b>



<b>Taluk level Residue-wise Data for Mansa ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	33.8	91.9	128.4	115.6	16.2
Cotton	Bollshell	33.8	91.9	101.1	91.0	12.7
Cotton	Husk	33.8	91.9	101.1	91.0	12.7
Others	Others	0.0014	0.100	0.0050	0.0012	0.00017
<b>Total</b>		<b>33.8</b>	<b>92.0</b>	<b>330.7</b>	<b>297.6</b>	<b>41.7</b>

<b>Taluk level Residue-wise Data for Sardulgarh ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	42.7	116.1	162.2	146.0	20.4
Cotton	Bollshell	42.7	116.1	127.7	115.0	16.1
Cotton	Husk	42.7	116.1	127.7	115.0	16.1
Others	Others	0.025	1.8	0.088	0.022	0.0031
<b>Total</b>		<b>42.7</b>	<b>117.9</b>	<b>417.8</b>	<b>376.0</b>	<b>52.6</b>

<b>Taluk level Residue-wise Data for Bagha Purana ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	2.2	5.5	8.4	7.5	1.1
Cotton	Bollshell	2.2	5.5	6.0	5.4	0.76
Cotton	Husk	2.2	5.5	6.0	5.4	0.76
Others	Others	0.38	28.2	1.4	0.35	0.049
<b>Total</b>		<b>2.6</b>	<b>33.6</b>	<b>21.8</b>	<b>18.7</b>	<b>2.6</b>

<b>Taluk level Residue-wise Data for Moga ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	8.4	20.9	32.1	28.9	4.0
Cotton	Bollshell	8.4	20.9	23.0	20.7	2.9
Cotton	Husk	8.4	20.9	23.0	20.7	2.9
Sugarcane	Tops & Leaves	1.7	124.1	6.2	1.6	0.22
<b>Total</b>		<b>10.1</b>	<b>145.0</b>	<b>84.4</b>	<b>71.9</b>	<b>10.1</b>

<b>Taluk level Residue-wise Data for Nihal Singhwala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	3.7	9.2	14.0	12.6	1.8
Cotton	Bollshell	3.7	9.2	10.1	9.1	1.3
Cotton	Husk	3.7	9.2	10.1	9.1	1.3
<b>Total</b>		<b>3.7</b>	<b>9.2</b>	<b>34.2</b>	<b>30.8</b>	<b>4.3</b>

<b>Taluk level Residue-wise Data for Giddarbaha ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	41.0	110.3	155.8	140.2	19.6
Cotton	Bollshell	41.0	110.3	121.3	109.2	15.3
Cotton	Husk	41.0	110.3	121.3	109.2	15.3
Sugarcane	Tops & Leaves	3.2	241.1	12.1	3.0	0.42
<b>Total</b>		<b>44.2</b>	<b>351.4</b>	<b>410.5</b>	<b>361.6</b>	<b>50.6</b>

<b>Taluk level Residue-wise Data for Malout ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	60.3	162.1	229.0	206.1	28.9
Cotton	Bollshell	60.3	162.1	178.3	160.5	22.5
Cotton	Husk	60.3	162.1	178.3	160.5	22.5
Sugarcane	Tops & Leaves	0.63	47.8	2.4	0.60	0.084
<b>Total</b>		<b>60.9</b>	<b>209.9</b>	<b>588.0</b>	<b>527.6</b>	<b>73.9</b>

<b>Taluk level Residue-wise Data for Muktsar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	24.3	65.3	92.3	83.0	11.6
Cotton	Bollshell	24.3	65.3	71.9	64.7	9.1
Cotton	Husk	24.3	65.3	71.9	64.7	9.1
Sugarcane	Tops & Leaves	1.2	93.8	4.7	1.2	0.16
<b>Total</b>		<b>25.5</b>	<b>159.1</b>	<b>240.7</b>	<b>213.6</b>	<b>29.9</b>

<b>Taluk level Residue-wise Data for Balachaur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	4.7	277.9	13.9	3.5	0.49
Others	Others	0.00068	0.0017	0.0064	0.0058	0.00081
<b>Total</b>		<b>4.7</b>	<b>277.9</b>	<b>13.9</b>	<b>3.5</b>	<b>0.49</b>

<b>Taluk level Residue-wise Data for Nawanshahr ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	7.5	447.1	22.4	5.6	0.78
Others	Others	0.045	0.11	0.42	0.38	0.053
<b>Total</b>		<b>7.5</b>	<b>447.2</b>	<b>22.8</b>	<b>6.0</b>	<b>0.84</b>

<b>Taluk level Residue-wise Data for Dera Bassi ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	0.39	1.0	1.5	1.3	0.19
Cotton	Bollshell	0.39	1.0	1.1	1.0	0.14
Cotton	Husk	0.39	1.0	1.1	1.0	0.14
Sugarcane	Tops & Leaves	0.43	30.4	1.5	0.38	0.053
<b>Total</b>		<b>0.82</b>	<b>31.4</b>	<b>5.3</b>	<b>3.8</b>	<b>0.53</b>

<b>Taluk level Residue-wise Data for Nabha ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	3.9	273.8	13.7	3.4	0.48
Cotton	Stalks	0.50	1.3	1.9	1.7	0.24
Cotton	Bollshell	0.50	1.3	1.5	1.3	0.19
Cotton	Husk	0.50	1.3	1.5	1.3	0.19
<b>Total</b>		<b>4.4</b>	<b>275.1</b>	<b>18.5</b>	<b>7.8</b>	<b>1.1</b>

<b>Taluk level Residue-wise Data for Rajpura ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Others	Others	0.027	0.071	0.26	0.23	0.032
<b>Total</b>		<b>0.027</b>	<b>0.071</b>	<b>0.26</b>	<b>0.23</b>	<b>0.032</b>

<b>Taluk level Residue-wise Data for Samana ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	0.76	53.6	2.7	0.67	0.094
<b>Total</b>		<b>0.76</b>	<b>53.6</b>	<b>2.7</b>	<b>0.67</b>	<b>0.094</b>

<b>Taluk level Residue-wise Data for Anandpur Sahib ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	4.1	225.2	11.3	2.8	0.39
Others	Others	0.046	0.13	0.45	0.41	0.057
<b>Total</b>		<b>4.2</b>	<b>225.3</b>	<b>11.7</b>	<b>3.2</b>	<b>0.45</b>

<b>Taluk level Residue-wise Data for Kharar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.1	112.8	5.6	1.4	0.20
<b>Total</b>		<b>2.1</b>	<b>112.8</b>	<b>5.6</b>	<b>1.4</b>	<b>0.20</b>

<b>Taluk level Residue-wise Data for Rupnagar ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	1.8	95.7	4.8	1.2	0.17
<b>Total</b>		<b>1.8</b>	<b>95.7</b>	<b>4.8</b>	<b>1.2</b>	<b>0.17</b>

<b>Taluk level Residue-wise Data for S.A.S.Nagar(Mohali) ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.2	119.5	6.0	1.5	0.21
<b>Total</b>		<b>2.2</b>	<b>119.5</b>	<b>6.0</b>	<b>1.5</b>	<b>0.21</b>

<b>Taluk level Residue-wise Data for Barnala ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	3.3	8.8	12.7	11.4	1.6
Cotton	Bollshell	3.3	8.8	9.7	8.8	1.2
Cotton	Husk	3.3	8.8	9.7	8.8	1.2
Sugarcane	Tops & Leaves	3.0	210.7	10.5	2.6	0.37
<b>Total</b>		<b>6.4</b>	<b>219.5</b>	<b>42.7</b>	<b>31.6</b>	<b>4.4</b>

<b>Taluk level Residue-wise Data for Dhuri ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	8.0	21.1	30.4	27.3	3.8
Cotton	Bollshell	8.0	21.1	23.2	20.9	2.9
Cotton	Husk	8.0	21.1	23.2	20.9	2.9
<b>Total</b>		<b>8.0</b>	<b>21.1</b>	<b>76.8</b>	<b>69.2</b>	<b>9.7</b>

<b>Taluk level Residue-wise Data for Malerkotla ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	2.8	7.4	10.7	9.6	1.3
Cotton	Bollshell	2.8	7.4	8.2	7.4	1.0
Cotton	Husk	2.8	7.4	8.2	7.4	1.0
Sugarcane	Tops & Leaves	0.99	68.4	3.4	0.86	0.12
<b>Total</b>		<b>3.8</b>	<b>75.9</b>	<b>30.5</b>	<b>25.2</b>	<b>3.5</b>

<b>Taluk level Residue-wise Data for Moonak ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	0.65	1.7	2.5	2.2	0.31
Cotton	Bollshell	0.65	1.7	1.9	1.7	0.24
Cotton	Husk	0.65	1.7	1.9	1.7	0.24
<b>Total</b>		<b>0.65</b>	<b>1.7</b>	<b>6.3</b>	<b>5.6</b>	<b>0.79</b>

<b>Taluk level Residue-wise Data for Sangrur ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	7.6	20.1	28.9	26.0	3.6
Cotton	Bollshell	7.6	20.1	22.1	19.9	2.8
Cotton	Husk	7.6	20.1	22.1	19.9	2.8
<b>Total</b>		<b>7.6</b>	<b>20.1</b>	<b>73.0</b>	<b>65.7</b>	<b>9.2</b>

<b>Taluk level Residue-wise Data for Sunam ; Season : Yearly</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	5.6	14.8	21.3	19.2	2.7
Cotton	Bollshell	5.6	14.8	16.3	14.7	2.1
Cotton	Husk	5.6	14.8	16.3	14.7	2.1
<b>Total</b>		<b>5.6</b>	<b>14.8</b>	<b>54.0</b>	<b>48.6</b>	<b>6.8</b>

## Agro

### State Level Residue Wise

<b>State level Residue-wise Data for Punjab; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	2502.5	8872.9	13309.4	10647.5	1277.7
Wheat	Stalks	3435.1	15568.9	23353.3	4670.7	607.2
Wheat	Pod	3435.1	15568.9	4670.7	2335.3	326.9
Cotton	Stalks	605.0	1647.1	2299.0	2069.1	289.7
Cotton	Husk	605.0	1647.1	1811.8	1630.6	228.3
Cotton	Bollshell	605.0	1647.1	1811.8	1630.6	228.3
Paddy	Husk	2502.5	8872.9	1774.6	1419.7	156.2
Maize	Stalks	165.5	452.7	905.4	181.1	23.5
Sugarcane	Tops & Leaves	142.2	9255.1	462.8	115.7	16.2
Maize	Cobs	165.5	452.7	226.3	67.9	9.5
Mustard	Stalks	40.2	49.0	88.1	44.1	5.7
Mustard	Husk	40.2	49.0	44.1	41.9	5.0
Barley	Stalks	17.4	60.5	78.7	7.9	1.0
Arhar	Stalks	5.7	4.8	11.9	3.6	0.46
Sunflower	Stalks	5.7	8.1	16.3	3.3	0.42
Til	Stalks	20.9	7.8	19.5	1.9	0.25
Gram	Stalks	2.4	1.9	2.0	1.8	0.24
Groundnut	Stalks	4.7	4.2	8.5	1.7	0.22
Moong	Stalks	22.8	13.1	14.4	1.4	0.19
Bajra	Stalks	6.6	6.2	12.4	1.2	0.16
Bajra	Cobs	6.6	6.2	2.0	1.0	0.13
Others	Others	5.1	3.5	9.4	0.98	0.12
Groundnut	Shell	4.7	4.2	1.3	0.89	0.11
Bajra	Husk	6.6	6.2	1.9	0.46	0.056
<b>Total</b>		<b>6981.8</b>	<b>35955.7</b>	<b>50935.4</b>	<b>24880.3</b>	<b>3177.6</b>



## State Level District Wise

<b>State level District-wise Data for Punjab ; Biomass Class : Agro</b>					
<b>District</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Firozpur	788.6	3467.7	5940.7	3217.3	420.1
Sangrur	793.9	3666.3	6100.5	2992.0	373.2
Bathinda	503.2	1806.9	3911.4	2335.4	315.0
Amritsar	718.2	3386.4	4804.0	2109.9	262.5
Muktsar	403.9	1813.9	3182.7	1817.9	244.9
Ludhiana	519.4	2810.3	4028.4	1875.3	232.0
Patiala	529.1	2608.2	3985.4	1851.2	229.0
Mansa	329.1	1167.4	2509.3	1422.1	189.9
Moga	342.2	1558.1	2550.0	1271.3	158.7
Gurdaspur	455.4	3191.0	2953.5	1274.0	158.7
Jalandhar	340.6	2290.1	2372.8	1012.7	126.3
Faridkot	226.0	1205.6	1735.2	913.3	118.6
Kapurthala	232.0	1299.3	1650.9	754.3	93.4
Fatehgarh Sahib	173.2	1123.8	1335.3	635.8	78.4
Hoshiarpur	295.7	2175.0	1763.9	590.4	75.3
Rupnagar	184.5	1141.8	1118.5	429.0	54.0
Nawanshahr	146.9	1244.1	992.8	378.2	47.7
<b>Total</b>	<b>6981.8</b>	<b>35955.7</b>	<b>50935.4</b>	<b>24880.3</b>	<b>3177.6</b>

## State Level Taluk Wise

<b>State level Taluk-wise Data for Punjab ; Biomass Class : Agro</b>						
<b>District</b>	<b>Taluk</b>	<b>Area (Kha)</b>	<b>Crop Production (Kt/Yr)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>
Bathinda	Talwandi Sabo	245.1	850.5	1904.9	1291.1	171.2
Firozpur	Abohar	234.1	1079.4	1785.6	1182.5	156.9
Firozpur	Fazilka	182.6	696.5	1366.3	903.3	117.0
Sangrur	Barnala	243.3	1245.6	1845.0	877.9	108.9
Muktsar	Malout	182.8	695.5	1450.5	868.9	116.7
Faridkot	Faridkot	177.1	879.8	1344.4	744.4	95.9
Moga	Moga	171.8	802.0	1228.1	727.9	89.7

District	Taluk	Area (Kha)	Crop Production (Kt/Yr)	Biomass Generation (Kt/Yr)	Biomass Surplus (Kt/Yr)	Power Potential (Mwe)
Patiala	Patiala	185.5	796.3	1401.5	655.3	80.9
Firozpur	Jalalabad	170.1	701.8	1242.5	613.7	77.7
Mansa	Sardulgarh	104.9	344.3	812.6	610.8	81.1
Gurdaspur	Gurdaspur	217.3	1691.2	1422.6	595.1	74.3
Muktsar	Giddarbaha	133.5	715.6	1060.8	562.4	76.6
Patiala	Rajpura	155.2	657.9	1157.3	560.0	69.0
Sangrur	Sangrur	147.5	632.5	1148.2	546.9	68.8
Mansa	Mansa	130.8	469.5	1004.5	532.5	71.6
Bathinda	Bathinda	139.2	537.4	1063.0	526.9	72.3
Amritsar	Tarn-Taran	175.9	814.8	1191.0	524.3	65.1
Bathinda	Rampura Phul	118.8	418.9	943.5	517.3	71.5
Amritsar	Patti	173.2	661.1	1168.2	516.3	64.1
Ludhiana	Jagraon	128.9	615.4	1011.4	457.4	56.6
Sangrur	Moonak	122.0	531.5	935.9	457.2	56.4
Sangrur	Sunam	95.0	387.8	700.0	430.2	53.0
Jalandhar	Phillaur	129.3	751.0	880.4	408.5	50.5
Muktsar	Muktsar	87.6	402.7	671.4	386.6	51.6
Sangrur	Malerkotla	98.2	491.2	760.3	360.8	45.0
Moga	Nihal Singhwala	95.9	397.5	717.6	350.6	43.8
Kapurthala	Kapurthala	104.5	549.9	740.8	342.8	42.4
Gurdaspur	Batala	113.2	617.4	721.5	337.1	41.6
Firozpur	Firozpur	134.7	682.9	1026.8	337.0	44.6
Ludhiana	Ludhiana(East)	89.8	398.2	705.3	334.2	41.4
Fatehgarh Sahib	Fatehgarh Sahib	92.3	614.6	716.9	332.2	41.1
Sangrur	Dhuri	87.8	377.7	711.0	319.0	41.0
Amritsar	Ajnala	108.8	419.2	744.6	312.8	39.0
Nawanshahr	Nawanshahr	104.9	813.8	696.0	287.4	35.9
Ludhiana	Samrala	78.4	420.4	616.5	284.0	35.1
Mansa	Budhlada	93.5	353.5	692.2	278.9	37.2
Patiala	Nabha	73.6	573.3	543.3	250.7	31.1
Ludhiana	Payal	70.6	690.7	526.9	232.3	29.0
Ludhiana	Ludhiana(West)	62.4	274.2	482.3	225.7	27.9
Amritsar	Baba Bakala	83.7	718.9	522.6	221.9	27.7
Amritsar	Amritsar-I	69.9	263.1	475.6	216.2	27.1
Gurdaspur	Pathankot	74.8	478.6	454.6	216.1	26.7
Hoshiarpur	Mukerian	89.1	578.3	499.9	215.5	26.8

District	Taluk	Area (Kha)	Crop Production (Kt/Yr)	Biomass Generation (Kt/Yr)	Biomass Surplus (Kt/Yr)	Power Potential (Mwe)
Jalandhar	Nakodar	70.8	488.4	492.9	215.4	26.8
Patiala	Dera Bassi	54.8	254.2	394.7	212.2	26.0
Ludhiana	Raikot	57.3	273.7	445.4	210.2	25.9
Kapurthala	Sultanpur Lodhi	57.0	261.3	389.7	209.5	25.6
Amritsar	Amritsar-Ii	73.0	396.6	506.3	197.9	24.9
Moga	Bagha Purana	74.5	358.6	604.4	192.8	25.2
Jalandhar	Jalandhar-I	66.5	465.7	457.8	191.9	24.0
Hoshiarpur	Hoshiarpur	109.3	467.2	720.9	190.4	24.9
Rupnagar	Rupnagar	77.3	351.8	476.0	190.2	23.8
Firozpur	Zira	67.1	307.1	519.5	180.9	23.9
Patiala	Samana	60.0	326.5	488.5	173.0	22.0
Faridkot	Jaitu	49.0	325.8	390.8	168.9	22.7
Kapurthala	Phagwara	47.2	354.3	332.9	145.9	18.1
Ludhiana	Khanna	32.0	137.7	240.7	131.4	16.0
Fatehgarh Sahib	Bassi Pathana	34.3	218.0	261.1	130.6	16.0
Amritsar	Khadur Sahib	33.8	112.7	195.6	120.5	14.6
Rupnagar	Anandpur Sahib	49.6	377.6	294.3	117.2	14.7
Jalandhar	Shahkot	44.2	372.0	334.3	108.0	13.9
Fatehgarh Sahib	Khamanon	21.9	145.3	150.6	107.6	12.9
Hoshiarpur	Garhshankar	46.9	472.8	264.0	92.7	11.8
Gurdaspur	Dera Baba Nanak	38.0	187.4	286.6	92.5	11.9
Hoshiarpur	Dasua	50.5	656.7	279.1	91.7	11.8
Nawanshahr	Balachaur	42.0	430.4	296.8	90.8	11.8
Jalandhar	Jalandhar-Ii	29.9	212.9	207.4	88.8	11.1
Rupnagar	Kharar	39.7	237.1	239.0	88.7	11.2
Fatehgarh Sahib	Amloh	24.7	145.9	206.7	65.5	8.4
Kapurthala	Bhulath	23.3	133.7	187.4	56.2	7.3
Gurdaspur	Dhar Kalan	12.2	216.5	68.3	33.4	4.1
Rupnagar	S.A.S.Nagar(Mohali)	17.8	175.2	109.1	33.0	4.3
<b>Total</b>		<b>6981.8</b>	<b>35955.7</b>	<b>50935.4</b>	<b>24880.3</b>	<b>3177.6</b>

## District Level Residue Wise

<b>District level Residue-wise Data for Amritsar; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	319.0	958.1	1437.1	1149.7	138.0
Wheat	Stalks	363.0	1700.0	2550.1	510.0	66.3
Wheat	Pod	363.0	1700.0	510.0	255.0	35.7
Paddy	Husk	319.0	958.1	191.6	153.3	16.9
Sugarcane	Tops & Leaves	10.2	697.4	34.9	8.7	1.2
Cotton	Stalks	2.0	5.4	7.7	7.0	0.98
Maize	Stalks	6.0	15.0	30.0	6.0	0.78
Cotton	Bollshell	2.0	5.4	5.9	5.3	0.74
Cotton	Husk	2.0	5.4	5.9	5.3	0.74
Maize	Cobs	6.0	15.0	7.5	2.3	0.32
Mustard	Stalks	2.6	2.7	4.8	2.4	0.31
Mustard	Husk	2.6	2.7	2.4	2.3	0.27
Arhar	Stalks	1.4	1.2	3.0	0.90	0.12
Til	Stalks	9.0	3.1	7.8	0.78	0.10
Others	Others	4.3	3.0	4.8	0.53	0.068
Gram	Stalks	0.51	0.44	0.49	0.44	0.057
<b>Total</b>		<b>718.2</b>	<b>3386.4</b>	<b>4804.0</b>	<b>2109.9</b>	<b>262.5</b>

<b>District level Residue-wise Data for Bathinda; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	162.1	462.0	616.0	554.4	77.6
Cotton	Bollshell	162.1	462.0	508.2	457.4	64.0
Cotton	Husk	162.1	462.0	508.2	457.4	64.0
Paddy	Straw	82.5	308.7	463.0	370.4	44.4
Wheat	Stalks	243.0	949.1	1423.6	284.7	37.0
Wheat	Pod	243.0	949.1	284.7	142.4	19.9
Paddy	Husk	82.5	308.7	61.7	49.4	5.4
Mustard	Stalks	7.3	8.9	16.1	8.0	1.0
Mustard	Husk	7.3	8.9	8.0	7.6	0.92
Others	Others	3.7	2.3	4.9	1.2	0.16

<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Barley	Stalks	3.0	8.5	11.0	1.1	0.14
Sugarcane	Tops & Leaves	1.0	66.1	3.3	0.83	0.12
Maize	Stalks	0.46	1.3	2.6	0.52	0.068
<b>Total</b>		<b>503.2</b>	<b>1806.9</b>	<b>3911.4</b>	<b>2335.4</b>	<b>315.0</b>

<b>District level Residue-wise Data for Faridkot; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	70.0	267.6	401.5	321.2	38.5
Wheat	Stalks	112.0	500.3	750.5	150.1	19.5
Cotton	Stalks	36.1	96.9	137.2	123.5	17.3
Cotton	Bollshell	36.1	96.9	106.6	96.0	13.4
Cotton	Husk	36.1	96.9	106.6	96.0	13.4
Wheat	Pod	112.0	500.3	150.1	75.0	10.5
Paddy	Husk	70.0	267.6	53.5	42.8	4.7
Sugarcane	Tops & Leaves	3.8	334.7	16.7	4.2	0.59
Mustard	Stalks	1.2	1.9	3.4	1.7	0.22
Mustard	Husk	1.2	1.9	1.7	1.6	0.20
Others	Others	2.5	2.8	4.8	0.77	0.10
Maize	Stalks	0.45	1.3	2.6	0.51	0.067
<b>Total</b>		<b>226.0</b>	<b>1205.6</b>	<b>1735.2</b>	<b>913.3</b>	<b>118.6</b>

<b>District level Residue-wise Data for Fatehgarh Sahib; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	81.0	323.9	485.8	388.7	46.6
Wheat	Stalks	85.0	418.7	628.0	125.6	16.3
Wheat	Pod	85.0	418.7	125.6	62.8	8.8
Paddy	Husk	81.0	323.9	64.8	51.8	5.7
Sugarcane	Tops & Leaves	5.1	374.8	18.7	4.7	0.66
Maize	Stalks	1.0	3.2	6.5	1.3	0.17
Maize	Cobs	1.0	3.2	1.6	0.49	0.068
Barley	Stalks	0.94	3.2	4.2	0.42	0.054
Others	Others	0.13	0.087	0.18	0.035	0.0044
<b>Total</b>		<b>173.2</b>	<b>1123.8</b>	<b>1335.3</b>	<b>635.8</b>	<b>78.4</b>

<b>District level Residue-wise Data for Firozpur; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	230.4	865.0	1297.5	1038.0	124.6
Cotton	Stalks	144.9	385.6	550.8	495.7	69.4
Wheat	Stalks	383.1	1661.0	2491.6	498.3	64.8
Cotton	Bollshell	144.9	385.6	424.1	381.7	53.4
Cotton	Husk	144.9	385.6	424.1	381.7	53.4
Wheat	Pod	383.1	1661.0	498.3	249.2	34.9
Paddy	Husk	230.4	865.0	173.0	138.4	15.2
Mustard	Stalks	11.4	14.7	26.4	13.2	1.7
Mustard	Husk	11.4	14.7	13.2	12.5	1.5
Sugarcane	Tops & Leaves	9.2	532.3	26.6	6.7	0.93
Others	Others	7.9	3.9	7.4	0.96	0.13
Barley	Stalks	1.3	4.0	5.2	0.52	0.068
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>788.6</b>	<b>3467.7</b>	<b>5940.7</b>	<b>3217.3</b>	<b>420.1</b>

<b>District level Residue-wise Data for Gurdaspur; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	194.1	571.3	857.0	685.6	82.3
Wheat	Stalks	217.2	1012.1	1518.1	303.6	39.5
Wheat	Pod	217.2	1012.1	303.6	151.8	21.3
Paddy	Husk	194.1	571.3	114.3	91.4	10.1
Sugarcane	Tops & Leaves	23.1	1574.2	78.7	19.7	2.8
Maize	Stalks	13.0	26.6	53.3	10.7	1.4
Maize	Cobs	13.0	26.6	13.3	4.0	0.56
Mustard	Stalks	3.5	3.7	6.6	3.3	0.43
Mustard	Husk	3.5	3.7	3.3	3.1	0.38
Others	Others	4.5	3.1	5.4	0.86	0.11
<b>Total</b>		<b>455.4</b>	<b>3191.0</b>	<b>2953.5</b>	<b>1274.0</b>	<b>158.7</b>

<b>District level Residue-wise Data for Hoshiarpur; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.5	172.2	258.3	206.6	24.8
Wheat	Stalks	139.9	505.8	758.6	151.7	19.7
Wheat	Pod	139.9	505.8	151.7	75.9	10.6
Maize	Stalks	65.3	190.2	380.5	76.1	9.9
Maize	Cobs	65.3	190.2	95.1	28.5	4.0
Paddy	Husk	60.5	172.2	34.4	27.5	3.0
Sugarcane	Tops & Leaves	21.1	1298.0	64.9	16.2	2.3
Mustard	Stalks	2.5	2.5	4.6	2.3	0.30
Mustard	Husk	2.5	2.5	2.3	2.2	0.26
Groundnut	Stalks	2.9	2.7	5.4	1.1	0.14
Others	Others	2.2	1.7	3.4	0.94	0.13
Sunflower	Stalks	1.2	2.0	3.9	0.78	0.10
Groundnut	Shell	2.9	2.7	0.81	0.57	0.068
<b>Total</b>		<b>295.7</b>	<b>2175.0</b>	<b>1763.9</b>	<b>590.4</b>	<b>75.3</b>

<b>District level Residue-wise Data for Jalandhar; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	132.0	444.8	667.3	533.8	64.1
Wheat	Stalks	167.2	786.4	1179.6	235.9	30.7
Wheat	Pod	167.2	786.4	235.9	118.0	16.5
Paddy	Husk	132.0	444.8	89.0	71.2	7.8
Maize	Stalks	16.3	49.3	98.6	19.7	2.6
Sugarcane	Tops & Leaves	16.0	998.5	49.9	12.5	1.7
Maize	Cobs	16.3	49.3	24.6	7.4	1.0
Mustard	Stalks	2.1	3.0	5.3	2.7	0.35
Cotton	Stalks	0.71	2.0	2.7	2.4	0.34
Mustard	Husk	2.1	3.0	2.7	2.5	0.30
Cotton	Bollshell	0.71	2.0	2.2	2.0	0.28
Cotton	Husk	0.71	2.0	2.2	2.0	0.28
Sunflower	Stalks	2.6	3.6	7.1	1.4	0.19
Arhar	Stalks	1.0	0.92	2.3	0.69	0.089
Others	Others	2.6	1.5	3.3	0.43	0.056
<b>Total</b>		<b>340.6</b>	<b>2290.1</b>	<b>2372.8</b>	<b>1012.7</b>	<b>126.3</b>

<b>District level Residue-wise Data for Kapurthala; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	105.1	364.9	547.4	437.9	52.5
Wheat	Stalks	114.0	538.3	807.5	161.5	21.0
Wheat	Pod	114.0	538.3	161.5	80.7	11.3
Paddy	Husk	105.1	364.9	73.0	58.4	6.4
Maize	Stalks	4.0	13.8	27.6	5.5	0.72
Sugarcane	Tops & Leaves	6.1	378.8	18.9	4.7	0.66
Maize	Cobs	4.0	13.8	6.9	2.1	0.29
Mustard	Stalks	0.82	1.1	1.9	0.95	0.12
Others	Others	0.65	0.49	1.4	0.87	0.12
Mustard	Husk	0.82	1.1	0.95	0.90	0.11
Sunflower	Stalks	1.3	1.9	3.8	0.76	0.099
<b>Total</b>		<b>232.0</b>	<b>1299.3</b>	<b>1650.9</b>	<b>754.3</b>	<b>93.4</b>

<b>District level Residue-wise Data for Ludhiana; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	235.2	916.4	1374.6	1099.7	132.0
Wheat	Stalks	258.2	1309.7	1964.5	392.9	51.1
Wheat	Pod	258.2	1309.7	392.9	196.5	27.5
Paddy	Husk	235.2	916.4	183.3	146.6	16.1
Sugarcane	Tops & Leaves	8.1	548.3	27.4	6.9	0.96
Maize	Stalks	5.1	17.3	34.7	6.9	0.90
Cotton	Stalks	1.7	4.6	6.6	5.9	0.83
Cotton	Bollshell	1.7	4.6	5.0	4.5	0.63
Cotton	Husk	1.7	4.6	5.0	4.5	0.63
Mustard	Stalks	2.3	3.2	5.7	2.9	0.37
Maize	Cobs	5.1	17.3	8.7	2.6	0.36
Mustard	Husk	2.3	3.2	2.9	2.7	0.33
Arhar	Stalks	2.3	1.9	4.6	1.4	0.18
Barley	Stalks	2.0	6.7	8.7	0.87	0.11
Others	Others	4.5	2.3	3.8	0.48	0.061
<b>Total</b>		<b>519.4</b>	<b>2810.3</b>	<b>4028.4</b>	<b>1875.3</b>	<b>232.0</b>



<b>District level Residue-wise Data for Mansa; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	88.3	240.2	335.6	302.1	42.3
Paddy	Straw	69.3	246.9	370.3	296.3	35.6
Cotton	Bollshell	88.3	240.2	264.3	237.8	33.3
Cotton	Husk	88.3	240.2	264.3	237.8	33.3
Wheat	Stalks	166.3	672.6	1008.8	201.8	26.2
Wheat	Pod	166.3	672.6	201.8	100.9	14.1
Paddy	Husk	69.3	246.9	49.4	39.5	4.3
Mustard	Stalks	2.4	2.6	4.7	2.3	0.30
Mustard	Husk	2.4	2.6	2.3	2.2	0.27
Others	Others	2.4	3.9	5.3	0.96	0.13
Maize	Stalks	0.45	1.3	2.5	0.51	0.066
<b>Total</b>		<b>329.1</b>	<b>1167.4</b>	<b>2509.3</b>	<b>1422.1</b>	<b>189.9</b>

<b>District level Residue-wise Data for Moga; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	154.0	586.2	879.3	703.5	84.4
Wheat	Stalks	167.0	778.9	1168.4	233.7	30.4
Wheat	Pod	167.0	778.9	233.7	116.8	16.4
Paddy	Husk	154.0	586.2	117.2	93.8	10.3
Cotton	Stalks	14.3	35.6	54.5	49.1	6.9
Cotton	Bollshell	14.3	35.6	39.1	35.2	4.9
Cotton	Husk	14.3	35.6	39.1	35.2	4.9
Sugarcane	Tops & Leaves	2.0	152.2	7.6	1.9	0.27
Maize	Stalks	1.0	2.7	5.5	1.1	0.14
Others	Others	3.8	2.4	4.1	0.57	0.073
Maize	Cobs	1.0	2.7	1.4	0.41	0.057
<b>Total</b>		<b>342.2</b>	<b>1558.1</b>	<b>2550.0</b>	<b>1271.3</b>	<b>158.7</b>

<b>District level Residue-wise Data for Muktsar; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	125.5	337.7	477.1	429.4	60.1
Cotton	Bollshell	125.5	337.7	371.5	334.3	46.8
Cotton	Husk	125.5	337.7	371.5	334.3	46.8
Paddy	Straw	66.3	243.4	365.1	292.1	35.1
Wheat	Stalks	196.5	832.7	1249.1	249.8	32.5
Wheat	Pod	196.5	832.7	249.8	124.9	17.5
Paddy	Husk	66.3	243.4	48.7	38.9	4.3
Sugarcane	Tops & Leaves	5.0	382.8	19.1	4.8	0.67
Mustard	Stalks	2.6	3.6	6.4	3.2	0.42
Mustard	Husk	2.6	3.6	3.2	3.0	0.37
Others	Others	4.5	3.0	6.4	1.3	0.17
Barley	Stalks	3.0	9.3	12.2	1.2	0.16
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>403.9</b>	<b>1813.9</b>	<b>3182.7</b>	<b>1817.9</b>	<b>244.9</b>

<b>District level Residue-wise Data for Nawanshahr; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	45.0	142.7	214.0	171.2	20.5
Wheat	Stalks	71.1	324.5	486.8	97.4	12.7
Wheat	Pod	71.1	324.5	97.4	48.7	6.8
Maize	Stalks	18.2	51.5	102.9	20.6	2.7
Paddy	Husk	45.0	142.7	28.5	22.8	2.5
Sugarcane	Tops & Leaves	12.2	725.0	36.3	9.1	1.3
Maize	Cobs	18.2	51.5	25.7	7.7	1.1
Others	Others	0.42	0.40	1.1	0.75	0.099
<b>Total</b>		<b>146.9</b>	<b>1244.1</b>	<b>992.8</b>	<b>378.2</b>	<b>47.7</b>

<b>District level Residue-wise Data for Patiala; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	251.0	908.5	1362.8	1090.2	130.8
Wheat	Stalks	270.0	1334.7	2002.1	400.4	52.1
Wheat	Pod	270.0	1334.7	400.4	200.2	28.0
Paddy	Husk	251.0	908.5	181.7	145.4	16.0
Sugarcane	Tops & Leaves	5.1	357.8	17.9	4.5	0.63
Cotton	Stalks	0.92	2.4	3.5	3.1	0.44
Cotton	Bollshell	0.92	2.4	2.7	2.4	0.34
Cotton	Husk	0.92	2.4	2.7	2.4	0.34
Maize	Stalks	2.0	4.7	9.3	1.9	0.24
Maize	Cobs	2.0	4.7	2.3	0.70	0.098
Others	Others	0.033	0.042	0.054	0.0054	0.00069
<b>Total</b>		<b>529.1</b>	<b>2608.2</b>	<b>3985.4</b>	<b>1851.2</b>	<b>229.0</b>

<b>District level Residue-wise Data for Rupnagar; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	51.4	164.3	246.4	197.2	23.7
Wheat	Stalks	89.6	353.3	529.9	106.0	13.8
Wheat	Pod	89.6	353.3	106.0	53.0	7.4
Maize	Stalks	29.2	66.3	132.6	26.5	3.4
Paddy	Husk	51.4	164.3	32.9	26.3	2.9
Maize	Cobs	29.2	66.3	33.2	9.9	1.4
Sugarcane	Tops & Leaves	10.2	553.3	27.7	6.9	0.97
Others	Others	3.0	3.6	7.1	1.5	0.19
Mustard	Stalks	1.1	1.0	1.8	0.90	0.12
Mustard	Husk	1.1	1.0	0.90	0.86	0.10
<b>Total</b>		<b>184.5</b>	<b>1141.8</b>	<b>1118.5</b>	<b>429.0</b>	<b>54.0</b>

<b>District level Residue-wise Data for Sangrur; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	355.7	1388.0	2082.0	1665.6	199.9
Wheat	Stalks	392.1	1890.7	2836.1	567.2	73.7
Wheat	Pod	392.1	1890.7	567.2	283.6	39.7
Paddy	Husk	355.7	1388.0	277.6	222.1	24.4
Cotton	Stalks	28.0	74.1	106.4	95.8	13.4
Cotton	Bollshell	28.0	74.1	81.5	73.3	10.3
Cotton	Husk	28.0	74.1	81.5	73.3	10.3
Sugarcane	Tops & Leaves	4.0	279.1	14.0	3.5	0.49
Barley	Stalks	5.8	23.9	31.1	3.1	0.40
Maize	Stalks	2.0	5.6	11.1	2.2	0.29
Others	Others	4.1	3.0	5.3	1.0	0.13
Maize	Cobs	2.0	5.6	2.8	0.83	0.12
Bajra	Stalks	2.1	2.0	4.0	0.40	0.052
<b>Total</b>		<b>793.9</b>	<b>3666.3</b>	<b>6100.5</b>	<b>2992.0</b>	<b>373.2</b>

## District Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Amritsar ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Tarn-Taran	175.9	814.8	1191.0	524.3	65.1
Patti	173.2	661.1	1168.2	516.3	64.1
Ajnala	108.8	419.2	744.6	312.8	39.0
Baba Bakala	83.7	718.9	522.6	221.9	27.7
Amritsar-I	69.9	263.1	475.6	216.2	27.1
Amritsar-Ii	73.0	396.6	506.3	197.9	24.9
Khadur Sahib	33.8	112.7	195.6	120.5	14.6
<b>Total</b>		<b>718.2</b>	<b>3386.4</b>	<b>4804.0</b>	<b>2109.9</b>

<b>DistrictLevel Taluk-wise Data for Bathinda ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Talwandi Sabo	245.1	850.5	1904.9	1291.1	171.2
Bathinda	139.2	537.4	1063.0	526.9	72.3
Rampura Phul	118.8	418.9	943.5	517.3	71.5
<b>Total</b>		<b>503.2</b>	<b>1806.9</b>	<b>3911.4</b>	<b>2335.4</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Faridkot	177.1	879.8	1344.4	744.4	95.9
Jaitu	49.0	325.8	390.8	168.9	22.7
<b>Total</b>		<b>226.0</b>	<b>1205.6</b>	<b>1735.2</b>	<b>913.3</b>

<b>DistrictLevel Taluk-wise Data for Fatehgarh Sahib ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Fatehgarh Sahib	92.3	614.6	716.9	332.2	41.1
Bassi Pathana	34.3	218.0	261.1	130.6	16.0
Khamanon	21.9	145.3	150.6	107.6	12.9
Amloh	24.7	145.9	206.7	65.5	8.4
<b>Total</b>		<b>173.2</b>	<b>1123.8</b>	<b>1335.3</b>	<b>635.8</b>

<b>DistrictLevel Taluk-wise Data for Firozpur ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Abohar	234.1	1079.4	1785.6	1182.5	156.9
Fazilka	182.6	696.5	1366.3	903.3	117.0
Jalalabad	170.1	701.8	1242.5	613.7	77.7
Firozpur	134.7	682.9	1026.8	337.0	44.6
Zira	67.1	307.1	519.5	180.9	23.9
<b>Total</b>		<b>788.6</b>	<b>3467.7</b>	<b>5940.7</b>	<b>3217.3</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Gurdaspur	217.3	1691.2	1422.6	595.1	74.3
Batala	113.2	617.4	721.5	337.1	41.6
Pathankot	74.8	478.6	454.6	216.1	26.7
Dera Baba Nanak	38.0	187.4	286.6	92.5	11.9
Dhar Kalan	12.2	216.5	68.3	33.4	4.1
<b>Total</b>		<b>455.4</b>	<b>3191.0</b>	<b>2953.5</b>	<b>1274.0</b>

<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Mukerian	89.1	578.3	499.9	215.5	26.8
Hoshiarpur	109.3	467.2	720.9	190.4	24.9
Dasua	50.5	656.7	279.1	91.7	11.8
Garhshankar	46.9	472.8	264.0	92.7	11.8
<b>Total</b>		<b>295.7</b>	<b>2175.0</b>	<b>1763.9</b>	<b>590.4</b>

<b>DistrictLevel Taluk-wise Data for Jalandhar ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Phillaur	129.3	751.0	880.4	408.5	50.5
Nakodar	70.8	488.4	492.9	215.4	26.8
Jalandhar-I	66.5	465.7	457.8	191.9	24.0
Shahkot	44.2	372.0	334.3	108.0	13.9
Jalandhar-Ii	29.9	212.9	207.4	88.8	11.1
<b>Total</b>		<b>340.6</b>	<b>2290.1</b>	<b>2372.8</b>	<b>1012.7</b>

<b>DistrictLevel Taluk-wise Data for Kapurthala ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Kapurthala	104.5	549.9	740.8	342.8	42.4
Sultanpur Lodhi	57.0	261.3	389.7	209.5	25.6
Phagwara	47.2	354.3	332.9	145.9	18.1
Bhulath	23.3	133.7	187.4	56.2	7.3
<b>Total</b>		<b>232.0</b>	<b>1299.3</b>	<b>1650.9</b>	<b>754.3</b>

<b>DistrictLevel Taluk-wise Data for Ludhiana ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jagraon	128.9	615.4	1011.4	457.4	56.6
Ludhiana(East)	89.8	398.2	705.3	334.2	41.4
Samrala	78.4	420.4	616.5	284.0	35.1
Payal	70.6	690.7	526.9	232.3	29.0
Ludhiana(West)	62.4	274.2	482.3	225.7	27.9
Raikot	57.3	273.7	445.4	210.2	25.9
Khanna	32.0	137.7	240.7	131.4	16.0
<b>Total</b>		<b>519.4</b>	<b>2810.3</b>	<b>4028.4</b>	<b>1875.3</b>

<b>DistrictLevel Taluk-wise Data for Mansa ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sardulgarh	104.9	344.3	812.6	610.8	81.1
Mansa	130.8	469.5	1004.5	532.5	71.6
Budhlada	93.5	353.5	692.2	278.9	37.2
<b>Total</b>		<b>329.1</b>	<b>1167.4</b>	<b>2509.3</b>	<b>1422.1</b>

<b>DistrictLevel Taluk-wise Data for Moga ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Moga	171.8	802.0	1228.1	727.9	89.7
Nihal Singhwala	95.9	397.5	717.6	350.6	43.8
Bagha Purana	74.5	358.6	604.4	192.8	25.2
<b>Total</b>		<b>342.2</b>	<b>1558.1</b>	<b>2550.0</b>	<b>1271.3</b>

<b>DistrictLevel Taluk-wise Data for Muktsar ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Malout	182.8	695.5	1450.5	868.9	116.7
Giddarbaha	133.5	715.6	1060.8	562.4	76.6
Muktsar	87.6	402.7	671.4	386.6	51.6
<b>Total</b>		<b>403.9</b>	<b>1813.9</b>	<b>3182.7</b>	<b>1817.9</b>

<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nawanshahr	104.9	813.8	696.0	287.4	35.9
Balachaur	42.0	430.4	296.8	90.8	11.8
<b>Total</b>		<b>146.9</b>	<b>1244.1</b>	<b>992.8</b>	<b>378.2</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Patiala	185.5	796.3	1401.5	655.3	80.9
Rajpura	155.2	657.9	1157.3	560.0	69.0
Nabha	73.6	573.3	543.3	250.7	31.1
Dera Bassi	54.8	254.2	394.7	212.2	26.0
Samana	60.0	326.5	488.5	173.0	22.0
<b>Total</b>		<b>529.1</b>	<b>2608.2</b>	<b>3985.4</b>	<b>1851.2</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Rupnagar	77.3	351.8	476.0	190.2	23.8
Anandpur Sahib	49.6	377.6	294.3	117.2	14.7
Kharar	39.7	237.1	239.0	88.7	11.2
S.A.S.Nagar(Mohali)	17.8	175.2	109.1	33.0	4.3
<b>Total</b>		<b>184.5</b>	<b>1141.8</b>	<b>1118.5</b>	<b>429.0</b>



<b>DistrictLevel Taluk-wise Data for Sangrur ; Biomass Class : Agro</b>					
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Barnala	243.3	1245.6	1845.0	877.9	108.9
Sangrur	147.5	632.5	1148.2	546.9	68.8
Moonak	122.0	531.5	935.9	457.2	56.4
Sunam	95.0	387.8	700.0	430.2	53.0
Malerkotla	98.2	491.2	760.3	360.8	45.0
Dhuri	87.8	377.7	711.0	319.0	41.0
<b>Total</b>		<b>793.9</b>	<b>3666.3</b>	<b>6100.5</b>	<b>2992.0</b>

### Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Ajnala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	44.6	134.0	201.0	160.8	19.3
Wheat	Stalks	59.9	280.3	420.4	84.1	10.9
Wheat	Pod	59.9	280.3	84.1	42.0	5.9
Paddy	Husk	44.6	134.0	26.8	21.4	2.4
Mustard	Stalks	1.5	1.5	2.7	1.3	0.17
Mustard	Husk	1.5	1.5	1.3	1.3	0.15
Maize	Stalks	0.97	2.4	4.8	0.97	0.13
Others	Others	1.9	0.94	2.2	0.46	0.060
Maize	Cobs	0.97	2.4	1.2	0.36	0.051
<b>Total</b>		<b>108.8</b>	<b>419.2</b>	<b>744.6</b>	<b>312.8</b>	<b>39.0</b>

<b>Taluk level Residue-wise Data for Amritsar-I ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	30.3	91.0	136.5	109.2	13.1
Wheat	Stalks	35.1	164.3	246.5	49.3	6.4
Wheat	Pod	35.1	164.3	49.3	24.7	3.5
Paddy	Husk	30.3	91.0	18.2	14.6	1.6

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Cotton	Stalks	2.0	5.2	7.6	6.8	0.96
Cotton	Bollshell	2.0	5.2	5.8	5.2	0.73
Cotton	Husk	2.0	5.2	5.8	5.2	0.73
Others	Others	1.9	1.2	3.3	0.75	0.099
Maize	Stalks	0.55	1.4	2.7	0.54	0.070
<b>Total</b>		<b>69.9</b>	<b>263.1</b>	<b>475.6</b>	<b>216.2</b>	<b>27.1</b>

<b>Taluk level Residue-wise Data for Amritsar-Ii ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	25.1	75.5	113.2	90.6	10.9
Wheat	Stalks	42.8	200.2	300.3	60.1	7.8
Wheat	Pod	42.8	200.2	60.1	30.0	4.2
Paddy	Husk	25.1	75.5	15.1	12.1	1.3
Sugarcane	Tops & Leaves	1.7	116.1	5.8	1.5	0.20
Maize	Stalks	1.2	2.9	5.8	1.2	0.15
Mustard	Stalks	0.97	1.00	1.8	0.90	0.12
Mustard	Husk	0.97	1.00	0.90	0.85	0.10
Maize	Cobs	1.2	2.9	1.4	0.43	0.061
Others	Others	1.3	0.87	1.9	0.34	0.044
<b>Total</b>		<b>73.0</b>	<b>396.6</b>	<b>506.3</b>	<b>197.9</b>	<b>24.9</b>

<b>Taluk level Residue-wise Data for Baba Bakala ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	32.7	98.2	147.4	117.9	14.1
Wheat	Stalks	38.3	179.2	268.8	53.8	7.0
Wheat	Pod	38.3	179.2	53.8	26.9	3.8
Paddy	Husk	32.7	98.2	19.6	15.7	1.7
Sugarcane	Tops & Leaves	6.4	436.6	21.8	5.5	0.76
Maize	Stalks	0.96	2.4	4.8	0.96	0.12
Others	Others	5.4	2.5	5.3	0.85	0.11
Maize	Cobs	0.96	2.4	1.2	0.36	0.050
<b>Total</b>		<b>83.7</b>	<b>718.9</b>	<b>522.6</b>	<b>221.9</b>	<b>27.7</b>

<b>Taluk level Residue-wise Data for Khadur Sahib ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	25.5	76.7	115.0	92.0	11.0
Wheat	Stalks	7.5	35.1	52.6	10.5	1.4
Paddy	Husk	25.5	76.7	15.3	12.3	1.3
Wheat	Pod	7.5	35.1	10.5	5.3	0.74
Others	Others	0.75	0.90	2.1	0.45	0.059
<b>Total</b>		<b>33.8</b>	<b>112.7</b>	<b>195.6</b>	<b>120.5</b>	<b>14.6</b>

<b>Taluk level Residue-wise Data for Patti ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.0	240.4	360.6	288.5	34.6
Wheat	Stalks	88.9	416.3	624.5	124.9	16.2
Wheat	Pod	88.9	416.3	124.9	62.4	8.7
Paddy	Husk	80.0	240.4	48.1	38.5	4.2
Maize	Stalks	1.2	3.0	6.1	1.2	0.16
Maize	Cobs	1.2	3.0	1.5	0.46	0.064
Others	Others	3.0	1.4	2.6	0.34	0.044
<b>Total</b>		<b>173.2</b>	<b>661.1</b>	<b>1168.2</b>	<b>516.3</b>	<b>64.1</b>

<b>Taluk level Residue-wise Data for Tarn-Taran ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.7	242.3	363.4	290.7	34.9
Wheat	Stalks	90.7	424.6	636.9	127.4	16.6
Wheat	Pod	90.7	424.6	127.4	63.7	8.9
Paddy	Husk	80.7	242.3	48.5	38.8	4.3
Sugarcane	Tops & Leaves	2.1	144.8	7.2	1.8	0.25
Others	Others	1.5	0.93	3.1	1.0	0.14
Maize	Stalks	0.91	2.3	4.5	0.90	0.12
<b>Total</b>		<b>175.9</b>	<b>814.8</b>	<b>1191.0</b>	<b>524.3</b>	<b>65.1</b>

<b>Taluk level Residue-wise Data for Bathinda ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	38.0	108.3	144.4	130.0	18.2
Cotton	Bollshell	38.0	108.3	119.2	107.2	15.0
Cotton	Husk	38.0	108.3	119.2	107.2	15.0
Wheat	Stalks	90.6	353.8	530.8	106.2	13.8
Wheat	Pod	90.6	353.8	106.2	53.1	7.4
Paddy	Straw	2.7	10.2	15.4	12.3	1.5
Mustard	Stalks	3.1	3.7	6.7	3.4	0.44
Mustard	Husk	3.1	3.7	3.4	3.2	0.38
Paddy	Husk	2.7	10.2	2.0	1.6	0.18
Others	Others	1.5	1.1	3.3	0.80	0.10
Barley	Stalks	2.0	5.6	7.2	0.72	0.094
Sugarcane	Tops & Leaves	0.82	53.2	2.7	0.66	0.093
Maize	Stalks	0.46	1.3	2.6	0.52	0.068
<b>Total</b>		<b>139.2</b>	<b>537.4</b>	<b>1063.0</b>	<b>526.9</b>	<b>72.3</b>

<b>Taluk level Residue-wise Data for Rampura Phul ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	42.5	121.1	161.5	145.4	20.4
Cotton	Bollshell	42.5	121.1	133.3	119.9	16.8
Cotton	Husk	42.5	121.1	133.3	119.9	16.8
Wheat	Stalks	71.6	279.7	419.6	83.9	10.9
Wheat	Pod	71.6	279.7	83.9	42.0	5.9
Mustard	Stalks	2.7	3.3	5.9	3.0	0.38
Mustard	Husk	2.7	3.3	3.0	2.8	0.34
Others	Others	2.0	14.8	3.1	0.45	0.060
<b>Total</b>		<b>118.8</b>	<b>418.9</b>	<b>943.5</b>	<b>517.3</b>	<b>71.5</b>

<b>Taluk level Residue-wise Data for Talwandi Sabo ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	79.8	298.4	447.6	358.1	43.0
Cotton	Stalks	81.6	232.5	310.0	279.0	39.1
Cotton	Bollshell	81.6	232.5	255.8	230.2	32.2
Cotton	Husk	81.6	232.5	255.8	230.2	32.2
Wheat	Stalks	80.8	315.5	473.3	94.7	12.3
Wheat	Pod	80.8	315.5	94.7	47.3	6.6
Paddy	Husk	79.8	298.4	59.7	47.7	5.3
Mustard	Stalks	1.6	1.9	3.5	1.7	0.22
Mustard	Husk	1.6	1.9	1.7	1.6	0.20
Others	Others	1.4	2.2	2.8	0.48	0.063
<b>Total</b>		<b>245.1</b>	<b>850.5</b>	<b>1904.9</b>	<b>1291.1</b>	<b>171.2</b>

<b>Taluk level Residue-wise Data for Faridkot ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	65.9	252.1	378.1	302.5	36.3
Wheat	Stalks	78.7	351.6	527.4	105.5	13.7
Cotton	Stalks	27.2	72.9	103.2	92.9	13.0
Cotton	Bollshell	27.2	72.9	80.2	72.2	10.1
Cotton	Husk	27.2	72.9	80.2	72.2	10.1
Wheat	Pod	78.7	351.6	105.5	52.7	7.4
Paddy	Husk	65.9	252.1	50.4	40.3	4.4
Sugarcane	Tops & Leaves	2.3	198.5	9.9	2.5	0.35
Mustard	Stalks	0.97	1.5	2.8	1.4	0.18
Mustard	Husk	0.97	1.5	1.4	1.3	0.16
Others	Others	2.0	3.1	5.2	0.88	0.12
<b>Total</b>		<b>177.1</b>	<b>879.8</b>	<b>1344.4</b>	<b>744.4</b>	<b>95.9</b>

<b>Taluk level Residue-wise Data for Jaitu ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	33.3	148.7	223.0	44.6	5.8
Cotton	Stalks	8.9	24.0	34.0	30.6	4.3
Cotton	Bollshell	8.9	24.0	26.4	23.8	3.3
Cotton	Husk	8.9	24.0	26.4	23.8	3.3
Wheat	Pod	33.3	148.7	44.6	22.3	3.1
Paddy	Straw	4.1	15.5	23.3	18.6	2.2
Paddy	Husk	4.1	15.5	3.1	2.5	0.27
Sugarcane	Tops & Leaves	1.6	136.1	6.8	1.7	0.24
Others	Others	1.2	1.4	3.1	1.0	0.13
<b>Total</b>		<b>49.0</b>	<b>325.8</b>	<b>390.8</b>	<b>168.9</b>	<b>22.7</b>

<b>Taluk level Residue-wise Data for Amloh ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	19.9	98.0	147.0	29.4	3.8
Paddy	Straw	3.8	15.0	22.5	18.0	2.2
Wheat	Pod	19.9	98.0	29.4	14.7	2.1
Paddy	Husk	3.8	15.0	3.0	2.4	0.26
Others	Others	0.59	1.9	3.3	0.55	0.072
Sugarcane	Tops & Leaves	0.42	31.0	1.6	0.39	0.054
<b>Total</b>		<b>24.7</b>	<b>145.9</b>	<b>206.7</b>	<b>65.5</b>	<b>8.4</b>

<b>Taluk level Residue-wise Data for Bassi Pathana ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	17.5	70.0	105.0	84.0	10.1
Wheat	Stalks	15.3	75.4	113.1	22.6	2.9
Wheat	Pod	15.3	75.4	22.6	11.3	1.6
Paddy	Husk	17.5	70.0	14.0	11.2	1.2
Sugarcane	Tops & Leaves	0.97	71.2	3.6	0.89	0.12
Others	Others	0.48	1.4	2.8	0.53	0.071
<b>Total</b>		<b>34.3</b>	<b>218.0</b>	<b>261.1</b>	<b>130.6</b>	<b>16.0</b>

<b>Taluk level Residue-wise Data for Fatehgarh Sahib ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	41.0	163.9	245.9	196.7	23.6
Wheat	Stalks	47.7	234.7	352.1	70.4	9.2
Wheat	Pod	47.7	234.7	70.4	35.2	4.9
Paddy	Husk	41.0	163.9	32.8	26.2	2.9
Sugarcane	Tops & Leaves	2.9	213.5	10.7	2.7	0.37
Maize	Stalks	0.48	1.5	3.1	0.62	0.080
Others	Others	0.29	0.95	2.0	0.36	0.049
<b>Total</b>		<b>92.3</b>	<b>614.6</b>	<b>716.9</b>	<b>332.2</b>	<b>41.1</b>

<b>Taluk level Residue-wise Data for Khamanon ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	18.7	74.9	112.4	89.9	10.8
Paddy	Husk	18.7	74.9	15.0	12.0	1.3
Wheat	Stalks	2.1	10.6	15.9	3.2	0.41
Wheat	Pod	2.1	10.6	3.2	1.6	0.22
Sugarcane	Tops & Leaves	0.80	59.0	3.0	0.74	0.10
Others	Others	0.24	0.81	1.2	0.17	0.023
<b>Total</b>		<b>21.9</b>	<b>145.3</b>	<b>150.6</b>	<b>107.6</b>	<b>12.9</b>

<b>Taluk level Residue-wise Data for Abohar ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	69.2	260.0	390.0	312.0	37.4
Cotton	Stalks	77.6	206.3	294.8	265.3	37.1
Cotton	Bollshell	77.6	206.3	227.0	204.3	28.6
Cotton	Husk	77.6	206.3	227.0	204.3	28.6
Wheat	Stalks	70.8	307.2	460.8	92.2	12.0
Wheat	Pod	70.8	307.2	92.2	46.1	6.5
Paddy	Husk	69.2	260.0	52.0	41.6	4.6
Mustard	Stalks	5.2	6.7	12.1	6.0	0.79
Mustard	Husk	5.2	6.7	6.0	5.7	0.69

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sugarcane	Tops & Leaves	5.1	294.0	14.7	3.7	0.51
Others	Others	5.7	3.9	6.5	0.79	0.10
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>234.1</b>	<b>1079.4</b>	<b>1785.6</b>	<b>1182.5</b>	<b>156.9</b>

<b>Taluk level Residue-wise Data for Fazilka ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	80.5	302.3	453.4	362.7	43.5
Cotton	Stalks	44.1	117.3	167.5	150.8	21.1
Cotton	Bollshell	44.1	117.3	129.0	116.1	16.3
Cotton	Husk	44.1	117.3	129.0	116.1	16.3
Wheat	Stalks	53.0	229.8	344.6	68.9	9.0
Paddy	Husk	80.5	302.3	60.5	48.4	5.3
Wheat	Pod	53.0	229.8	68.9	34.5	4.8
Mustard	Stalks	2.1	2.8	5.0	2.5	0.32
Mustard	Husk	2.1	2.8	2.5	2.4	0.28
Sugarcane	Tops & Leaves	0.72	42.1	2.1	0.53	0.074
Others	Others	2.2	2.3	3.8	0.46	0.059
<b>Total</b>		<b>182.6</b>	<b>696.5</b>	<b>1366.3</b>	<b>903.3</b>	<b>117.0</b>

<b>Taluk level Residue-wise Data for Firozpur ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	113.2	490.9	736.4	147.3	19.1
Wheat	Pod	113.2	490.9	147.3	73.6	10.3
Paddy	Straw	9.6	35.9	53.9	43.1	5.2
Cotton	Stalks	7.1	18.9	27.0	24.3	3.4
Cotton	Bollshell	7.1	18.9	20.8	18.7	2.6
Cotton	Husk	7.1	18.9	20.8	18.7	2.6
Paddy	Husk	9.6	35.9	7.2	5.8	0.63
Mustard	Stalks	1.6	2.1	3.7	1.9	0.24
Sugarcane	Tops & Leaves	2.3	134.2	6.7	1.7	0.23



Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Mustard	Husk	1.6	2.1	1.9	1.8	0.21
Others	Others	0.84	0.84	1.1	0.11	0.015
<b>Total</b>		<b>134.7</b>	<b>682.9</b>	<b>1026.8</b>	<b>337.0</b>	<b>44.6</b>

<b>Taluk level Residue-wise Data for Jalalabad ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	64.7	242.9	364.3	291.5	35.0
Wheat	Stalks	90.6	393.0	589.5	117.9	15.3
Wheat	Pod	90.6	393.0	117.9	58.9	8.3
Cotton	Stalks	11.6	30.9	44.2	39.8	5.6
Cotton	Bollshell	11.6	30.9	34.0	30.6	4.3
Cotton	Husk	11.6	30.9	34.0	30.6	4.3
Paddy	Husk	64.7	242.9	48.6	38.9	4.3
Mustard	Stalks	2.2	2.9	5.2	2.6	0.34
Mustard	Husk	2.2	2.9	2.6	2.4	0.29
Sugarcane	Tops & Leaves	0.54	31.7	1.6	0.40	0.055
Others	Others	0.36	0.41	0.64	0.064	0.0083
<b>Total</b>		<b>170.1</b>	<b>701.8</b>	<b>1242.5</b>	<b>613.7</b>	<b>77.7</b>

<b>Taluk level Residue-wise Data for Zira ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	55.4	240.2	360.2	72.0	9.4
Wheat	Pod	55.4	240.2	72.0	36.0	5.0
Paddy	Straw	6.4	23.9	35.8	28.6	3.4
Cotton	Stalks	4.5	12.1	17.3	15.6	2.2
Cotton	Bollshell	4.5	12.1	13.3	12.0	1.7
Cotton	Husk	4.5	12.1	13.3	12.0	1.7
Paddy	Husk	6.4	23.9	4.8	3.8	0.42
Others	Others	0.33	0.66	1.2	0.50	0.063
Sugarcane	Tops & Leaves	0.52	30.3	1.5	0.38	0.053
<b>Total</b>		<b>67.1</b>	<b>307.1</b>	<b>519.5</b>	<b>180.9</b>	<b>23.9</b>

<b>Taluk level Residue-wise Data for Batala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	56.8	167.2	250.8	200.7	24.1
Wheat	Stalks	48.4	225.5	338.2	67.6	8.8
Wheat	Pod	48.4	225.5	67.6	33.8	4.7
Paddy	Husk	56.8	167.2	33.4	26.8	2.9
Sugarcane	Tops & Leaves	3.2	216.5	10.8	2.7	0.38
Maize	Stalks	3.4	7.0	14.1	2.8	0.37
Maize	Cobs	3.4	7.0	3.5	1.1	0.15
Mustard	Stalks	0.84	0.87	1.6	0.79	0.10
Mustard	Husk	0.84	0.87	0.79	0.75	0.090
Others	Others	0.54	0.33	0.60	0.079	0.010
<b>Total</b>		<b>113.2</b>	<b>617.4</b>	<b>721.5</b>	<b>337.1</b>	<b>41.6</b>

<b>Taluk level Residue-wise Data for Dera Baba Nanak ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	29.0	135.3	202.9	40.6	5.3
Paddy	Straw	7.5	22.1	33.1	26.5	3.2
Wheat	Pod	29.0	135.3	40.6	20.3	2.8
Paddy	Husk	7.5	22.1	4.4	3.5	0.39
Others	Others	0.83	28.8	3.1	1.1	0.14
Maize	Stalks	0.61	1.3	2.5	0.50	0.065
<b>Total</b>		<b>38.0</b>	<b>187.4</b>	<b>286.6</b>	<b>92.5</b>	<b>11.9</b>

<b>Taluk level Residue-wise Data for Dhar Kalan ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	5.9	17.4	26.1	20.9	2.5
Wheat	Stalks	3.5	16.2	24.3	4.9	0.63
Wheat	Pod	3.5	16.2	4.9	2.4	0.34
Sugarcane	Tops & Leaves	2.7	182.6	9.1	2.3	0.32
Paddy	Husk	5.9	17.4	3.5	2.8	0.31
Others	Others	0.11	0.29	0.45	0.13	0.016
<b>Total</b>		<b>12.2</b>	<b>216.5</b>	<b>68.3</b>	<b>33.4</b>	<b>4.1</b>

<b>Taluk level Residue-wise Data for Gurdaspur ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	86.9	255.8	383.7	307.0	36.8
Wheat	Stalks	107.6	501.2	751.9	150.4	19.5
Wheat	Pod	107.6	501.2	150.4	75.2	10.5
Paddy	Husk	86.9	255.8	51.2	40.9	4.5
Sugarcane	Tops & Leaves	13.5	918.1	45.9	11.5	1.6
Maize	Stalks	6.7	13.8	27.5	5.5	0.72
Maize	Cobs	6.7	13.8	6.9	2.1	0.29
Mustard	Stalks	1.3	1.3	2.3	1.2	0.15
Mustard	Husk	1.3	1.3	1.2	1.1	0.13
Others	Others	1.4	1.00	1.7	0.30	0.038
<b>Total</b>		<b>217.3</b>	<b>1691.2</b>	<b>1422.6</b>	<b>595.1</b>	<b>74.3</b>

<b>Taluk level Residue-wise Data for Pathankot ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	37.0	108.8	163.3	130.6	15.7
Wheat	Stalks	28.7	133.9	200.8	40.2	5.2
Wheat	Pod	28.7	133.9	40.2	20.1	2.8
Paddy	Husk	37.0	108.8	21.8	17.4	1.9
Sugarcane	Tops & Leaves	3.4	228.7	11.4	2.9	0.40
Maize	Stalks	2.2	4.6	9.2	1.8	0.24
Mustard	Stalks	1.1	1.1	2.1	1.0	0.13
Mustard	Husk	1.1	1.1	1.0	0.98	0.12
Maize	Cobs	2.2	4.6	2.3	0.69	0.097
Others	Others	2.4	1.4	2.5	0.43	0.056
<b>Total</b>		<b>74.8</b>	<b>478.6</b>	<b>454.6</b>	<b>216.1</b>	<b>26.7</b>

<b>Taluk level Residue-wise Data for Dasua ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	32.4	117.1	175.7	35.1	4.6
Paddy	Straw	8.0	22.7	34.0	27.2	3.3
Wheat	Pod	32.4	117.1	35.1	17.6	2.5
Sugarcane	Tops & Leaves	8.4	515.3	25.8	6.4	0.90
Paddy	Husk	8.0	22.7	4.5	3.6	0.40
Mustard	Stalks	0.78	0.78	1.4	0.70	0.091
Mustard	Husk	0.78	0.78	0.70	0.66	0.080
Others	Others	0.99	0.78	1.8	0.35	0.044
<b>Total</b>		<b>50.5</b>	<b>656.7</b>	<b>279.1</b>	<b>91.7</b>	<b>11.8</b>

<b>Taluk level Residue-wise Data for Garhshankar ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	11.0	31.3	46.9	37.5	4.5
Wheat	Stalks	15.6	56.5	84.8	17.0	2.2
Maize	Stalks	11.8	34.4	68.8	13.8	1.8
Wheat	Pod	15.6	56.5	17.0	8.5	1.2
Maize	Cobs	11.8	34.4	17.2	5.2	0.72
Sugarcane	Tops & Leaves	5.7	348.0	17.4	4.4	0.61
Paddy	Husk	11.0	31.3	6.3	5.0	0.55
Others	Others	1.7	1.7	3.8	1.2	0.15
Groundnut	Stalks	1.1	0.99	2.0	0.39	0.051
<b>Total</b>		<b>46.9</b>	<b>472.8</b>	<b>264.0</b>	<b>92.7</b>	<b>11.8</b>

<b>Taluk level Residue-wise Data for Hoshiarpur ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	53.8	194.6	291.9	58.4	7.6
Maize	Stalks	44.7	130.2	260.4	52.1	6.8
Wheat	Pod	53.8	194.6	58.4	29.2	4.1
Paddy	Straw	7.2	20.5	30.7	24.5	2.9
Maize	Cobs	44.7	130.2	65.1	19.5	2.7
Paddy	Husk	7.2	20.5	4.1	3.3	0.36

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sugarcane	Tops & Leaves	2.0	120.1	6.0	1.5	0.21
Others	Others	0.99	1.3	2.7	0.89	0.12
Mustard	Stalks	0.59	0.59	1.1	0.53	0.069
Mustard	Husk	0.59	0.59	0.53	0.51	0.061
<b>Total</b>		<b>109.3</b>	<b>467.2</b>	<b>720.9</b>	<b>190.4</b>	<b>24.9</b>

<b>Taluk level Residue-wise Data for Mukerian ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	34.3	97.8	146.7	117.3	14.1
Wheat	Stalks	38.0	137.5	206.3	41.3	5.4
Wheat	Pod	38.0	137.5	41.3	20.6	2.9
Paddy	Husk	34.3	97.8	19.6	15.6	1.7
Maize	Stalks	8.8	25.7	51.3	10.3	1.3
Sugarcane	Tops & Leaves	5.1	314.6	15.7	3.9	0.55
Maize	Cobs	8.8	25.7	12.8	3.8	0.54
Others	Others	1.8	1.9	3.9	1.0	0.13
Mustard	Stalks	0.91	0.91	1.6	0.82	0.11
Mustard	Husk	0.91	0.91	0.82	0.78	0.093
<b>Total</b>		<b>89.1</b>	<b>578.3</b>	<b>499.9</b>	<b>215.5</b>	<b>26.8</b>

<b>Taluk level Residue-wise Data for Jalandhar-I ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	24.5	82.4	123.6	98.9	11.9
Wheat	Stalks	32.0	150.3	225.4	45.1	5.9
Wheat	Pod	32.0	150.3	45.1	22.5	3.2
Paddy	Husk	24.5	82.4	16.5	13.2	1.5
Maize	Stalks	3.9	11.8	23.7	4.7	0.62
Sugarcane	Tops & Leaves	3.5	218.7	10.9	2.7	0.38
Maize	Cobs	3.9	11.8	5.9	1.8	0.25
Mustard	Stalks	0.91	1.3	2.3	1.1	0.15
Mustard	Husk	0.91	1.3	1.1	1.1	0.13

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Arhar	Stalks	0.94	0.84	2.1	0.63	0.082
Others	Others	0.82	0.38	1.2	0.12	0.015
<b>Total</b>		<b>66.5</b>	<b>465.7</b>	<b>457.8</b>	<b>191.9</b>	<b>24.0</b>

<b>Taluk level Residue-wise Data for Jalandhar-Ii ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	10.9	36.8	55.2	44.2	5.3
Wheat	Stalks	11.9	55.8	83.7	16.7	2.2
Wheat	Pod	11.9	55.8	16.7	8.4	1.2
Maize	Stalks	4.4	13.2	26.4	5.3	0.69
Paddy	Husk	10.9	36.8	7.4	5.9	0.65
Maize	Cobs	4.4	13.2	6.6	2.0	0.28
Cotton	Stalks	0.45	1.3	1.7	1.5	0.22
Sugarcane	Tops & Leaves	1.7	105.2	5.3	1.3	0.18
Cotton	Bollshell	0.45	1.3	1.4	1.3	0.18
Cotton	Husk	0.45	1.3	1.4	1.3	0.18
Mustard	Stalks	0.38	0.53	0.95	0.47	0.062
Mustard	Husk	0.38	0.53	0.47	0.45	0.054
Others	Others	0.20	0.092	0.23	0.024	0.0031
<b>Total</b>		<b>29.9</b>	<b>212.9</b>	<b>207.4</b>	<b>88.8</b>	<b>11.1</b>

<b>Taluk level Residue-wise Data for Nakodar ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	29.2	98.4	147.6	118.1	14.2
Wheat	Stalks	34.8	163.8	245.8	49.2	6.4
Wheat	Pod	34.8	163.8	49.2	24.6	3.4
Paddy	Husk	29.2	98.4	19.7	15.7	1.7
Sugarcane	Tops & Leaves	3.5	218.2	10.9	2.7	0.38
Maize	Stalks	2.3	6.9	13.8	2.8	0.36
Maize	Cobs	2.3	6.9	3.4	1.0	0.14
Mustard	Stalks	0.48	0.68	1.2	0.61	0.079

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Mustard	Husk	0.48	0.68	0.61	0.58	0.069
Others	Others	0.48	0.46	0.79	0.19	0.025
<b>Total</b>		<b>70.8</b>	<b>488.4</b>	<b>492.9</b>	<b>215.4</b>	<b>26.8</b>

<b>Taluk level Residue-wise Data for Phillaur ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	60.1	202.3	303.5	242.8	29.1
Wheat	Stalks	57.3	269.3	403.9	80.8	10.5
Wheat	Pod	57.3	269.3	80.8	40.4	5.7
Paddy	Husk	60.1	202.3	40.5	32.4	3.6
Maize	Stalks	3.8	11.6	23.2	4.6	0.60
Sugarcane	Tops & Leaves	4.2	263.3	13.2	3.3	0.46
Maize	Cobs	3.8	11.6	5.8	1.7	0.24
Sunflower	Stalks	2.6	3.6	7.1	1.4	0.19
Others	Others	0.98	0.60	1.7	0.68	0.086
Mustard	Stalks	0.32	0.45	0.80	0.40	0.052
<b>Total</b>		<b>129.3</b>	<b>751.0</b>	<b>880.4</b>	<b>408.5</b>	<b>50.5</b>

<b>Taluk level Residue-wise Data for Shahkot ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	31.3	147.3	220.9	44.2	5.7
Paddy	Straw	7.4	24.9	37.4	29.9	3.6
Wheat	Pod	31.3	147.3	44.2	22.1	3.1
Paddy	Husk	7.4	24.9	5.0	4.0	0.44
Sugarcane	Tops & Leaves	3.1	193.2	9.7	2.4	0.34
Maize	Stalks	1.9	5.8	11.5	2.3	0.30
Maize	Cobs	1.9	5.8	2.9	0.87	0.12
Cotton	Stalks	0.24	0.69	0.92	0.83	0.12
Cotton	Bollshell	0.24	0.69	0.76	0.69	0.096
Cotton	Husk	0.24	0.69	0.76	0.69	0.096
Others	Others	0.23	0.16	0.30	0.10	0.013
<b>Total</b>		<b>44.2</b>	<b>372.0</b>	<b>334.3</b>	<b>108.0</b>	<b>13.9</b>

<b>Taluk level Residue-wise Data for Bhulath ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	19.7	93.0	139.5	27.9	3.6
Wheat	Pod	19.7	93.0	27.9	14.0	2.0
Paddy	Straw	2.8	9.8	14.7	11.7	1.4
Paddy	Husk	2.8	9.8	2.0	1.6	0.17
Others	Others	0.33	0.70	1.8	0.69	0.089
Sugarcane	Tops & Leaves	0.49	30.2	1.5	0.38	0.053
<b>Total</b>		<b>23.3</b>	<b>133.7</b>	<b>187.4</b>	<b>56.2</b>	<b>7.3</b>

<b>Taluk level Residue-wise Data for Kapurthala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	48.4	168.1	252.1	201.7	24.2
Wheat	Stalks	50.6	238.7	358.1	71.6	9.3
Wheat	Pod	50.6	238.7	71.6	35.8	5.0
Paddy	Husk	48.4	168.1	33.6	26.9	3.0
Maize	Stalks	1.6	5.5	10.9	2.2	0.28
Sugarcane	Tops & Leaves	2.2	135.5	6.8	1.7	0.24
Others	Others	0.95	0.88	2.5	1.5	0.21
Maize	Cobs	1.6	5.5	2.7	0.82	0.11
Sunflower	Stalks	0.83	1.2	2.4	0.49	0.063
<b>Total</b>		<b>104.5</b>	<b>549.9</b>	<b>740.8</b>	<b>342.8</b>	<b>42.4</b>

<b>Taluk level Residue-wise Data for Phagwara ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.4	67.2	100.9	80.7	9.7
Wheat	Stalks	23.5	110.9	166.3	33.3	4.3
Wheat	Pod	23.5	110.9	33.3	16.6	2.3
Paddy	Husk	19.4	67.2	13.4	10.8	1.2
Sugarcane	Tops & Leaves	2.8	171.9	8.6	2.1	0.30
Maize	Stalks	1.0	3.6	7.2	1.4	0.19
Maize	Cobs	1.0	3.6	1.8	0.54	0.075
Others	Others	0.49	0.72	1.5	0.41	0.053
<b>Total</b>		<b>47.2</b>	<b>354.3</b>	<b>332.9</b>	<b>145.9</b>	<b>18.1</b>



<b>Taluk level Residue-wise Data for Sultanpur Lodhi ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	34.5	119.8	179.7	143.8	17.3
Wheat	Stalks	20.3	95.7	143.6	28.7	3.7
Paddy	Husk	34.5	119.8	24.0	19.2	2.1
Wheat	Pod	20.3	95.7	28.7	14.4	2.0
Maize	Stalks	1.3	4.3	8.6	1.7	0.22
Maize	Cobs	1.3	4.3	2.1	0.64	0.090
Others	Others	0.30	0.39	1.0	0.59	0.074
Sugarcane	Tops & Leaves	0.66	41.1	2.1	0.51	0.072
<b>Total</b>		<b>57.0</b>	<b>261.3</b>	<b>389.7</b>	<b>209.5</b>	<b>25.6</b>

<b>Taluk level Residue-wise Data for Jagraon ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	56.3	219.4	329.1	263.3	31.6
Wheat	Stalks	64.6	327.6	491.4	98.3	12.8
Wheat	Pod	64.6	327.6	98.3	49.1	6.9
Paddy	Husk	56.3	219.4	43.9	35.1	3.9
Maize	Stalks	4.8	16.5	32.9	6.6	0.86
Maize	Cobs	4.8	16.5	8.2	2.5	0.35
Sugarcane	Tops & Leaves	0.74	49.5	2.5	0.62	0.087
Others	Others	1.3	1.3	2.2	0.54	0.073
Mustard	Stalks	0.41	0.56	1.0	0.50	0.065
Arhar	Stalks	0.74	0.59	1.5	0.44	0.058
Mustard	Husk	0.41	0.56	0.50	0.48	0.057
<b>Total</b>		<b>128.9</b>	<b>615.4</b>	<b>1011.4</b>	<b>457.4</b>	<b>56.6</b>

<b>Taluk level Residue-wise Data for Khanna ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	19.5	75.9	113.9	91.1	10.9
Wheat	Stalks	11.9	60.6	90.8	18.2	2.4
Paddy	Husk	19.5	75.9	15.2	12.1	1.3
Wheat	Pod	11.9	60.6	18.2	9.1	1.3
Others	Others	0.58	1.2	2.6	0.90	0.11
<b>Total</b>		<b>32.0</b>	<b>137.7</b>	<b>240.7</b>	<b>131.4</b>	<b>16.0</b>

<b>Taluk level Residue-wise Data for Ludhiana(East) ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	41.7	162.6	244.0	195.2	23.4
Wheat	Stalks	45.5	230.9	346.3	69.3	9.0
Wheat	Pod	45.5	230.9	69.3	34.6	4.8
Paddy	Husk	41.7	162.6	32.5	26.0	2.9
Cotton	Stalks	0.88	2.3	3.3	3.0	0.42
Cotton	Bollshell	0.88	2.3	2.5	2.3	0.32
Cotton	Husk	0.88	2.3	2.5	2.3	0.32
Others	Others	1.3	1.8	3.3	0.59	0.077
Mustard	Stalks	0.42	0.57	1.0	0.51	0.067
Mustard	Husk	0.42	0.57	0.51	0.49	0.058
<b>Total</b>		<b>89.8</b>	<b>398.2</b>	<b>705.3</b>	<b>334.2</b>	<b>41.4</b>

<b>Taluk level Residue-wise Data for Ludhiana(West) ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	28.7	111.9	167.9	134.3	16.1
Wheat	Stalks	31.2	158.4	237.6	47.5	6.2
Wheat	Pod	31.2	158.4	47.5	23.8	3.3
Paddy	Husk	28.7	111.9	22.4	17.9	2.0
Mustard	Stalks	0.65	0.88	1.6	0.80	0.10
Mustard	Husk	0.65	0.88	0.80	0.76	0.091
Others	Others	1.8	2.9	4.4	0.65	0.084
<b>Total</b>		<b>62.4</b>	<b>274.2</b>	<b>482.3</b>	<b>225.7</b>	<b>27.9</b>

<b>Taluk level Residue-wise Data for Payal ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	26.2	102.1	153.1	122.5	14.7
Wheat	Stalks	35.2	178.8	268.2	53.6	7.0
Wheat	Pod	35.2	178.8	53.6	26.8	3.8
Paddy	Husk	26.2	102.1	20.4	16.3	1.8
Sugarcane	Tops & Leaves	6.0	405.6	20.3	5.1	0.71
Cotton	Stalks	0.82	2.2	3.1	2.8	0.39
Cotton	Bollshell	0.82	2.2	2.4	2.1	0.30
Cotton	Husk	0.82	2.2	2.4	2.1	0.30
Others	Others	2.3	2.1	3.4	0.92	0.12
<b>Total</b>		<b>70.6</b>	<b>690.7</b>	<b>526.9</b>	<b>232.3</b>	<b>29.0</b>

<b>Taluk level Residue-wise Data for Raikot ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	27.1	105.6	158.4	126.7	15.2
Wheat	Stalks	28.7	145.5	218.2	43.6	5.7
Wheat	Pod	28.7	145.5	43.6	21.8	3.1
Paddy	Husk	27.1	105.6	21.1	16.9	1.9
Others	Others	1.5	22.7	4.0	1.1	0.14
<b>Total</b>		<b>57.3</b>	<b>273.7</b>	<b>445.4</b>	<b>210.2</b>	<b>25.9</b>

<b>Taluk level Residue-wise Data for Samrala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	35.6	138.8	208.2	166.6	20.0
Wheat	Stalks	41.0	208.0	312.0	62.4	8.1
Wheat	Pod	41.0	208.0	62.4	31.2	4.4
Paddy	Husk	35.6	138.8	27.8	22.2	2.4
Sugarcane	Tops & Leaves	1.1	72.1	3.6	0.90	0.13
Others	Others	0.76	1.5	2.6	0.78	0.099
<b>Total</b>		<b>78.4</b>	<b>420.4</b>	<b>616.5</b>	<b>284.0</b>	<b>35.1</b>

<b>Taluk level Residue-wise Data for Budhlada ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	71.1	287.7	431.6	86.3	11.2
Wheat	Pod	71.1	287.7	86.3	43.2	6.0
Cotton	Stalks	11.8	32.2	45.0	40.5	5.7
Paddy	Straw	9.0	31.9	47.9	38.3	4.6
Cotton	Bollshell	11.8	32.2	35.4	31.9	4.5
Cotton	Husk	11.8	32.2	35.4	31.9	4.5
Paddy	Husk	9.0	31.9	6.4	5.1	0.56
Mustard	Stalks	0.70	0.77	1.4	0.69	0.090
Mustard	Husk	0.70	0.77	0.69	0.66	0.079
Others	Others	0.84	0.95	2.2	0.44	0.057
<b>Total</b>		<b>93.5</b>	<b>353.5</b>	<b>692.2</b>	<b>278.9</b>	<b>37.2</b>

<b>Taluk level Residue-wise Data for Mansa ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	33.8	91.9	128.4	115.6	16.2
Cotton	Bollshell	33.8	91.9	101.1	91.0	12.7
Cotton	Husk	33.8	91.9	101.1	91.0	12.7
Wheat	Stalks	75.6	305.8	458.7	91.7	11.9
Paddy	Straw	19.7	70.0	105.0	84.0	10.1
Wheat	Pod	75.6	305.8	91.7	45.9	6.4
Paddy	Husk	19.7	70.0	14.0	11.2	1.2
Mustard	Stalks	0.97	1.1	1.9	0.95	0.12
Mustard	Husk	0.97	1.1	0.95	0.90	0.11
Others	Others	0.76	0.74	1.5	0.22	0.028
<b>Total</b>		<b>130.8</b>	<b>469.5</b>	<b>1004.5</b>	<b>532.5</b>	<b>71.6</b>

<b>Taluk level Residue-wise Data for Sardulgarh ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	40.7	144.9	217.4	173.9	20.9
Cotton	Stalks	42.7	116.1	162.2	146.0	20.4
Cotton	Bollshell	42.7	116.1	127.7	115.0	16.1

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Cotton	Husk	42.7	116.1	127.7	115.0	16.1
Wheat	Stalks	19.5	79.0	118.6	23.7	3.1
Paddy	Husk	40.7	144.9	29.0	23.2	2.6
Wheat	Pod	19.5	79.0	23.7	11.9	1.7
Others	Others	1.3	3.5	4.2	0.81	0.11
Mustard	Stalks	0.69	0.76	1.4	0.68	0.089
Mustard	Husk	0.69	0.76	0.68	0.65	0.078
<b>Total</b>		<b>104.9</b>	<b>344.3</b>	<b>812.6</b>	<b>610.8</b>	<b>81.1</b>

<b>Taluk level Residue-wise Data for Bagha Purana ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Wheat	Stalks	62.8	293.0	439.4	87.9	11.4
Wheat	Pod	62.8	293.0	87.9	43.9	6.2
Paddy	Straw	8.0	30.6	45.9	36.7	4.4
Cotton	Stalks	2.2	5.5	8.4	7.5	1.1
Cotton	Bollshell	2.2	5.5	6.0	5.4	0.76
Cotton	Husk	2.2	5.5	6.0	5.4	0.76
Paddy	Husk	8.0	30.6	6.1	4.9	0.54
Others	Others	1.0	28.5	2.4	0.56	0.078
Maize	Stalks	0.41	1.1	2.2	0.45	0.058
<b>Total</b>		<b>74.5</b>	<b>358.6</b>	<b>604.4</b>	<b>192.8</b>	<b>25.2</b>

<b>Taluk level Residue-wise Data for Moga ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	104.0	396.1	594.2	475.3	57.0
Wheat	Stalks	55.4	258.6	387.9	77.6	10.1
Paddy	Husk	104.0	396.1	79.2	63.4	7.0
Wheat	Pod	55.4	258.6	77.6	38.8	5.4
Cotton	Stalks	8.4	20.9	32.1	28.9	4.0
Cotton	Bollshell	8.4	20.9	23.0	20.7	2.9
Cotton	Husk	8.4	20.9	23.0	20.7	2.9

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sugarcane	Tops & Leaves	1.7	124.1	6.2	1.6	0.22
Others	Others	1.8	1.2	2.8	0.48	0.064
Maize	Stalks	0.37	1.0	2.0	0.41	0.053
<b>Total</b>		<b>171.8</b>	<b>802.0</b>	<b>1228.1</b>	<b>727.9</b>	<b>89.7</b>

<b>Taluk level Residue-wise Data for Nihal Singhwala ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	41.9	159.5	239.3	191.4	23.0
Wheat	Stalks	48.7	227.3	341.0	68.2	8.9
Wheat	Pod	48.7	227.3	68.2	34.1	4.8
Paddy	Husk	41.9	159.5	31.9	25.5	2.8
Cotton	Stalks	3.7	9.2	14.0	12.6	1.8
Cotton	Bollshell	3.7	9.2	10.1	9.1	1.3
Cotton	Husk	3.7	9.2	10.1	9.1	1.3
Others	Others	1.6	1.4	2.9	0.52	0.068
<b>Total</b>		<b>95.9</b>	<b>397.5</b>	<b>717.6</b>	<b>350.6</b>	<b>43.8</b>

<b>Taluk level Residue-wise Data for Giddarbaha ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Cotton	Stalks	41.0	110.3	155.8	140.2	19.6
Cotton	Bollshell	41.0	110.3	121.3	109.2	15.3
Cotton	Husk	41.0	110.3	121.3	109.2	15.3
Wheat	Stalks	74.5	315.9	473.9	94.8	12.3
Wheat	Pod	74.5	315.9	94.8	47.4	6.6
Paddy	Straw	11.1	40.7	61.0	48.8	5.9
Paddy	Husk	11.1	40.7	8.1	6.5	0.72
Sugarcane	Tops & Leaves	3.2	241.1	12.1	3.0	0.42
Mustard	Stalks	0.93	1.3	2.3	1.1	0.15
Mustard	Husk	0.93	1.3	1.1	1.1	0.13
Barley	Stalks	1.8	5.6	7.2	0.72	0.094
Others	Others	1.0	0.75	1.9	0.34	0.044
<b>Total</b>		<b>133.5</b>	<b>715.6</b>	<b>1060.8</b>	<b>562.4</b>	<b>76.6</b>

<b>Taluk level Residue-wise Data for Malout ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	60.3	162.1	229.0	206.1	28.9
Cotton	Bollshell	60.3	162.1	178.3	160.5	22.5
Cotton	Husk	60.3	162.1	178.3	160.5	22.5
Paddy	Straw	36.2	133.1	199.7	159.8	19.2
Wheat	Stalks	81.9	346.9	520.3	104.1	13.5
Wheat	Pod	81.9	346.9	104.1	52.0	7.3
Paddy	Husk	36.2	133.1	26.6	21.3	2.3
Mustard	Stalks	1.1	1.6	2.8	1.4	0.18
Mustard	Husk	1.1	1.6	1.4	1.3	0.16
Others	Others	2.2	2.7	5.0	0.87	0.11
Sugarcane	Tops & Leaves	0.63	47.8	2.4	0.60	0.084
Maize	Stalks	0.45	1.3	2.6	0.51	0.066
<b>Total</b>		<b>182.8</b>	<b>695.5</b>	<b>1450.5</b>	<b>868.9</b>	<b>116.7</b>

<b>Taluk level Residue-wise Data for Muktsar ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Stalks	24.3	65.3	92.3	83.0	11.6
Paddy	Straw	19.0	69.6	104.4	83.5	10.0
Cotton	Bollshell	24.3	65.3	71.9	64.7	9.1
Cotton	Husk	24.3	65.3	71.9	64.7	9.1
Wheat	Stalks	40.1	169.9	254.9	51.0	6.6
Wheat	Pod	40.1	169.9	51.0	25.5	3.6
Paddy	Husk	19.0	69.6	13.9	11.1	1.2
Sugarcane	Tops & Leaves	1.2	93.8	4.7	1.2	0.16
Mustard	Stalks	0.54	0.73	1.3	0.66	0.086
Mustard	Husk	0.54	0.73	0.66	0.63	0.075
Others	Others	2.5	3.3	4.5	0.58	0.075
<b>Total</b>		<b>87.6</b>	<b>402.7</b>	<b>671.4</b>	<b>386.6</b>	<b>51.6</b>

<b>Taluk level Residue-wise Data for Balachaur ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	26.0	118.7	178.1	35.6	4.6
Paddy	Straw	5.9	18.8	28.2	22.6	2.7
Wheat	Pod	26.0	118.7	35.6	17.8	2.5
Maize	Stalks	5.2	14.7	29.5	5.9	0.77
Sugarcane	Tops & Leaves	4.7	277.9	13.9	3.5	0.49
Paddy	Husk	5.9	18.8	3.8	3.0	0.33
Maize	Cobs	5.2	14.7	7.4	2.2	0.31
Others	Others	0.19	0.16	0.39	0.21	0.026
<b>Total</b>		<b>42.0</b>	<b>430.4</b>	<b>296.8</b>	<b>90.8</b>	<b>11.8</b>

<b>Taluk level Residue-wise Data for Nawanshahr ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	39.1	123.9	185.8	148.7	17.8
Wheat	Stalks	45.1	205.8	308.7	61.7	8.0
Wheat	Pod	45.1	205.8	61.7	30.9	4.3
Paddy	Husk	39.1	123.9	24.8	19.8	2.2
Maize	Stalks	13.0	36.7	73.5	14.7	1.9
Sugarcane	Tops & Leaves	7.5	447.1	22.4	5.6	0.78
Maize	Cobs	13.0	36.7	18.4	5.5	0.77
Others	Others	0.23	0.24	0.74	0.54	0.073
<b>Total</b>		<b>104.9</b>	<b>813.8</b>	<b>696.0</b>	<b>287.4</b>	<b>35.9</b>

<b>Taluk level Residue-wise Data for Dera Bassi ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	32.8	118.8	178.2	142.5	17.1
Wheat	Stalks	20.9	103.5	155.2	31.0	4.0
Wheat	Pod	20.9	103.5	31.0	15.5	2.2
Paddy	Husk	32.8	118.8	23.8	19.0	2.1
Cotton	Stalks	0.39	1.0	1.5	1.3	0.19
Cotton	Bollshell	0.39	1.0	1.1	1.0	0.14



<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Cotton	Husk	0.39	1.0	1.1	1.0	0.14
Sugarcane	Tops & Leaves	0.43	30.4	1.5	0.38	0.053
Others	Others	0.22	0.50	1.2	0.27	0.036
<b>Total</b>		<b>54.8</b>	<b>254.2</b>	<b>394.7</b>	<b>212.2</b>	<b>26.0</b>

<b>Taluk level Residue-wise Data for Nabha ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	33.0	119.5	179.3	143.4	17.2
Wheat	Stalks	36.1	178.3	267.5	53.5	7.0
Wheat	Pod	36.1	178.3	53.5	26.7	3.7
Paddy	Husk	33.0	119.5	23.9	19.1	2.1
Sugarcane	Tops & Leaves	3.9	273.8	13.7	3.4	0.48
Cotton	Stalks	0.50	1.3	1.9	1.7	0.24
Cotton	Bollshell	0.50	1.3	1.5	1.3	0.19
Cotton	Husk	0.50	1.3	1.5	1.3	0.19
Others	Others	0.11	0.26	0.62	0.13	0.018
<b>Total</b>		<b>73.6</b>	<b>573.3</b>	<b>543.3</b>	<b>250.7</b>	<b>31.1</b>

<b>Taluk level Residue-wise Data for Patiala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	90.1	326.2	489.3	391.4	47.0
Wheat	Stalks	94.9	469.1	703.6	140.7	18.3
Wheat	Pod	94.9	469.1	140.7	70.4	9.9
Paddy	Husk	90.1	326.2	65.2	52.2	5.7
Maize	Stalks	0.46	1.1	2.1	0.42	0.055
Others	Others	0	0	0.53	0.16	0.022
<b>Total</b>		<b>185.5</b>	<b>796.3</b>	<b>1401.5</b>	<b>655.3</b>	<b>80.9</b>

<b>Taluk level Residue-wise Data for Rajpura ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	80.0	289.6	434.3	347.5	41.7
Wheat	Stalks	74.0	365.6	548.4	109.7	14.3
Wheat	Pod	74.0	365.6	109.7	54.8	7.7
Paddy	Husk	80.0	289.6	57.9	46.3	5.1
Maize	Stalks	1.2	2.7	5.4	1.1	0.14
Maize	Cobs	1.2	2.7	1.3	0.40	0.056
Others	Others	0.054	0.089	0.28	0.23	0.033
<b>Total</b>		<b>155.2</b>	<b>657.9</b>	<b>1157.3</b>	<b>560.0</b>	<b>69.0</b>

<b>Taluk level Residue-wise Data for Samana ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	44.1	218.2	327.4	65.5	8.5
Paddy	Straw	15.0	54.4	81.7	65.3	7.8
Wheat	Pod	44.1	218.2	65.5	32.7	4.6
Paddy	Husk	15.0	54.4	10.9	8.7	0.96
Sugarcane	Tops & Leaves	0.76	53.6	2.7	0.67	0.094
Others	Others	0.082	0.19	0.47	0.10	0.014
<b>Total</b>		<b>60.0</b>	<b>326.5</b>	<b>488.5</b>	<b>173.0</b>	<b>22.0</b>

<b>Taluk level Residue-wise Data for Anandpur Sahib ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	14.9	47.7	71.5	57.2	6.9
Wheat	Stalks	21.8	85.8	128.7	25.7	3.3
Wheat	Pod	21.8	85.8	25.7	12.9	1.8
Maize	Stalks	8.0	18.2	36.4	7.3	0.95
Paddy	Husk	14.9	47.7	9.5	7.6	0.84
Sugarcane	Tops & Leaves	4.1	225.2	11.3	2.8	0.39
Maize	Cobs	8.0	18.2	9.1	2.7	0.38
Others	Others	0.77	0.71	2.0	0.90	0.12
<b>Total</b>		<b>49.6</b>	<b>377.6</b>	<b>294.3</b>	<b>117.2</b>	<b>14.7</b>

<b>Taluk level Residue-wise Data for Kharar ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	10.1	32.3	48.4	38.7	4.6
Wheat	Stalks	18.7	73.8	110.7	22.1	2.9
Wheat	Pod	18.7	73.8	22.1	11.1	1.6
Maize	Stalks	7.7	17.4	34.8	7.0	0.91
Paddy	Husk	10.1	32.3	6.5	5.2	0.57
Maize	Cobs	7.7	17.4	8.7	2.6	0.37
Sugarcane	Tops & Leaves	2.1	112.8	5.6	1.4	0.20
Others	Others	1.2	0.82	2.1	0.54	0.068
<b>Total</b>		<b>39.7</b>	<b>237.1</b>	<b>239.0</b>	<b>88.7</b>	<b>11.2</b>

<b>Taluk level Residue-wise Data for Rupnagar ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	24.4	77.9	116.8	93.4	11.2
Wheat	Stalks	38.0	149.6	224.4	44.9	5.8
Wheat	Pod	38.0	149.6	44.9	22.4	3.1
Paddy	Husk	24.4	77.9	15.6	12.5	1.4
Maize	Stalks	11.3	25.6	51.3	10.3	1.3
Maize	Cobs	11.3	25.6	12.8	3.8	0.54
Sugarcane	Tops & Leaves	1.8	95.7	4.8	1.2	0.17
Others	Others	1.3	2.3	3.8	0.62	0.080
Mustard	Stalks	0.65	0.58	1.1	0.53	0.068
Mustard	Husk	0.65	0.58	0.53	0.50	0.060
<b>Total</b>		<b>77.3</b>	<b>351.8</b>	<b>476.0</b>	<b>190.2</b>	<b>23.8</b>

<b>Taluk level Residue-wise Data for S.A.S.Nagar(Mohali) ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Wheat	Stalks	11.2	44.0	66.0	13.2	1.7
Paddy	Straw	2.0	6.4	9.7	7.7	0.93
Wheat	Pod	11.2	44.0	13.2	6.6	0.92
Maize	Stalks	2.2	5.0	10.1	2.0	0.26

<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sugarcane	Tops & Leaves	2.2	119.5	6.0	1.5	0.21
Paddy	Husk	2.0	6.4	1.3	1.0	0.11
Maize	Cobs	2.2	5.0	2.5	0.76	0.11
Others	Others	0.21	0.14	0.32	0.14	0.017
<b>Total</b>		<b>17.8</b>	<b>175.2</b>	<b>109.1</b>	<b>33.0</b>	<b>4.3</b>

<b>Taluk level Residue-wise Data for Barnala ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	109.0	425.2	637.8	510.2	61.2
Wheat	Stalks	122.6	591.4	887.0	177.4	23.1
Wheat	Pod	122.6	591.4	177.4	88.7	12.4
Paddy	Husk	109.0	425.2	85.0	68.0	7.5
Cotton	Stalks	3.3	8.8	12.7	11.4	1.6
Cotton	Bollshell	3.3	8.8	9.7	8.8	1.2
Cotton	Husk	3.3	8.8	9.7	8.8	1.2
Sugarcane	Tops & Leaves	3.0	210.7	10.5	2.6	0.37
Others	Others	3.8	3.2	6.9	1.1	0.14
Barley	Stalks	1.5	6.3	8.2	0.82	0.11
<b>Total</b>		<b>243.3</b>	<b>1245.6</b>	<b>1845.0</b>	<b>877.9</b>	<b>108.9</b>

<b>Taluk level Residue-wise Data for Dhuri ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	25.3	98.8	148.1	118.5	14.2
Wheat	Stalks	51.7	249.1	373.6	74.7	9.7
Wheat	Pod	51.7	249.1	74.7	37.4	5.2
Cotton	Stalks	8.0	21.1	30.4	27.3	3.8
Cotton	Bollshell	8.0	21.1	23.2	20.9	2.9
Cotton	Husk	8.0	21.1	23.2	20.9	2.9
Paddy	Husk	25.3	98.8	19.8	15.8	1.7
Maize	Stalks	2.0	5.4	10.8	2.2	0.28
Maize	Cobs	2.0	5.4	2.7	0.81	0.11

Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Barley	Stalks	0.81	3.4	4.4	0.44	0.057
Others	Others	0.012	0.012	0.031	0.016	0.0021
<b>Total</b>		<b>87.8</b>	<b>377.7</b>	<b>711.0</b>	<b>319.0</b>	<b>41.0</b>

<b>Taluk level Residue-wise Data for Malerkotla ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	42.1	164.4	246.6	197.3	23.7
Wheat	Stalks	51.4	247.9	371.8	74.4	9.7
Wheat	Pod	51.4	247.9	74.4	37.2	5.2
Paddy	Husk	42.1	164.4	32.9	26.3	2.9
Cotton	Stalks	2.8	7.4	10.7	9.6	1.3
Cotton	Bollshell	2.8	7.4	8.2	7.4	1.0
Cotton	Husk	2.8	7.4	8.2	7.4	1.0
Sugarcane	Tops & Leaves	0.99	68.4	3.4	0.86	0.12
Others	Others	0.84	3.0	4.1	0.44	0.057
<b>Total</b>		<b>98.2</b>	<b>491.2</b>	<b>760.3</b>	<b>360.8</b>	<b>45.0</b>

<b>Taluk level Residue-wise Data for Moonak ; Biomass Class : Agro</b>						
Crop	Residue	Area (kHa)	Crop Production (kT/Yr)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Paddy	Straw	60.1	234.6	351.8	281.5	33.8
Wheat	Stalks	61.0	294.3	441.5	88.3	11.5
Wheat	Pod	61.0	294.3	88.3	44.2	6.2
Paddy	Husk	60.1	234.6	46.9	37.5	4.1
Cotton	Stalks	0.65	1.7	2.5	2.2	0.31
Cotton	Bollshell	0.65	1.7	1.9	1.7	0.24
Cotton	Husk	0.65	1.7	1.9	1.7	0.24
Others	Others	0.20	0.83	1.1	0.11	0.014
<b>Total</b>		<b>122.0</b>	<b>531.5</b>	<b>935.9</b>	<b>457.2</b>	<b>56.4</b>

<b>Taluk level Residue-wise Data for Sangrur ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	58.7	228.9	343.3	274.7	33.0
Wheat	Stalks	77.8	375.0	562.6	112.5	14.6
Wheat	Pod	77.8	375.0	112.5	56.3	7.9
Paddy	Husk	58.7	228.9	45.8	36.6	4.0
Cotton	Stalks	7.6	20.1	28.9	26.0	3.6
Cotton	Bollshell	7.6	20.1	22.1	19.9	2.8
Cotton	Husk	7.6	20.1	22.1	19.9	2.8
Barley	Stalks	1.7	7.2	9.3	0.93	0.12
Others	Others	1.8	1.3	1.7	0.22	0.028
<b>Total</b>		<b>147.5</b>	<b>632.5</b>	<b>1148.2</b>	<b>546.9</b>	<b>68.8</b>

<b>Taluk level Residue-wise Data for Sunam ; Biomass Class : Agro</b>						
<b>Crop</b>	<b>Residue</b>	<b>Area (kHa)</b>	<b>Crop Production (kT/Yr)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Paddy	Straw	60.5	236.2	354.3	283.4	34.0
Wheat	Stalks	27.6	133.0	199.5	39.9	5.2
Paddy	Husk	60.5	236.2	47.2	37.8	4.2
Wheat	Pod	27.6	133.0	39.9	20.0	2.8
Cotton	Stalks	5.6	14.8	21.3	19.2	2.7
Cotton	Bollshell	5.6	14.8	16.3	14.7	2.1
Cotton	Husk	5.6	14.8	16.3	14.7	2.1
Barley	Stalks	0.81	3.4	4.4	0.44	0.057
Others	Others	0.50	0.46	0.78	0.12	0.016
<b>Total</b>		<b>95.0</b>	<b>387.8</b>	<b>700.0</b>	<b>430.2</b>	<b>53.0</b>

# Forest

## Punjab Forest and Wasteland Map



## State Level Residue Wise

State level Residue-wise Data for Punjab; Biomass Class : Forest						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	67.1	15.1	10.0	1.4	Dense Forest
Catechu	Twigs	67.1	13.0	8.6	1.2	Dense Forest
Catechu	Branches	67.1	13.0	8.6	1.2	Dense Forest
Catechu	Bark	67.1	13.0	8.6	1.2	Dense Forest
Babul	Leaves	67.1	11.0	7.2	1.0	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	102.4	10.8	7.1	1.00	Open Forest
Others	Leaves	67.1	9.9	6.5	0.91	Dense Forest
Babul	Twigs	67.1	9.4	6.2	0.87	Dense Forest
Babul	Branches	67.1	9.4	6.2	0.87	Dense Forest
Babul	Bark	67.1	9.4	6.2	0.87	Dense Forest
Catechu	Branches	102.4	9.3	6.1	0.85	Open Forest
Catechu	Twigs	102.4	9.3	6.1	0.85	Open Forest
Catechu	Bark	102.4	9.3	6.1	0.85	Open Forest
Others	Branches	67.1	8.5	5.6	0.78	Dense Forest
Others	Bark	67.1	8.5	5.6	0.78	Dense Forest
Others	Twigs	67.1	8.5	5.6	0.78	Dense Forest
Eucalyptus	Leaves	67.1	8.2	5.4	0.76	Dense Forest
Babul	Leaves	102.4	7.8	5.2	0.72	Open Forest
Others	Leaves	102.4	7.0	4.6	0.65	Open Forest
Eucalyptus	Bark	67.1	7.0	4.6	0.65	Dense Forest
Eucalyptus	Branches	67.1	7.0	4.6	0.65	Dense Forest
Eucalyptus	Twigs	67.1	7.0	4.6	0.65	Dense Forest
Babul	Bark	102.4	6.7	4.4	0.62	Open Forest
Babul	Branches	102.4	6.7	4.4	0.62	Open Forest
Babul	Twigs	102.4	6.7	4.4	0.62	Open Forest
Others	Bark	102.4	6.0	4.0	0.56	Open Forest
Others	Twigs	102.4	6.0	4.0	0.56	Open Forest
Others	Branches	102.4	6.0	4.0	0.56	Open Forest
Eucalyptus	Leaves	102.4	5.8	3.9	0.54	Open Forest
Eucalyptus	Twigs	102.4	5.0	3.3	0.46	Open Forest
Eucalyptus	Bark	102.4	5.0	3.3	0.46	Open Forest
Eucalyptus	Branches	102.4	5.0	3.3	0.46	Open Forest
Shisham	Leaves	67.1	0.82	0.54	0.076	Dense Forest
Shisham	Bark	67.1	0.70	0.47	0.065	Dense Forest
Shisham	Twigs	67.1	0.70	0.47	0.065	Dense Forest
Shisham	Branches	67.1	0.70	0.47	0.065	Dense Forest
Shisham	Leaves	102.4	0.59	0.39	0.054	Open Forest
Shisham	Twigs	102.4	0.50	0.33	0.046	Open Forest
Shisham	Bark	102.4	0.50	0.33	0.046	Open Forest
Shisham	Branches	102.4	0.50	0.33	0.046	Open Forest
White Mulberry	Leaves	67.1	0.46	0.30	0.042	Dense Forest
White Mulberry	Bark	67.1	0.39	0.26	0.036	Dense Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Twigs	67.1	0.39	0.26	0.036	Dense Forest
White Mulberry	Branches	67.1	0.39	0.26	0.036	Dense Forest
Catechu	Leaves	8.7	0.34	0.23	0.032	Scrub
White Mulberry	Leaves	102.4	0.33	0.22	0.030	Open Forest
Catechu	Twigs	8.7	0.29	0.19	0.027	Scrub
Catechu	Branches	8.7	0.29	0.19	0.027	Scrub
Catechu	Bark	8.7	0.29	0.19	0.027	Scrub
White Mulberry	Branches	102.4	0.28	0.18	0.026	Open Forest
White Mulberry	Twigs	102.4	0.28	0.18	0.026	Open Forest
White Mulberry	Bark	102.4	0.28	0.18	0.026	Open Forest
Babul	Leaves	8.7	0.25	0.16	0.023	Scrub
Chir Pine	Leaves	67.1	0.23	0.15	0.021	Dense Forest
Others	Leaves	8.7	0.22	0.15	0.021	Scrub
Babul	Bark	8.7	0.21	0.14	0.020	Scrub
Babul	Branches	8.7	0.21	0.14	0.020	Scrub
Babul	Twigs	8.7	0.21	0.14	0.020	Scrub
Chir Pine	Twigs	67.1	0.20	0.13	0.018	Dense Forest
Chir Pine	Branches	67.1	0.20	0.13	0.018	Dense Forest
Chir Pine	Bark	67.1	0.20	0.13	0.018	Dense Forest
Others	Twigs	8.7	0.19	0.13	0.018	Scrub
Others	Bark	8.7	0.19	0.13	0.018	Scrub
Others	Branches	8.7	0.19	0.13	0.018	Scrub
Eucalyptus	Leaves	8.7	0.19	0.12	0.017	Scrub
Chir Pine	Leaves	102.4	0.16	0.11	0.015	Open Forest
Eucalyptus	Bark	8.7	0.16	0.10	0.015	Scrub
Eucalyptus	Branches	8.7	0.16	0.10	0.015	Scrub
Eucalyptus	Twigs	8.7	0.16	0.10	0.015	Scrub
Chir Pine	Bark	102.4	0.14	0.092	0.013	Open Forest
Chir Pine	Branches	102.4	0.14	0.092	0.013	Open Forest
Chir Pine	Twigs	102.4	0.14	0.092	0.013	Open Forest
Shisham	Leaves	8.7	0.019	0.012	0.0017	Scrub
Shisham	Twigs	8.7	0.016	0.011	0.0015	Scrub
Shisham	Branches	8.7	0.016	0.011	0.0015	Scrub
Shisham	Bark	8.7	0.016	0.011	0.0015	Scrub
White Mulberry	Leaves	8.7	0.010	0.0069	0.00096	Scrub
White Mulberry	Branches	8.7	0.0089	0.0058	0.00082	Scrub
White Mulberry	Twigs	8.7	0.0089	0.0058	0.00082	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Bark	8.7	0.0089	0.0058	0.00082	Scrub
Chir Pine	Leaves	8.7	0.0052	0.0034	0.00048	Scrub
Chir Pine	Twigs	8.7	0.0044	0.0029	0.00041	Scrub
Chir Pine	Branches	8.7	0.0044	0.0029	0.00041	Scrub
Chir Pine	Bark	8.7	0.0044	0.0029	0.00041	Scrub
<b>Total</b>		<b>178.2</b>	<b>283.0</b>	<b>186.8</b>	<b>26.2</b>	

### State Level District Wise

<b>State level District-wise Data for Punjab ; Biomass Class : Forest</b>				
District	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Hoshiarpur	84.4	138.8	91.6	12.8
Rupnagar	40.9	67.2	44.3	6.2
Nawanshahr	17.9	41.5	27.4	3.8
Gurdaspur	20.3	17.2	11.3	1.6
Patiala	8.1	10.0	6.6	0.92
Ludhiana	2.4	3.2	2.1	0.29
Bathinda	1.1	2.3	1.5	0.21
Faridkot	1.7	1.7	1.1	0.16
Jalandhar	1.00	0.82	0.54	0.076
Sangrur	0.27	0.44	0.29	0.041
<b>Total</b>	<b>178.2</b>	<b>283.0</b>	<b>186.8</b>	<b>26.2</b>

### State Level Taluk Wise

<b>State level Taluk-wise Data for Punjab ; Biomass Class : Forest</b>					
District	Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Hoshiarpur	Hoshiarpur	26.8	62.1	41.0	5.7
Hoshiarpur	Garhshankar	28.9	46.1	30.4	4.3
Nawanshahr	Balachaur	17.9	41.5	27.4	3.8
Rupnagar	Kharar	12.4	28.6	18.9	2.6

District	Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Rupnagar	Rupnagar	12.5	27.2	17.9	2.5
Hoshiarpur	Mukerian	21.8	18.1	11.9	1.7
Gurdaspur	Dhar Kalan	17.2	14.6	9.6	1.3
Hoshiarpur	Dasua	6.9	12.6	8.3	1.2
Rupnagar	Anandpur Sahib	16.1	11.4	7.5	1.1
Patiala	Patiala	1.5	4.5	3.0	0.42
Patiala	Nabha	4.7	4.0	2.6	0.37
Gurdaspur	Pathankot	3.2	2.6	1.7	0.24
Ludhiana	Samrala	1.6	2.5	1.7	0.23
Bathinda	Rampura Phul	1.1	2.3	1.5	0.21
Faridkot	Faridkot	1.7	1.7	1.1	0.16
Patiala	Rajpura	0.88	1.0	0.68	0.095
Jalandhar	Jalandhar-Ii	0.91	0.75	0.50	0.069
Ludhiana	Ludhiana(East)	0.79	0.66	0.43	0.061
Sangrur	Sangrur	0.27	0.44	0.29	0.041
Patiala	Samana	0.76	0.25	0.17	0.023
Patiala	Dera Bassi	0.25	0.20	0.13	0.019
Jalandhar	Jalandhar-I	0.090	0.074	0.049	0.0068
<b>Total</b>		<b>178.2</b>	<b>283.0</b>	<b>186.8</b>	<b>26.2</b>

## District Level Residue Wise

District level Residue-wise Data for Bathinda; Biomass Class : Forest						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.96	0.15	0.098	0.014	Open Forest
Catechu	Twigs	0.96	0.13	0.084	0.012	Open Forest
Catechu	Bark	0.96	0.13	0.084	0.012	Open Forest
Catechu	Branches	0.96	0.13	0.084	0.012	Open Forest
Babul	Leaves	0.96	0.11	0.071	0.0099	Open Forest
Others	Leaves	0.96	0.096	0.064	0.0089	Open Forest
Babul	Twigs	0.96	0.092	0.061	0.0085	Open Forest
Babul	Bark	0.96	0.092	0.061	0.0085	Open Forest
Babul	Branches	0.96	0.092	0.061	0.0085	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Others	Twigs	0.96	0.083	0.055	0.0076	Open Forest
Others	Bark	0.96	0.083	0.055	0.0076	Open Forest
Others	Branches	0.96	0.083	0.055	0.0076	Open Forest
Eucalyptus	Leaves	0.96	0.080	0.053	0.0074	Open Forest
Eucalyptus	Twigs	0.96	0.069	0.045	0.0063	Open Forest
Eucalyptus	Bark	0.96	0.069	0.045	0.0063	Open Forest
Eucalyptus	Branches	0.96	0.069	0.045	0.0063	Open Forest
Catechu	Leaves	0.15	0.063	0.042	0.0058	Dense Forest
Catechu	Branches	0.15	0.054	0.036	0.0050	Dense Forest
Catechu	Twigs	0.15	0.054	0.036	0.0050	Dense Forest
Catechu	Bark	0.15	0.054	0.036	0.0050	Dense Forest
Babul	Leaves	0.15	0.046	0.030	0.0042	Dense Forest
Others	Leaves	0.15	0.041	0.027	0.0038	Dense Forest
Babul	Branches	0.15	0.039	0.026	0.0036	Dense Forest
Babul	Twigs	0.15	0.039	0.026	0.0036	Dense Forest
Babul	Bark	0.15	0.039	0.026	0.0036	Dense Forest
Others	Bark	0.15	0.035	0.023	0.0033	Dense Forest
Others	Branches	0.15	0.035	0.023	0.0033	Dense Forest
Others	Twigs	0.15	0.035	0.023	0.0033	Dense Forest
Eucalyptus	Leaves	0.15	0.034	0.023	0.0032	Dense Forest
Eucalyptus	Branches	0.15	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Twigs	0.15	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Bark	0.15	0.029	0.019	0.0027	Dense Forest
Shisham	Leaves	0.96	0.0080	0.0053	0.00074	Open Forest
Shisham	Twigs	0.96	0.0069	0.0045	0.00064	Open Forest
Shisham	Bark	0.96	0.0069	0.0045	0.00064	Open Forest
Shisham	Branches	0.96	0.0069	0.0045	0.00064	Open Forest
White Mulberry	Leaves	0.96	0.0045	0.0030	0.00041	Open Forest
White Mulberry	Twigs	0.96	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Bark	0.96	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Branches	0.96	0.0038	0.0025	0.00035	Open Forest
Shisham	Leaves	0.15	0.0034	0.0023	0.00032	Dense Forest
Shisham	Branches	0.15	0.0029	0.0019	0.00027	Dense Forest
Shisham	Twigs	0.15	0.0029	0.0019	0.00027	Dense Forest
Shisham	Bark	0.15	0.0029	0.0019	0.00027	Dense Forest
Chir Pine	Leaves	0.96	0.0022	0.0015	0.00021	Open Forest
White Mulberry	Leaves	0.15	0.0019	0.0013	0.00018	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Chir Pine	Twigs	0.96	0.0019	0.0013	0.00018	Open Forest
Chir Pine	Bark	0.96	0.0019	0.0013	0.00018	Open Forest
Chir Pine	Branches	0.96	0.0019	0.0013	0.00018	Open Forest
White Mulberry	Branches	0.15	0.0016	0.0011	0.00015	Dense Forest
White Mulberry	Twigs	0.15	0.0016	0.0011	0.00015	Dense Forest
White Mulberry	Bark	0.15	0.0016	0.0011	0.00015	Dense Forest
Chir Pine	Leaves	0.15	0.00096	0.00063	8.83E-05	Dense Forest
Chir Pine	Branches	0.15	0.00082	0.00054	7.57E-05	Dense Forest
Chir Pine	Twigs	0.15	0.00082	0.00054	7.57E-05	Dense Forest
Chir Pine	Bark	0.15	0.00082	0.00054	7.57E-05	Dense Forest
<b>Total</b>		<b>1.1</b>	<b>2.3</b>	<b>1.5</b>	<b>0.21</b>	

<b>District level Residue-wise Data for Faridkot; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	1.3	0.099	0.065	0.0091	Open Forest
Catechu	Branches	1.3	0.085	0.056	0.0078	Open Forest
Catechu	Twigs	1.3	0.085	0.056	0.0078	Open Forest
Catechu	Bark	1.3	0.085	0.056	0.0078	Open Forest
Babul	Leaves	1.3	0.072	0.047	0.0066	Open Forest
Others	Leaves	1.3	0.064	0.042	0.0059	Open Forest
Babul	Branches	1.3	0.061	0.040	0.0057	Open Forest
Babul	Bark	1.3	0.061	0.040	0.0057	Open Forest
Babul	Twigs	1.3	0.061	0.040	0.0057	Open Forest
Others	Bark	1.3	0.055	0.036	0.0051	Open Forest
Others	Branches	1.3	0.055	0.036	0.0051	Open Forest
Others	Twigs	1.3	0.055	0.036	0.0051	Open Forest
Catechu	Leaves	0.25	0.053	0.035	0.0049	Dense Forest
Eucalyptus	Leaves	1.3	0.053	0.035	0.0049	Open Forest
Catechu	Twigs	0.25	0.046	0.030	0.0042	Dense Forest
Catechu	Bark	0.25	0.046	0.030	0.0042	Dense Forest
Catechu	Branches	0.25	0.046	0.030	0.0042	Dense Forest
Eucalyptus	Twigs	1.3	0.046	0.030	0.0042	Open Forest
Eucalyptus	Bark	1.3	0.046	0.030	0.0042	Open Forest
Eucalyptus	Branches	1.3	0.046	0.030	0.0042	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Leaves	0.25	0.039	0.026	0.0036	Dense Forest
Others	Leaves	0.25	0.035	0.023	0.0032	Dense Forest
Babul	Twigs	0.25	0.033	0.022	0.0031	Dense Forest
Babul	Bark	0.25	0.033	0.022	0.0031	Dense Forest
Babul	Branches	0.25	0.033	0.022	0.0031	Dense Forest
Others	Branches	0.25	0.030	0.020	0.0028	Dense Forest
Others	Twigs	0.25	0.030	0.020	0.0028	Dense Forest
Others	Bark	0.25	0.030	0.020	0.0028	Dense Forest
Eucalyptus	Leaves	0.25	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Branches	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Twigs	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Bark	0.25	0.025	0.016	0.0023	Dense Forest
Shisham	Leaves	1.3	0.0054	0.0035	0.00050	Open Forest
Catechu	Leaves	0.17	0.0052	0.0034	0.00048	Scrub
Shisham	Branches	1.3	0.0046	0.0030	0.00042	Open Forest
Shisham	Bark	1.3	0.0046	0.0030	0.00042	Open Forest
Shisham	Twigs	1.3	0.0046	0.0030	0.00042	Open Forest
Catechu	Branches	0.17	0.0044	0.0029	0.00041	Scrub
Catechu	Twigs	0.17	0.0044	0.0029	0.00041	Scrub
Catechu	Bark	0.17	0.0044	0.0029	0.00041	Scrub
Babul	Leaves	0.17	0.0037	0.0025	0.00035	Scrub
Others	Leaves	0.17	0.0034	0.0022	0.00031	Scrub
Babul	Branches	0.17	0.0032	0.0021	0.00030	Scrub
Babul	Bark	0.17	0.0032	0.0021	0.00030	Scrub
Babul	Twigs	0.17	0.0032	0.0021	0.00030	Scrub
White Mulberry	Leaves	1.3	0.0030	0.0020	0.00028	Open Forest
Shisham	Leaves	0.25	0.0029	0.0019	0.00027	Dense Forest
Others	Branches	0.17	0.0029	0.0019	0.00027	Scrub
Others	Bark	0.17	0.0029	0.0019	0.00027	Scrub
Others	Twigs	0.17	0.0029	0.0019	0.00027	Scrub
Eucalyptus	Leaves	0.17	0.0028	0.0018	0.00026	Scrub
White Mulberry	Bark	1.3	0.0025	0.0017	0.00024	Open Forest
White Mulberry	Branches	1.3	0.0025	0.0017	0.00024	Open Forest
White Mulberry	Twigs	1.3	0.0025	0.0017	0.00024	Open Forest
Shisham	Twigs	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Bark	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Branches	0.25	0.0025	0.0016	0.00023	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Eucalyptus	Twigs	0.17	0.0024	0.0016	0.00022	Scrub
Eucalyptus	Branches	0.17	0.0024	0.0016	0.00022	Scrub
Eucalyptus	Bark	0.17	0.0024	0.0016	0.00022	Scrub
White Mulberry	Leaves	0.25	0.0016	0.0011	0.00015	Dense Forest
Chir Pine	Leaves	1.3	0.0015	0.00098	0.00014	Open Forest
White Mulberry	Twigs	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Bark	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Branches	0.25	0.0014	0.00091	0.00013	Dense Forest
Chir Pine	Bark	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Branches	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Twigs	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Leaves	0.25	0.00081	0.00053	7.45E-05	Dense Forest
Chir Pine	Branches	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Chir Pine	Bark	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Chir Pine	Twigs	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Shisham	Leaves	0.17	0.00028	0.00019	2.60E-05	Scrub
Shisham	Twigs	0.17	0.00024	0.00016	2.23E-05	Scrub
Shisham	Branches	0.17	0.00024	0.00016	2.23E-05	Scrub
Shisham	Bark	0.17	0.00024	0.00016	2.23E-05	Scrub
White Mulberry	Leaves	0.17	0.00016	0.00010	1.45E-05	Scrub
White Mulberry	Branches	0.17	0.00013	8.81E-05	1.23E-05	Scrub
White Mulberry	Bark	0.17	0.00013	8.81E-05	1.23E-05	Scrub
White Mulberry	Twigs	0.17	0.00013	8.81E-05	1.23E-05	Scrub
Chir Pine	Leaves	0.17	7.81E-05	5.15E-05	7.21E-06	Scrub
Chir Pine	Branches	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
Chir Pine	Bark	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
Chir Pine	Twigs	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
<b>Total</b>		<b>1.7</b>	<b>1.7</b>	<b>1.1</b>	<b>0.16</b>	

<b>District level Residue-wise Data for Gurdaspur; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	19.1	1.5	0.97	0.14	Open Forest
Catechu	Branches	19.1	1.3	0.83	0.12	Open Forest
Catechu	Twigs	19.1	1.3	0.83	0.12	Open Forest
Catechu	Bark	19.1	1.3	0.83	0.12	Open Forest
Babul	Leaves	19.1	1.1	0.70	0.098	Open Forest
Others	Leaves	19.1	0.96	0.63	0.088	Open Forest
Babul	Branches	19.1	0.91	0.60	0.084	Open Forest
Babul	Bark	19.1	0.91	0.60	0.084	Open Forest
Babul	Twigs	19.1	0.91	0.60	0.084	Open Forest
Others	Bark	19.1	0.82	0.54	0.076	Open Forest
Others	Branches	19.1	0.82	0.54	0.076	Open Forest
Others	Twigs	19.1	0.82	0.54	0.076	Open Forest
Eucalyptus	Leaves	19.1	0.79	0.52	0.073	Open Forest
Eucalyptus	Twigs	19.1	0.68	0.45	0.063	Open Forest
Eucalyptus	Bark	19.1	0.68	0.45	0.063	Open Forest
Eucalyptus	Branches	19.1	0.68	0.45	0.063	Open Forest
Catechu	Leaves	0.48	0.10	0.068	0.0096	Dense Forest
Catechu	Twigs	0.48	0.089	0.059	0.0082	Dense Forest
Catechu	Bark	0.48	0.089	0.059	0.0082	Dense Forest
Catechu	Branches	0.48	0.089	0.059	0.0082	Dense Forest
Shisham	Leaves	19.1	0.080	0.053	0.0074	Open Forest
Babul	Leaves	0.48	0.075	0.050	0.0069	Dense Forest
Shisham	Bark	19.1	0.068	0.045	0.0063	Open Forest
Shisham	Branches	19.1	0.068	0.045	0.0063	Open Forest
Shisham	Twigs	19.1	0.068	0.045	0.0063	Open Forest
Others	Leaves	0.48	0.068	0.045	0.0063	Dense Forest
Babul	Twigs	0.48	0.064	0.043	0.0060	Dense Forest
Babul	Bark	0.48	0.064	0.043	0.0060	Dense Forest
Babul	Branches	0.48	0.064	0.043	0.0060	Dense Forest
Others	Branches	0.48	0.058	0.038	0.0054	Dense Forest
Others	Twigs	0.48	0.058	0.038	0.0054	Dense Forest
Others	Bark	0.48	0.058	0.038	0.0054	Dense Forest
Eucalyptus	Leaves	0.48	0.056	0.037	0.0052	Dense Forest
Eucalyptus	Branches	0.48	0.048	0.032	0.0044	Dense Forest
Eucalyptus	Twigs	0.48	0.048	0.032	0.0044	Dense Forest
Eucalyptus	Bark	0.48	0.048	0.032	0.0044	Dense Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Leaves	19.1	0.045	0.029	0.0041	Open Forest
White Mulberry	Branches	19.1	0.038	0.025	0.0035	Open Forest
White Mulberry	Bark	19.1	0.038	0.025	0.0035	Open Forest
White Mulberry	Twigs	19.1	0.038	0.025	0.0035	Open Forest
Chir Pine	Leaves	19.1	0.022	0.015	0.0020	Open Forest
Catechu	Leaves	0.71	0.022	0.014	0.0020	Scrub
Chir Pine	Bark	19.1	0.019	0.013	0.0018	Open Forest
Chir Pine	Branches	19.1	0.019	0.013	0.0018	Open Forest
Chir Pine	Twigs	19.1	0.019	0.013	0.0018	Open Forest
Catechu	Branches	0.71	0.019	0.012	0.0017	Scrub
Catechu	Twigs	0.71	0.019	0.012	0.0017	Scrub
Catechu	Bark	0.71	0.019	0.012	0.0017	Scrub
Babul	Leaves	0.71	0.016	0.010	0.0015	Scrub
Others	Leaves	0.71	0.014	0.0094	0.0013	Scrub
Babul	Branches	0.71	0.014	0.0090	0.0013	Scrub
Babul	Bark	0.71	0.014	0.0090	0.0013	Scrub
Babul	Twigs	0.71	0.014	0.0090	0.0013	Scrub
Others	Branches	0.71	0.012	0.0081	0.0011	Scrub
Others	Bark	0.71	0.012	0.0081	0.0011	Scrub
Others	Twigs	0.71	0.012	0.0081	0.0011	Scrub
Eucalyptus	Leaves	0.71	0.012	0.0078	0.0011	Scrub
Eucalyptus	Twigs	0.71	0.010	0.0067	0.00094	Scrub
Eucalyptus	Branches	0.71	0.010	0.0067	0.00094	Scrub
Eucalyptus	Bark	0.71	0.010	0.0067	0.00094	Scrub
Shisham	Leaves	0.48	0.0056	0.0037	0.00052	Dense Forest
Shisham	Twigs	0.48	0.0048	0.0032	0.00045	Dense Forest
Shisham	Bark	0.48	0.0048	0.0032	0.00045	Dense Forest
Shisham	Branches	0.48	0.0048	0.0032	0.00045	Dense Forest
White Mulberry	Leaves	0.48	0.0031	0.0021	0.00029	Dense Forest
White Mulberry	Twigs	0.48	0.0027	0.0018	0.00025	Dense Forest
White Mulberry	Bark	0.48	0.0027	0.0018	0.00025	Dense Forest
White Mulberry	Branches	0.48	0.0027	0.0018	0.00025	Dense Forest
Chir Pine	Leaves	0.48	0.0016	0.0010	0.00014	Dense Forest
Chir Pine	Branches	0.48	0.0013	0.00089	0.00012	Dense Forest
Chir Pine	Bark	0.48	0.0013	0.00089	0.00012	Dense Forest
Chir Pine	Twigs	0.48	0.0013	0.00089	0.00012	Dense Forest
Shisham	Leaves	0.71	0.0012	0.00079	0.00011	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	0.71	0.0010	0.00067	9.44E-05	Scrub
Shisham	Branches	0.71	0.0010	0.00067	9.44E-05	Scrub
Shisham	Bark	0.71	0.0010	0.00067	9.44E-05	Scrub
White Mulberry	Leaves	0.71	0.00067	0.00044	6.15E-05	Scrub
White Mulberry	Branches	0.71	0.00057	0.00037	5.23E-05	Scrub
White Mulberry	Bark	0.71	0.00057	0.00037	5.23E-05	Scrub
White Mulberry	Twigs	0.71	0.00057	0.00037	5.23E-05	Scrub
Chir Pine	Leaves	0.71	0.00033	0.00022	3.06E-05	Scrub
Chir Pine	Branches	0.71	0.00028	0.00019	2.62E-05	Scrub
Chir Pine	Bark	0.71	0.00028	0.00019	2.62E-05	Scrub
Chir Pine	Twigs	0.71	0.00028	0.00019	2.62E-05	Scrub
<b>Total</b>		<b>20.3</b>	<b>17.2</b>	<b>11.3</b>	<b>1.6</b>	

<b>District level Residue-wise Data for Hoshiarpur; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	31.8	6.9	4.5	0.64	Dense Forest
Catechu	Bark	31.8	5.9	3.9	0.55	Dense Forest
Catechu	Branches	31.8	5.9	3.9	0.55	Dense Forest
Catechu	Twigs	31.8	5.9	3.9	0.55	Dense Forest
Catechu	Leaves	50.0	5.8	3.9	0.54	Open Forest
Catechu	Twigs	50.0	5.0	3.3	0.46	Open Forest
Catechu	Branches	50.0	5.0	3.3	0.46	Open Forest
Catechu	Bark	50.0	5.0	3.3	0.46	Open Forest
Babul	Leaves	31.8	5.0	3.3	0.46	Dense Forest
Others	Leaves	31.8	4.5	3.0	0.42	Dense Forest
Babul	Twigs	31.8	4.3	2.8	0.40	Dense Forest
Babul	Bark	31.8	4.3	2.8	0.40	Dense Forest
Babul	Branches	31.8	4.3	2.8	0.40	Dense Forest
Babul	Leaves	50.0	4.2	2.8	0.39	Open Forest
Others	Twigs	31.8	3.9	2.5	0.36	Dense Forest
Others	Bark	31.8	3.9	2.5	0.36	Dense Forest
Others	Branches	31.8	3.9	2.5	0.36	Dense Forest
Others	Leaves	50.0	3.8	2.5	0.35	Open Forest
Eucalyptus	Leaves	31.8	3.7	2.5	0.34	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Twigs	50.0	3.6	2.4	0.34	Open Forest
Babul	Branches	50.0	3.6	2.4	0.34	Open Forest
Babul	Bark	50.0	3.6	2.4	0.34	Open Forest
Others	Twigs	50.0	3.3	2.2	0.30	Open Forest
Others	Branches	50.0	3.3	2.2	0.30	Open Forest
Others	Bark	50.0	3.3	2.2	0.30	Open Forest
Eucalyptus	Twigs	31.8	3.2	2.1	0.29	Dense Forest
Eucalyptus	Bark	31.8	3.2	2.1	0.29	Dense Forest
Eucalyptus	Branches	31.8	3.2	2.1	0.29	Dense Forest
Eucalyptus	Leaves	50.0	3.2	2.1	0.29	Open Forest
Eucalyptus	Twigs	50.0	2.7	1.8	0.25	Open Forest
Eucalyptus	Branches	50.0	2.7	1.8	0.25	Open Forest
Eucalyptus	Bark	50.0	2.7	1.8	0.25	Open Forest
Shisham	Leaves	31.8	0.37	0.25	0.035	Dense Forest
Shisham	Twigs	31.8	0.32	0.21	0.030	Dense Forest
Shisham	Bark	31.8	0.32	0.21	0.030	Dense Forest
Shisham	Branches	31.8	0.32	0.21	0.030	Dense Forest
Shisham	Leaves	50.0	0.32	0.21	0.029	Open Forest
Shisham	Twigs	50.0	0.27	0.18	0.025	Open Forest
Shisham	Branches	50.0	0.27	0.18	0.025	Open Forest
Shisham	Bark	50.0	0.27	0.18	0.025	Open Forest
White Mulberry	Leaves	31.8	0.21	0.14	0.019	Dense Forest
White Mulberry	Twigs	31.8	0.18	0.12	0.016	Dense Forest
White Mulberry	Bark	31.8	0.18	0.12	0.016	Dense Forest
White Mulberry	Branches	31.8	0.18	0.12	0.016	Dense Forest
White Mulberry	Leaves	50.0	0.18	0.12	0.016	Open Forest
Catechu	Leaves	2.5	0.15	0.10	0.014	Scrub
White Mulberry	Twigs	50.0	0.15	0.100	0.014	Open Forest
White Mulberry	Branches	50.0	0.15	0.100	0.014	Open Forest
White Mulberry	Bark	50.0	0.15	0.100	0.014	Open Forest
Catechu	Bark	2.5	0.13	0.087	0.012	Scrub
Catechu	Branches	2.5	0.13	0.087	0.012	Scrub
Catechu	Twigs	2.5	0.13	0.087	0.012	Scrub
Babul	Leaves	2.5	0.11	0.074	0.010	Scrub
Chir Pine	Leaves	31.8	0.10	0.069	0.0096	Dense Forest
Others	Leaves	2.5	0.10	0.066	0.0093	Scrub
Babul	Twigs	2.5	0.096	0.063	0.0089	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Bark	2.5	0.096	0.063	0.0089	Scrub
Babul	Branches	2.5	0.096	0.063	0.0089	Scrub
Chir Pine	Bark	31.8	0.089	0.059	0.0082	Dense Forest
Chir Pine	Twigs	31.8	0.089	0.059	0.0082	Dense Forest
Chir Pine	Branches	31.8	0.089	0.059	0.0082	Dense Forest
Chir Pine	Leaves	50.0	0.088	0.058	0.0081	Open Forest
Others	Twigs	2.5	0.086	0.057	0.0080	Scrub
Others	Bark	2.5	0.086	0.057	0.0080	Scrub
Others	Branches	2.5	0.086	0.057	0.0080	Scrub
Eucalyptus	Leaves	2.5	0.083	0.055	0.0077	Scrub
Chir Pine	Twigs	50.0	0.076	0.050	0.0070	Open Forest
Chir Pine	Branches	50.0	0.076	0.050	0.0070	Open Forest
Chir Pine	Bark	50.0	0.076	0.050	0.0070	Open Forest
Eucalyptus	Twigs	2.5	0.071	0.047	0.0066	Scrub
Eucalyptus	Bark	2.5	0.071	0.047	0.0066	Scrub
Eucalyptus	Branches	2.5	0.071	0.047	0.0066	Scrub
Shisham	Leaves	2.5	0.0084	0.0055	0.00077	Scrub
Shisham	Twigs	2.5	0.0072	0.0047	0.00066	Scrub
Shisham	Bark	2.5	0.0072	0.0047	0.00066	Scrub
Shisham	Branches	2.5	0.0072	0.0047	0.00066	Scrub
White Mulberry	Leaves	2.5	0.0047	0.0031	0.00043	Scrub
White Mulberry	Twigs	2.5	0.0040	0.0026	0.00037	Scrub
White Mulberry	Bark	2.5	0.0040	0.0026	0.00037	Scrub
White Mulberry	Branches	2.5	0.0040	0.0026	0.00037	Scrub
Chir Pine	Leaves	2.5	0.0023	0.0015	0.00022	Scrub
Chir Pine	Twigs	2.5	0.0020	0.0013	0.00018	Scrub
Chir Pine	Branches	2.5	0.0020	0.0013	0.00018	Scrub
Chir Pine	Bark	2.5	0.0020	0.0013	0.00018	Scrub
<b>Total</b>		<b>84.4</b>	<b>138.8</b>	<b>91.6</b>	<b>12.8</b>	

<b>District level Residue-wise Data for Jalandhar; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.00	0.076	0.050	0.0071	Open Forest
Catechu	Twigs	1.00	0.066	0.043	0.0061	Open Forest
Catechu	Bark	1.00	0.066	0.043	0.0061	Open Forest
Catechu	Branches	1.00	0.066	0.043	0.0061	Open Forest
Babul	Leaves	1.00	0.055	0.037	0.0051	Open Forest
Others	Leaves	1.00	0.050	0.033	0.0046	Open Forest
Babul	Twigs	1.00	0.048	0.031	0.0044	Open Forest
Babul	Bark	1.00	0.048	0.031	0.0044	Open Forest
Babul	Branches	1.00	0.048	0.031	0.0044	Open Forest
Others	Twigs	1.00	0.043	0.028	0.0040	Open Forest
Others	Bark	1.00	0.043	0.028	0.0040	Open Forest
Others	Branches	1.00	0.043	0.028	0.0040	Open Forest
Eucalyptus	Leaves	1.00	0.041	0.027	0.0038	Open Forest
Eucalyptus	Twigs	1.00	0.035	0.023	0.0033	Open Forest
Eucalyptus	Bark	1.00	0.035	0.023	0.0033	Open Forest
Eucalyptus	Branches	1.00	0.035	0.023	0.0033	Open Forest
Shisham	Leaves	1.00	0.0042	0.0027	0.00038	Open Forest
Shisham	Twigs	1.00	0.0036	0.0024	0.00033	Open Forest
Shisham	Bark	1.00	0.0036	0.0024	0.00033	Open Forest
Shisham	Branches	1.00	0.0036	0.0024	0.00033	Open Forest
White Mulberry	Leaves	1.00	0.0023	0.0015	0.00021	Open Forest
White Mulberry	Twigs	1.00	0.0020	0.0013	0.00018	Open Forest
White Mulberry	Bark	1.00	0.0020	0.0013	0.00018	Open Forest
White Mulberry	Branches	1.00	0.0020	0.0013	0.00018	Open Forest
Chir Pine	Leaves	1.00	0.0012	0.00076	0.00011	Open Forest
Chir Pine	Twigs	1.00	0.00099	0.00065	9.15E-05	Open Forest
Chir Pine	Bark	1.00	0.00099	0.00065	9.15E-05	Open Forest
Chir Pine	Branches	1.00	0.00099	0.00065	9.15E-05	Open Forest
<b>Total</b>		<b>1.00</b>	<b>0.82</b>	<b>0.54</b>	<b>0.076</b>	

<b>District level Residue-wise Data for Ludhiana; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.78	0.17	0.11	0.015	Dense Forest
Catechu	Twigs	0.78	0.14	0.095	0.013	Dense Forest
Catechu	Bark	0.78	0.14	0.095	0.013	Dense Forest
Catechu	Branches	0.78	0.14	0.095	0.013	Dense Forest
Catechu	Leaves	1.6	0.13	0.083	0.012	Open Forest
Babul	Leaves	0.78	0.12	0.080	0.011	Dense Forest
Others	Leaves	0.78	0.11	0.072	0.010	Dense Forest
Catechu	Twigs	1.6	0.11	0.071	0.0099	Open Forest
Catechu	Branches	1.6	0.11	0.071	0.0099	Open Forest
Catechu	Bark	1.6	0.11	0.071	0.0099	Open Forest
Babul	Twigs	0.78	0.10	0.069	0.0096	Dense Forest
Babul	Bark	0.78	0.10	0.069	0.0096	Dense Forest
Babul	Branches	0.78	0.10	0.069	0.0096	Dense Forest
Others	Twigs	0.78	0.093	0.062	0.0086	Dense Forest
Others	Bark	0.78	0.093	0.062	0.0086	Dense Forest
Others	Branches	0.78	0.093	0.062	0.0086	Dense Forest
Babul	Leaves	1.6	0.091	0.060	0.0084	Open Forest
Eucalyptus	Leaves	0.78	0.090	0.060	0.0084	Dense Forest
Others	Leaves	1.6	0.082	0.054	0.0076	Open Forest
Babul	Twigs	1.6	0.078	0.052	0.0072	Open Forest
Babul	Branches	1.6	0.078	0.052	0.0072	Open Forest
Babul	Bark	1.6	0.078	0.052	0.0072	Open Forest
Eucalyptus	Twigs	0.78	0.077	0.051	0.0072	Dense Forest
Eucalyptus	Bark	0.78	0.077	0.051	0.0072	Dense Forest
Eucalyptus	Branches	0.78	0.077	0.051	0.0072	Dense Forest
Others	Twigs	1.6	0.070	0.046	0.0065	Open Forest
Others	Branches	1.6	0.070	0.046	0.0065	Open Forest
Others	Bark	1.6	0.070	0.046	0.0065	Open Forest
Eucalyptus	Leaves	1.6	0.068	0.045	0.0063	Open Forest
Eucalyptus	Twigs	1.6	0.058	0.038	0.0054	Open Forest
Eucalyptus	Branches	1.6	0.058	0.038	0.0054	Open Forest
Eucalyptus	Bark	1.6	0.058	0.038	0.0054	Open Forest
Shisham	Leaves	0.78	0.0091	0.0060	0.00084	Dense Forest
Shisham	Twigs	0.78	0.0078	0.0051	0.00072	Dense Forest
Shisham	Bark	0.78	0.0078	0.0051	0.00072	Dense Forest
Shisham	Branches	0.78	0.0078	0.0051	0.00072	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Leaves	1.6	0.0068	0.0045	0.00063	Open Forest
Shisham	Twigs	1.6	0.0059	0.0039	0.00054	Open Forest
Shisham	Branches	1.6	0.0059	0.0039	0.00054	Open Forest
Shisham	Bark	1.6	0.0059	0.0039	0.00054	Open Forest
White Mulberry	Leaves	0.78	0.0051	0.0034	0.00047	Dense Forest
White Mulberry	Twigs	0.78	0.0043	0.0029	0.00040	Dense Forest
White Mulberry	Bark	0.78	0.0043	0.0029	0.00040	Dense Forest
White Mulberry	Branches	0.78	0.0043	0.0029	0.00040	Dense Forest
White Mulberry	Leaves	1.6	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Twigs	1.6	0.0032	0.0021	0.00030	Open Forest
White Mulberry	Branches	1.6	0.0032	0.0021	0.00030	Open Forest
White Mulberry	Bark	1.6	0.0032	0.0021	0.00030	Open Forest
Chir Pine	Leaves	0.78	0.0025	0.0017	0.00023	Dense Forest
Chir Pine	Twigs	0.78	0.0022	0.0014	0.00020	Dense Forest
Chir Pine	Bark	0.78	0.0022	0.0014	0.00020	Dense Forest
Chir Pine	Branches	0.78	0.0022	0.0014	0.00020	Dense Forest
Chir Pine	Leaves	1.6	0.0019	0.0013	0.00018	Open Forest
Chir Pine	Twigs	1.6	0.0016	0.0011	0.00015	Open Forest
Chir Pine	Branches	1.6	0.0016	0.0011	0.00015	Open Forest
Chir Pine	Bark	1.6	0.0016	0.0011	0.00015	Open Forest
Catechu	Leaves	0.011	0.00034	0.00022	3.15E-05	Scrub
Catechu	Twigs	0.011	0.00029	0.00019	2.70E-05	Scrub
Catechu	Bark	0.011	0.00029	0.00019	2.70E-05	Scrub
Catechu	Branches	0.011	0.00029	0.00019	2.70E-05	Scrub
Babul	Leaves	0.011	0.00025	0.00016	2.28E-05	Scrub
Others	Leaves	0.011	0.00022	0.00015	2.05E-05	Scrub
Babul	Twigs	0.011	0.00021	0.00014	1.96E-05	Scrub
Babul	Bark	0.011	0.00021	0.00014	1.96E-05	Scrub
Babul	Branches	0.011	0.00021	0.00014	1.96E-05	Scrub
Others	Twigs	0.011	0.00019	0.00013	1.76E-05	Scrub
Others	Bark	0.011	0.00019	0.00013	1.76E-05	Scrub
Others	Branches	0.011	0.00019	0.00013	1.76E-05	Scrub
Eucalyptus	Leaves	0.011	0.00018	0.00012	1.70E-05	Scrub
Eucalyptus	Twigs	0.011	0.00016	0.00010	1.46E-05	Scrub
Eucalyptus	Bark	0.011	0.00016	0.00010	1.46E-05	Scrub
Eucalyptus	Branches	0.011	0.00016	0.00010	1.46E-05	Scrub
Shisham	Leaves	0.011	1.85E-05	1.22E-05	1.71E-06	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
Shisham	Bark	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
Shisham	Branches	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
White Mulberry	Leaves	0.011	1.03E-05	6.83E-06	9.56E-07	Scrub
White Mulberry	Twigs	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
White Mulberry	Bark	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
White Mulberry	Branches	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
Chir Pine	Leaves	0.011	5.15E-06	3.40E-06	4.75E-07	Scrub
Chir Pine	Twigs	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
Chir Pine	Bark	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
Chir Pine	Branches	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
<b>Total</b>		<b>2.4</b>	<b>3.2</b>	<b>2.1</b>	<b>0.29</b>	

<b>District level Residue-wise Data for Nawanshahr; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	17.9	3.9	2.5	0.36	Dense Forest
Catechu	Twigs	17.9	3.3	2.2	0.31	Dense Forest
Catechu	Bark	17.9	3.3	2.2	0.31	Dense Forest
Catechu	Branches	17.9	3.3	2.2	0.31	Dense Forest
Babul	Leaves	17.9	2.8	1.8	0.26	Dense Forest
Others	Leaves	17.9	2.5	1.7	0.23	Dense Forest
Babul	Twigs	17.9	2.4	1.6	0.22	Dense Forest
Babul	Bark	17.9	2.4	1.6	0.22	Dense Forest
Babul	Branches	17.9	2.4	1.6	0.22	Dense Forest
Others	Twigs	17.9	2.2	1.4	0.20	Dense Forest
Others	Bark	17.9	2.2	1.4	0.20	Dense Forest
Others	Branches	17.9	2.2	1.4	0.20	Dense Forest
Eucalyptus	Leaves	17.9	2.1	1.4	0.19	Dense Forest
Eucalyptus	Twigs	17.9	1.8	1.2	0.16	Dense Forest
Eucalyptus	Bark	17.9	1.8	1.2	0.16	Dense Forest
Eucalyptus	Branches	17.9	1.8	1.2	0.16	Dense Forest
Shisham	Leaves	17.9	0.21	0.14	0.019	Dense Forest
Shisham	Twigs	17.9	0.18	0.12	0.017	Dense Forest
Shisham	Bark	17.9	0.18	0.12	0.017	Dense Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Branches	17.9	0.18	0.12	0.017	Dense Forest
White Mulberry	Leaves	17.9	0.12	0.077	0.011	Dense Forest
White Mulberry	Twigs	17.9	0.100	0.066	0.0092	Dense Forest
White Mulberry	Bark	17.9	0.100	0.066	0.0092	Dense Forest
White Mulberry	Branches	17.9	0.100	0.066	0.0092	Dense Forest
Chir Pine	Leaves	17.9	0.058	0.038	0.0054	Dense Forest
Chir Pine	Twigs	17.9	0.050	0.033	0.0046	Dense Forest
Chir Pine	Bark	17.9	0.050	0.033	0.0046	Dense Forest
Chir Pine	Branches	17.9	0.050	0.033	0.0046	Dense Forest
<b>Total</b>		<b>17.9</b>	<b>41.5</b>	<b>27.4</b>	<b>3.8</b>	

<b>District level Residue-wise Data for Patiala; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	6.5	0.56	0.37	0.052	Open Forest
Catechu	Branches	6.5	0.48	0.32	0.044	Open Forest
Catechu	Twigs	6.5	0.48	0.32	0.044	Open Forest
Catechu	Bark	6.5	0.48	0.32	0.044	Open Forest
Babul	Leaves	6.5	0.40	0.27	0.037	Open Forest
Others	Leaves	6.5	0.36	0.24	0.034	Open Forest
Babul	Branches	6.5	0.35	0.23	0.032	Open Forest
Babul	Bark	6.5	0.35	0.23	0.032	Open Forest
Babul	Twigs	6.5	0.35	0.23	0.032	Open Forest
Catechu	Leaves	0.92	0.35	0.23	0.032	Dense Forest
Others	Bark	6.5	0.31	0.21	0.029	Open Forest
Others	Branches	6.5	0.31	0.21	0.029	Open Forest
Others	Twigs	6.5	0.31	0.21	0.029	Open Forest
Eucalyptus	Leaves	6.5	0.30	0.20	0.028	Open Forest
Catechu	Twigs	0.92	0.30	0.20	0.027	Dense Forest
Catechu	Bark	0.92	0.30	0.20	0.027	Dense Forest
Catechu	Branches	0.92	0.30	0.20	0.027	Dense Forest
Eucalyptus	Twigs	6.5	0.26	0.17	0.024	Open Forest
Eucalyptus	Bark	6.5	0.26	0.17	0.024	Open Forest
Eucalyptus	Branches	6.5	0.26	0.17	0.024	Open Forest
Babul	Leaves	0.92	0.25	0.17	0.023	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Others	Leaves	0.92	0.23	0.15	0.021	Dense Forest
Babul	Twigs	0.92	0.21	0.14	0.020	Dense Forest
Babul	Bark	0.92	0.21	0.14	0.020	Dense Forest
Babul	Branches	0.92	0.21	0.14	0.020	Dense Forest
Others	Branches	0.92	0.19	0.13	0.018	Dense Forest
Others	Twigs	0.92	0.19	0.13	0.018	Dense Forest
Others	Bark	0.92	0.19	0.13	0.018	Dense Forest
Eucalyptus	Leaves	0.92	0.19	0.12	0.017	Dense Forest
Eucalyptus	Branches	0.92	0.16	0.11	0.015	Dense Forest
Eucalyptus	Twigs	0.92	0.16	0.11	0.015	Dense Forest
Eucalyptus	Bark	0.92	0.16	0.11	0.015	Dense Forest
Shisham	Leaves	6.5	0.030	0.020	0.0028	Open Forest
Shisham	Twigs	6.5	0.026	0.017	0.0024	Open Forest
Shisham	Bark	6.5	0.026	0.017	0.0024	Open Forest
Shisham	Branches	6.5	0.026	0.017	0.0024	Open Forest
Catechu	Leaves	0.76	0.023	0.015	0.0022	Scrub
Catechu	Branches	0.76	0.020	0.013	0.0018	Scrub
Catechu	Twigs	0.76	0.020	0.013	0.0018	Scrub
Catechu	Bark	0.76	0.020	0.013	0.0018	Scrub
Shisham	Leaves	0.92	0.019	0.012	0.0017	Dense Forest
White Mulberry	Leaves	6.5	0.017	0.011	0.0016	Open Forest
Babul	Leaves	0.76	0.017	0.011	0.0016	Scrub
Shisham	Bark	0.92	0.016	0.011	0.0015	Dense Forest
Shisham	Branches	0.92	0.016	0.011	0.0015	Dense Forest
Shisham	Twigs	0.92	0.016	0.011	0.0015	Dense Forest
Others	Leaves	0.76	0.015	0.010	0.0014	Scrub
Babul	Branches	0.76	0.014	0.0096	0.0013	Scrub
Babul	Bark	0.76	0.014	0.0096	0.0013	Scrub
Babul	Twigs	0.76	0.014	0.0096	0.0013	Scrub
White Mulberry	Bark	6.5	0.014	0.0095	0.0013	Open Forest
White Mulberry	Branches	6.5	0.014	0.0095	0.0013	Open Forest
White Mulberry	Twigs	6.5	0.014	0.0095	0.0013	Open Forest
Others	Branches	0.76	0.013	0.0086	0.0012	Scrub
Others	Bark	0.76	0.013	0.0086	0.0012	Scrub
Others	Twigs	0.76	0.013	0.0086	0.0012	Scrub
Eucalyptus	Leaves	0.76	0.013	0.0083	0.0012	Scrub
Eucalyptus	Twigs	0.76	0.011	0.0071	0.00100	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Eucalyptus	Branches	0.76	0.011	0.0071	0.00100	Scrub
Eucalyptus	Bark	0.76	0.011	0.0071	0.00100	Scrub
White Mulberry	Leaves	0.92	0.010	0.0069	0.00097	Dense Forest
White Mulberry	Branches	0.92	0.0089	0.0059	0.00083	Dense Forest
White Mulberry	Bark	0.92	0.0089	0.0059	0.00083	Dense Forest
White Mulberry	Twigs	0.92	0.0089	0.0059	0.00083	Dense Forest
Chir Pine	Leaves	6.5	0.0084	0.0056	0.00078	Open Forest
Chir Pine	Bark	6.5	0.0072	0.0048	0.00067	Open Forest
Chir Pine	Branches	6.5	0.0072	0.0048	0.00067	Open Forest
Chir Pine	Twigs	6.5	0.0072	0.0048	0.00067	Open Forest
Chir Pine	Leaves	0.92	0.0052	0.0034	0.00048	Dense Forest
Chir Pine	Branches	0.92	0.0045	0.0030	0.00041	Dense Forest
Chir Pine	Bark	0.92	0.0045	0.0030	0.00041	Dense Forest
Chir Pine	Twigs	0.92	0.0045	0.0030	0.00041	Dense Forest
Shisham	Leaves	0.76	0.0013	0.00084	0.00012	Scrub
Shisham	Twigs	0.76	0.0011	0.00072	0.00010	Scrub
Shisham	Branches	0.76	0.0011	0.00072	0.00010	Scrub
Shisham	Bark	0.76	0.0011	0.00072	0.00010	Scrub
White Mulberry	Leaves	0.76	0.00071	0.00047	6.54E-05	Scrub
White Mulberry	Branches	0.76	0.00060	0.00040	5.57E-05	Scrub
White Mulberry	Bark	0.76	0.00060	0.00040	5.57E-05	Scrub
White Mulberry	Twigs	0.76	0.00060	0.00040	5.57E-05	Scrub
Chir Pine	Leaves	0.76	0.00035	0.00023	3.25E-05	Scrub
Chir Pine	Branches	0.76	0.00030	0.00020	2.79E-05	Scrub
Chir Pine	Bark	0.76	0.00030	0.00020	2.79E-05	Scrub
Chir Pine	Twigs	0.76	0.00030	0.00020	2.79E-05	Scrub
<b>Total</b>		<b>8.1</b>	<b>10.0</b>	<b>6.6</b>	<b>0.92</b>	

<b>District level Residue-wise Data for Rupnagar; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	14.8	3.7	2.4	0.34	Dense Forest
Catechu	Bark	14.8	3.1	2.1	0.29	Dense Forest
Catechu	Branches	14.8	3.1	2.1	0.29	Dense Forest
Catechu	Twigs	14.8	3.1	2.1	0.29	Dense Forest
Babul	Leaves	14.8	2.6	1.7	0.24	Dense Forest
Catechu	Leaves	21.6	2.4	1.6	0.23	Open Forest
Others	Leaves	14.8	2.4	1.6	0.22	Dense Forest
Babul	Twigs	14.8	2.3	1.5	0.21	Dense Forest
Babul	Bark	14.8	2.3	1.5	0.21	Dense Forest
Babul	Branches	14.8	2.3	1.5	0.21	Dense Forest
Catechu	Twigs	21.6	2.1	1.4	0.19	Open Forest
Catechu	Branches	21.6	2.1	1.4	0.19	Open Forest
Catechu	Bark	21.6	2.1	1.4	0.19	Open Forest
Others	Twigs	14.8	2.0	1.3	0.19	Dense Forest
Others	Bark	14.8	2.0	1.3	0.19	Dense Forest
Others	Branches	14.8	2.0	1.3	0.19	Dense Forest
Eucalyptus	Leaves	14.8	2.0	1.3	0.18	Dense Forest
Babul	Leaves	21.6	1.8	1.2	0.16	Open Forest
Eucalyptus	Twigs	14.8	1.7	1.1	0.16	Dense Forest
Eucalyptus	Bark	14.8	1.7	1.1	0.16	Dense Forest
Eucalyptus	Branches	14.8	1.7	1.1	0.16	Dense Forest
Others	Leaves	21.6	1.6	1.1	0.15	Open Forest
Babul	Twigs	21.6	1.5	1.0	0.14	Open Forest
Babul	Branches	21.6	1.5	1.0	0.14	Open Forest
Babul	Bark	21.6	1.5	1.0	0.14	Open Forest
Others	Twigs	21.6	1.4	0.90	0.13	Open Forest
Others	Branches	21.6	1.4	0.90	0.13	Open Forest
Others	Bark	21.6	1.4	0.90	0.13	Open Forest
Eucalyptus	Leaves	21.6	1.3	0.87	0.12	Open Forest
Eucalyptus	Twigs	21.6	1.1	0.75	0.10	Open Forest
Eucalyptus	Branches	21.6	1.1	0.75	0.10	Open Forest
Eucalyptus	Bark	21.6	1.1	0.75	0.10	Open Forest
Shisham	Leaves	14.8	0.20	0.13	0.018	Dense Forest
Shisham	Twigs	14.8	0.17	0.11	0.016	Dense Forest
Shisham	Bark	14.8	0.17	0.11	0.016	Dense Forest
Shisham	Branches	14.8	0.17	0.11	0.016	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	4.5	0.14	0.091	0.013	Scrub
Shisham	Leaves	21.6	0.13	0.088	0.012	Open Forest
Catechu	Bark	4.5	0.12	0.078	0.011	Scrub
Catechu	Branches	4.5	0.12	0.078	0.011	Scrub
Catechu	Twigs	4.5	0.12	0.078	0.011	Scrub
Shisham	Twigs	21.6	0.11	0.075	0.011	Open Forest
Shisham	Branches	21.6	0.11	0.075	0.011	Open Forest
Shisham	Bark	21.6	0.11	0.075	0.011	Open Forest
White Mulberry	Leaves	14.8	0.11	0.073	0.010	Dense Forest
Babul	Leaves	4.5	0.100	0.066	0.0092	Scrub
White Mulberry	Twigs	14.8	0.094	0.062	0.0087	Dense Forest
White Mulberry	Bark	14.8	0.094	0.062	0.0087	Dense Forest
White Mulberry	Branches	14.8	0.094	0.062	0.0087	Dense Forest
Others	Leaves	4.5	0.090	0.059	0.0083	Scrub
Babul	Twigs	4.5	0.086	0.056	0.0079	Scrub
Babul	Bark	4.5	0.086	0.056	0.0079	Scrub
Babul	Branches	4.5	0.086	0.056	0.0079	Scrub
Others	Twigs	4.5	0.077	0.051	0.0071	Scrub
Others	Bark	4.5	0.077	0.051	0.0071	Scrub
Others	Branches	4.5	0.077	0.051	0.0071	Scrub
Eucalyptus	Leaves	4.5	0.074	0.049	0.0069	Scrub
White Mulberry	Leaves	21.6	0.074	0.049	0.0069	Open Forest
Eucalyptus	Twigs	4.5	0.064	0.042	0.0059	Scrub
Eucalyptus	Bark	4.5	0.064	0.042	0.0059	Scrub
Eucalyptus	Branches	4.5	0.064	0.042	0.0059	Scrub
White Mulberry	Twigs	21.6	0.063	0.042	0.0058	Open Forest
White Mulberry	Branches	21.6	0.063	0.042	0.0058	Open Forest
White Mulberry	Bark	21.6	0.063	0.042	0.0058	Open Forest
Chir Pine	Leaves	14.8	0.055	0.036	0.0051	Dense Forest
Chir Pine	Twigs	14.8	0.047	0.031	0.0044	Dense Forest
Chir Pine	Branches	14.8	0.047	0.031	0.0044	Dense Forest
Chir Pine	Bark	14.8	0.047	0.031	0.0044	Dense Forest
Chir Pine	Leaves	21.6	0.037	0.024	0.0034	Open Forest
Chir Pine	Twigs	21.6	0.032	0.021	0.0029	Open Forest
Chir Pine	Branches	21.6	0.032	0.021	0.0029	Open Forest
Chir Pine	Bark	21.6	0.032	0.021	0.0029	Open Forest
Shisham	Leaves	4.5	0.0075	0.0049	0.00069	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	4.5	0.0064	0.0042	0.00059	Scrub
Shisham	Bark	4.5	0.0064	0.0042	0.00059	Scrub
Shisham	Branches	4.5	0.0064	0.0042	0.00059	Scrub
White Mulberry	Leaves	4.5	0.0042	0.0028	0.00039	Scrub
White Mulberry	Twigs	4.5	0.0036	0.0023	0.00033	Scrub
White Mulberry	Bark	4.5	0.0036	0.0023	0.00033	Scrub
White Mulberry	Branches	4.5	0.0036	0.0023	0.00033	Scrub
Chir Pine	Leaves	4.5	0.0021	0.0014	0.00019	Scrub
Chir Pine	Twigs	4.5	0.0018	0.0012	0.00016	Scrub
Chir Pine	Branches	4.5	0.0018	0.0012	0.00016	Scrub
Chir Pine	Bark	4.5	0.0018	0.0012	0.00016	Scrub
<b>Total</b>		<b>40.9</b>	<b>67.2</b>	<b>44.3</b>	<b>6.2</b>	

<b>District level Residue-wise Data for Sangrur; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.27	0.041	0.027	0.0038	Open Forest
Catechu	Twigs	0.27	0.035	0.023	0.0032	Open Forest
Catechu	Bark	0.27	0.035	0.023	0.0032	Open Forest
Catechu	Branches	0.27	0.035	0.023	0.0032	Open Forest
Babul	Leaves	0.27	0.029	0.019	0.0027	Open Forest
Others	Leaves	0.27	0.027	0.018	0.0025	Open Forest
Babul	Twigs	0.27	0.025	0.017	0.0023	Open Forest
Babul	Bark	0.27	0.025	0.017	0.0023	Open Forest
Babul	Branches	0.27	0.025	0.017	0.0023	Open Forest
Others	Twigs	0.27	0.023	0.015	0.0021	Open Forest
Others	Bark	0.27	0.023	0.015	0.0021	Open Forest
Others	Branches	0.27	0.023	0.015	0.0021	Open Forest
Eucalyptus	Leaves	0.27	0.022	0.015	0.0020	Open Forest
Eucalyptus	Twigs	0.27	0.019	0.012	0.0017	Open Forest
Eucalyptus	Bark	0.27	0.019	0.012	0.0017	Open Forest
Eucalyptus	Branches	0.27	0.019	0.012	0.0017	Open Forest
Shisham	Leaves	0.27	0.0022	0.0015	0.00020	Open Forest
Shisham	Twigs	0.27	0.0019	0.0013	0.00018	Open Forest
Shisham	Bark	0.27	0.0019	0.0013	0.00018	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Branches	0.27	0.0019	0.0013	0.00018	Open Forest
White Mulberry	Leaves	0.27	0.0012	0.00082	0.00011	Open Forest
White Mulberry	Twigs	0.27	0.0011	0.00069	9.71E-05	Open Forest
White Mulberry	Bark	0.27	0.0011	0.00069	9.71E-05	Open Forest
White Mulberry	Branches	0.27	0.0011	0.00069	9.71E-05	Open Forest
Chir Pine	Leaves	0.27	0.00061	0.00041	5.68E-05	Open Forest
Chir Pine	Twigs	0.27	0.00053	0.00035	4.86E-05	Open Forest
Chir Pine	Bark	0.27	0.00053	0.00035	4.86E-05	Open Forest
Chir Pine	Branches	0.27	0.00053	0.00035	4.86E-05	Open Forest
<b>Total</b>		<b>0.27</b>	<b>0.44</b>	<b>0.29</b>	<b>0.041</b>	

## District Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Bathinda ; Biomass Class : Forest</b>				
Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Rampura Phul	1.1	2.3	1.5	0.21
<b>Total</b>		<b>1.1</b>	<b>2.3</b>	<b>1.5</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Biomass Class : Forest</b>				
Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Faridkot	1.7	1.7	1.1	0.16
<b>Total</b>		<b>1.7</b>	<b>1.7</b>	<b>1.1</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Dhar Kalan	17.2	14.6	9.6	1.3
Pathankot	3.2	2.6	1.7	0.24
<b>Total</b>		<b>20.3</b>	<b>17.2</b>	<b>11.3</b>

<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Hoshiarpur	26.8	62.1	41.0	5.7
Garhshankar	28.9	46.1	30.4	4.3
Mukerian	21.8	18.1	11.9	1.7
Dasua	6.9	12.6	8.3	1.2
<b>Total</b>		<b>84.4</b>	<b>138.8</b>	<b>91.6</b>

<b>DistrictLevel Taluk-wise Data for Jalandhar ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jalandhar-Ii	0.91	0.75	0.50	0.069
Jalandhar-I	0.090	0.074	0.049	0.0068
<b>Total</b>		<b>1.00</b>	<b>0.82</b>	<b>0.54</b>

<b>DistrictLevel Taluk-wise Data for Ludhiana ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Samrala	1.6	2.5	1.7	0.23
Ludhiana(East)	0.79	0.66	0.43	0.061
<b>Total</b>		<b>2.4</b>	<b>3.2</b>	<b>2.1</b>



<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Balachaur	17.9	41.5	27.4	3.8
<b>Total</b>		<b>17.9</b>	<b>41.5</b>	<b>27.4</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Patiala	1.5	4.5	3.0	0.42
Nabha	4.7	4.0	2.6	0.37
Rajpura	0.88	1.0	0.68	0.095
Samana	0.76	0.25	0.17	0.023
Dera Bassi	0.25	0.20	0.13	0.019
<b>Total</b>		<b>8.1</b>	<b>10.0</b>	<b>6.6</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Kharar	12.4	28.6	18.9	2.6
Rupnagar	12.5	27.2	17.9	2.5
Anandpur Sahib	16.1	11.4	7.5	1.1
<b>Total</b>		<b>40.9</b>	<b>67.2</b>	<b>44.3</b>

<b>DistrictLevel Taluk-wise Data for Sangrur ; Biomass Class : Forest</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sangrur	0.27	0.44	0.29	0.041
<b>Total</b>		<b>0.27</b>	<b>0.44</b>	<b>0.29</b>

## Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Rampura Phul ; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.96	0.15	0.098	0.014	Open Forest
Catechu	Twigs	0.96	0.13	0.084	0.012	Open Forest
Catechu	Bark	0.96	0.13	0.084	0.012	Open Forest
Catechu	Branches	0.96	0.13	0.084	0.012	Open Forest
Babul	Leaves	0.96	0.11	0.071	0.0099	Open Forest
Others	Leaves	0.96	0.096	0.064	0.0089	Open Forest
Babul	Twigs	0.96	0.092	0.061	0.0085	Open Forest
Babul	Bark	0.96	0.092	0.061	0.0085	Open Forest
Babul	Branches	0.96	0.092	0.061	0.0085	Open Forest
Others	Twigs	0.96	0.083	0.055	0.0076	Open Forest
Others	Bark	0.96	0.083	0.055	0.0076	Open Forest
Others	Branches	0.96	0.083	0.055	0.0076	Open Forest
Eucalyptus	Leaves	0.96	0.080	0.053	0.0074	Open Forest
Eucalyptus	Twigs	0.96	0.069	0.045	0.0063	Open Forest
Eucalyptus	Bark	0.96	0.069	0.045	0.0063	Open Forest
Eucalyptus	Branches	0.96	0.069	0.045	0.0063	Open Forest
Catechu	Leaves	0.15	0.063	0.042	0.0058	Dense Forest
Catechu	Twigs	0.15	0.054	0.036	0.0050	Dense Forest
Catechu	Bark	0.15	0.054	0.036	0.0050	Dense Forest
Catechu	Branches	0.15	0.054	0.036	0.0050	Dense Forest
Babul	Leaves	0.15	0.046	0.030	0.0042	Dense Forest
Others	Leaves	0.15	0.041	0.027	0.0038	Dense Forest
Babul	Twigs	0.15	0.039	0.026	0.0036	Dense Forest
Babul	Bark	0.15	0.039	0.026	0.0036	Dense Forest
Babul	Branches	0.15	0.039	0.026	0.0036	Dense Forest
Others	Bark	0.15	0.035	0.023	0.0033	Dense Forest
Others	Branches	0.15	0.035	0.023	0.0033	Dense Forest
Others	Twigs	0.15	0.035	0.023	0.0033	Dense Forest
Eucalyptus	Leaves	0.15	0.034	0.023	0.0032	Dense Forest
Eucalyptus	Twigs	0.15	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Bark	0.15	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Branches	0.15	0.029	0.019	0.0027	Dense Forest
Shisham	Leaves	0.96	0.0080	0.0053	0.00074	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	0.96	0.0069	0.0045	0.00064	Open Forest
Shisham	Bark	0.96	0.0069	0.0045	0.00064	Open Forest
Shisham	Branches	0.96	0.0069	0.0045	0.00064	Open Forest
White Mulberry	Leaves	0.96	0.0045	0.0030	0.00041	Open Forest
White Mulberry	Twigs	0.96	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Bark	0.96	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Branches	0.96	0.0038	0.0025	0.00035	Open Forest
Shisham	Leaves	0.15	0.0034	0.0023	0.00032	Dense Forest
Shisham	Twigs	0.15	0.0029	0.0019	0.00027	Dense Forest
Shisham	Bark	0.15	0.0029	0.0019	0.00027	Dense Forest
Shisham	Branches	0.15	0.0029	0.0019	0.00027	Dense Forest
Chir Pine	Leaves	0.96	0.0022	0.0015	0.00021	Open Forest
White Mulberry	Leaves	0.15	0.0019	0.0013	0.00018	Dense Forest
Chir Pine	Twigs	0.96	0.0019	0.0013	0.00018	Open Forest
Chir Pine	Bark	0.96	0.0019	0.0013	0.00018	Open Forest
Chir Pine	Branches	0.96	0.0019	0.0013	0.00018	Open Forest
White Mulberry	Twigs	0.15	0.0016	0.0011	0.00015	Dense Forest
White Mulberry	Bark	0.15	0.0016	0.0011	0.00015	Dense Forest
White Mulberry	Branches	0.15	0.0016	0.0011	0.00015	Dense Forest
Chir Pine	Leaves	0.15	0.00096	0.00063	8.83E-05	Dense Forest
Chir Pine	Twigs	0.15	0.00082	0.00054	7.57E-05	Dense Forest
Chir Pine	Bark	0.15	0.00082	0.00054	7.57E-05	Dense Forest
Chir Pine	Branches	0.15	0.00082	0.00054	7.57E-05	Dense Forest
<b>Total</b>		<b>1.1</b>	<b>2.3</b>	<b>1.5</b>	<b>0.21</b>	

<b>Taluk level Residue-wise Data for Faridkot ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	1.3	0.099	0.065	0.0091	Open Forest
Catechu	Twigs	1.3	0.085	0.056	0.0078	Open Forest
Catechu	Bark	1.3	0.085	0.056	0.0078	Open Forest
Catechu	Branches	1.3	0.085	0.056	0.0078	Open Forest
Babul	Leaves	1.3	0.072	0.047	0.0066	Open Forest
Others	Leaves	1.3	0.064	0.042	0.0059	Open Forest
Babul	Twigs	1.3	0.061	0.040	0.0057	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Bark	1.3	0.061	0.040	0.0057	Open Forest
Babul	Branches	1.3	0.061	0.040	0.0057	Open Forest
Others	Twigs	1.3	0.055	0.036	0.0051	Open Forest
Others	Bark	1.3	0.055	0.036	0.0051	Open Forest
Others	Branches	1.3	0.055	0.036	0.0051	Open Forest
Catechu	Leaves	0.25	0.053	0.035	0.0049	Dense Forest
Eucalyptus	Leaves	1.3	0.053	0.035	0.0049	Open Forest
Catechu	Twigs	0.25	0.046	0.030	0.0042	Dense Forest
Catechu	Bark	0.25	0.046	0.030	0.0042	Dense Forest
Catechu	Branches	0.25	0.046	0.030	0.0042	Dense Forest
Eucalyptus	Twigs	1.3	0.046	0.030	0.0042	Open Forest
Eucalyptus	Bark	1.3	0.046	0.030	0.0042	Open Forest
Eucalyptus	Branches	1.3	0.046	0.030	0.0042	Open Forest
Babul	Leaves	0.25	0.039	0.026	0.0036	Dense Forest
Others	Leaves	0.25	0.035	0.023	0.0032	Dense Forest
Babul	Twigs	0.25	0.033	0.022	0.0031	Dense Forest
Babul	Bark	0.25	0.033	0.022	0.0031	Dense Forest
Babul	Branches	0.25	0.033	0.022	0.0031	Dense Forest
Others	Twigs	0.25	0.030	0.020	0.0028	Dense Forest
Others	Bark	0.25	0.030	0.020	0.0028	Dense Forest
Others	Branches	0.25	0.030	0.020	0.0028	Dense Forest
Eucalyptus	Leaves	0.25	0.029	0.019	0.0027	Dense Forest
Eucalyptus	Twigs	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Bark	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Branches	0.25	0.025	0.016	0.0023	Dense Forest
Shisham	Leaves	1.3	0.0054	0.0035	0.00050	Open Forest
Catechu	Leaves	0.17	0.0052	0.0034	0.00048	Scrub
Shisham	Twigs	1.3	0.0046	0.0030	0.00042	Open Forest
Shisham	Bark	1.3	0.0046	0.0030	0.00042	Open Forest
Shisham	Branches	1.3	0.0046	0.0030	0.00042	Open Forest
Catechu	Twigs	0.17	0.0044	0.0029	0.00041	Scrub
Catechu	Bark	0.17	0.0044	0.0029	0.00041	Scrub
Catechu	Branches	0.17	0.0044	0.0029	0.00041	Scrub
Babul	Leaves	0.17	0.0037	0.0025	0.00035	Scrub
Others	Leaves	0.17	0.0034	0.0022	0.00031	Scrub
Babul	Twigs	0.17	0.0032	0.0021	0.00030	Scrub
Babul	Bark	0.17	0.0032	0.0021	0.00030	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Branches	0.17	0.0032	0.0021	0.00030	Scrub
White Mulberry	Leaves	1.3	0.0030	0.0020	0.00028	Open Forest
Shisham	Leaves	0.25	0.0029	0.0019	0.00027	Dense Forest
Others	Twigs	0.17	0.0029	0.0019	0.00027	Scrub
Others	Bark	0.17	0.0029	0.0019	0.00027	Scrub
Others	Branches	0.17	0.0029	0.0019	0.00027	Scrub
Eucalyptus	Leaves	0.17	0.0028	0.0018	0.00026	Scrub
White Mulberry	Twigs	1.3	0.0025	0.0017	0.00024	Open Forest
White Mulberry	Bark	1.3	0.0025	0.0017	0.00024	Open Forest
White Mulberry	Branches	1.3	0.0025	0.0017	0.00024	Open Forest
Shisham	Bark	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Branches	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Twigs	0.25	0.0025	0.0016	0.00023	Dense Forest
Eucalyptus	Twigs	0.17	0.0024	0.0016	0.00022	Scrub
Eucalyptus	Bark	0.17	0.0024	0.0016	0.00022	Scrub
Eucalyptus	Branches	0.17	0.0024	0.0016	0.00022	Scrub
White Mulberry	Leaves	0.25	0.0016	0.0011	0.00015	Dense Forest
Chir Pine	Leaves	1.3	0.0015	0.00098	0.00014	Open Forest
White Mulberry	Twigs	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Bark	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Branches	0.25	0.0014	0.00091	0.00013	Dense Forest
Chir Pine	Twigs	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Bark	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Branches	1.3	0.0013	0.00084	0.00012	Open Forest
Chir Pine	Leaves	0.25	0.00081	0.00053	7.45E-05	Dense Forest
Chir Pine	Twigs	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Chir Pine	Bark	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Chir Pine	Branches	0.25	0.00069	0.00046	6.39E-05	Dense Forest
Shisham	Leaves	0.17	0.00028	0.00019	2.60E-05	Scrub
Shisham	Twigs	0.17	0.00024	0.00016	2.23E-05	Scrub
Shisham	Bark	0.17	0.00024	0.00016	2.23E-05	Scrub
Shisham	Branches	0.17	0.00024	0.00016	2.23E-05	Scrub
White Mulberry	Leaves	0.17	0.00016	0.00010	1.45E-05	Scrub
White Mulberry	Twigs	0.17	0.00013	8.81E-05	1.23E-05	Scrub
White Mulberry	Bark	0.17	0.00013	8.81E-05	1.23E-05	Scrub
White Mulberry	Branches	0.17	0.00013	8.81E-05	1.23E-05	Scrub
Chir Pine	Leaves	0.17	7.81E-05	5.15E-05	7.21E-06	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Chir Pine	Twigs	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
Chir Pine	Bark	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
Chir Pine	Branches	0.17	6.69E-05	4.42E-05	6.18E-06	Scrub
<b>Total</b>		<b>1.7</b>	<b>1.7</b>	<b>1.1</b>	<b>0.16</b>	

<b>Taluk level Residue-wise Data for Dhar Kalan ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	16.0	1.2	0.81	0.11	Open Forest
Catechu	Twigs	16.0	1.1	0.69	0.097	Open Forest
Catechu	Bark	16.0	1.1	0.69	0.097	Open Forest
Catechu	Branches	16.0	1.1	0.69	0.097	Open Forest
Babul	Leaves	16.0	0.89	0.59	0.082	Open Forest
Others	Leaves	16.0	0.80	0.53	0.074	Open Forest
Babul	Twigs	16.0	0.76	0.50	0.070	Open Forest
Babul	Bark	16.0	0.76	0.50	0.070	Open Forest
Babul	Branches	16.0	0.76	0.50	0.070	Open Forest
Others	Twigs	16.0	0.69	0.45	0.063	Open Forest
Others	Bark	16.0	0.69	0.45	0.063	Open Forest
Others	Branches	16.0	0.69	0.45	0.063	Open Forest
Eucalyptus	Leaves	16.0	0.66	0.44	0.061	Open Forest
Eucalyptus	Twigs	16.0	0.57	0.37	0.052	Open Forest
Eucalyptus	Bark	16.0	0.57	0.37	0.052	Open Forest
Eucalyptus	Branches	16.0	0.57	0.37	0.052	Open Forest
Catechu	Leaves	0.48	0.10	0.068	0.0096	Dense Forest
Catechu	Twigs	0.48	0.089	0.059	0.0082	Dense Forest
Catechu	Bark	0.48	0.089	0.059	0.0082	Dense Forest
Catechu	Branches	0.48	0.089	0.059	0.0082	Dense Forest
Babul	Leaves	0.48	0.075	0.050	0.0069	Dense Forest
Others	Leaves	0.48	0.068	0.045	0.0063	Dense Forest
Shisham	Leaves	16.0	0.067	0.044	0.0062	Open Forest
Babul	Twigs	0.48	0.064	0.043	0.0060	Dense Forest
Babul	Bark	0.48	0.064	0.043	0.0060	Dense Forest
Babul	Branches	0.48	0.064	0.043	0.0060	Dense Forest
Others	Twigs	0.48	0.058	0.038	0.0054	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Others	Bark	0.48	0.058	0.038	0.0054	Dense Forest
Others	Branches	0.48	0.058	0.038	0.0054	Dense Forest
Shisham	Twigs	16.0	0.057	0.038	0.0053	Open Forest
Shisham	Bark	16.0	0.057	0.038	0.0053	Open Forest
Shisham	Branches	16.0	0.057	0.038	0.0053	Open Forest
Eucalyptus	Leaves	0.48	0.056	0.037	0.0052	Dense Forest
Eucalyptus	Twigs	0.48	0.048	0.032	0.0044	Dense Forest
Eucalyptus	Bark	0.48	0.048	0.032	0.0044	Dense Forest
Eucalyptus	Branches	0.48	0.048	0.032	0.0044	Dense Forest
White Mulberry	Leaves	16.0	0.037	0.025	0.0034	Open Forest
White Mulberry	Twigs	16.0	0.032	0.021	0.0029	Open Forest
White Mulberry	Bark	16.0	0.032	0.021	0.0029	Open Forest
White Mulberry	Branches	16.0	0.032	0.021	0.0029	Open Forest
Catechu	Leaves	0.71	0.022	0.014	0.0020	Scrub
Catechu	Twigs	0.71	0.019	0.012	0.0017	Scrub
Catechu	Bark	0.71	0.019	0.012	0.0017	Scrub
Catechu	Branches	0.71	0.019	0.012	0.0017	Scrub
Chir Pine	Leaves	16.0	0.019	0.012	0.0017	Open Forest
Babul	Leaves	0.71	0.016	0.010	0.0015	Scrub
Chir Pine	Twigs	16.0	0.016	0.010	0.0015	Open Forest
Chir Pine	Bark	16.0	0.016	0.010	0.0015	Open Forest
Chir Pine	Branches	16.0	0.016	0.010	0.0015	Open Forest
Others	Leaves	0.71	0.014	0.0094	0.0013	Scrub
Babul	Twigs	0.71	0.014	0.0090	0.0013	Scrub
Babul	Bark	0.71	0.014	0.0090	0.0013	Scrub
Babul	Branches	0.71	0.014	0.0090	0.0013	Scrub
Others	Twigs	0.71	0.012	0.0081	0.0011	Scrub
Others	Bark	0.71	0.012	0.0081	0.0011	Scrub
Others	Branches	0.71	0.012	0.0081	0.0011	Scrub
Eucalyptus	Leaves	0.71	0.012	0.0078	0.0011	Scrub
Eucalyptus	Twigs	0.71	0.010	0.0067	0.00094	Scrub
Eucalyptus	Bark	0.71	0.010	0.0067	0.00094	Scrub
Eucalyptus	Branches	0.71	0.010	0.0067	0.00094	Scrub
Shisham	Leaves	0.48	0.0056	0.0037	0.00052	Dense Forest
Shisham	Twigs	0.48	0.0048	0.0032	0.00045	Dense Forest
Shisham	Bark	0.48	0.0048	0.0032	0.00045	Dense Forest
Shisham	Branches	0.48	0.0048	0.0032	0.00045	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Leaves	0.48	0.0031	0.0021	0.00029	Dense Forest
White Mulberry	Twigs	0.48	0.0027	0.0018	0.00025	Dense Forest
White Mulberry	Bark	0.48	0.0027	0.0018	0.00025	Dense Forest
White Mulberry	Branches	0.48	0.0027	0.0018	0.00025	Dense Forest
Chir Pine	Leaves	0.48	0.0016	0.0010	0.00014	Dense Forest
Chir Pine	Twigs	0.48	0.0013	0.00089	0.00012	Dense Forest
Chir Pine	Bark	0.48	0.0013	0.00089	0.00012	Dense Forest
Chir Pine	Branches	0.48	0.0013	0.00089	0.00012	Dense Forest
Shisham	Leaves	0.71	0.0012	0.00079	0.00011	Scrub
Shisham	Twigs	0.71	0.0010	0.00067	9.44E-05	Scrub
Shisham	Bark	0.71	0.0010	0.00067	9.44E-05	Scrub
Shisham	Branches	0.71	0.0010	0.00067	9.44E-05	Scrub
White Mulberry	Leaves	0.71	0.00067	0.00044	6.15E-05	Scrub
White Mulberry	Twigs	0.71	0.00057	0.00037	5.23E-05	Scrub
White Mulberry	Bark	0.71	0.00057	0.00037	5.23E-05	Scrub
White Mulberry	Branches	0.71	0.00057	0.00037	5.23E-05	Scrub
Chir Pine	Leaves	0.71	0.00033	0.00022	3.06E-05	Scrub
Chir Pine	Twigs	0.71	0.00028	0.00019	2.62E-05	Scrub
Chir Pine	Bark	0.71	0.00028	0.00019	2.62E-05	Scrub
Chir Pine	Branches	0.71	0.00028	0.00019	2.62E-05	Scrub
<b>Total</b>		<b>17.2</b>	<b>14.6</b>	<b>9.6</b>	<b>1.3</b>	

<b>Taluk level Residue-wise Data for Pathankot ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	3.2	0.24	0.16	0.022	Open Forest
Catechu	Twigs	3.2	0.21	0.14	0.019	Open Forest
Catechu	Bark	3.2	0.21	0.14	0.019	Open Forest
Catechu	Branches	3.2	0.21	0.14	0.019	Open Forest
Babul	Leaves	3.2	0.18	0.12	0.016	Open Forest
Others	Leaves	3.2	0.16	0.10	0.015	Open Forest
Babul	Twigs	3.2	0.15	0.099	0.014	Open Forest
Babul	Bark	3.2	0.15	0.099	0.014	Open Forest
Babul	Branches	3.2	0.15	0.099	0.014	Open Forest
Others	Twigs	3.2	0.14	0.089	0.013	Open Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Others	Bark	3.2	0.14	0.089	0.013	Open Forest
Others	Branches	3.2	0.14	0.089	0.013	Open Forest
Eucalyptus	Leaves	3.2	0.13	0.086	0.012	Open Forest
Eucalyptus	Twigs	3.2	0.11	0.074	0.010	Open Forest
Eucalyptus	Bark	3.2	0.11	0.074	0.010	Open Forest
Eucalyptus	Branches	3.2	0.11	0.074	0.010	Open Forest
Shisham	Leaves	3.2	0.013	0.0087	0.0012	Open Forest
Shisham	Twigs	3.2	0.011	0.0074	0.0010	Open Forest
Shisham	Bark	3.2	0.011	0.0074	0.0010	Open Forest
Shisham	Branches	3.2	0.011	0.0074	0.0010	Open Forest
White Mulberry	Leaves	3.2	0.0073	0.0048	0.00068	Open Forest
White Mulberry	Twigs	3.2	0.0063	0.0041	0.00058	Open Forest
White Mulberry	Bark	3.2	0.0063	0.0041	0.00058	Open Forest
White Mulberry	Branches	3.2	0.0063	0.0041	0.00058	Open Forest
Chir Pine	Leaves	3.2	0.0037	0.0024	0.00034	Open Forest
Chir Pine	Twigs	3.2	0.0031	0.0021	0.00029	Open Forest
Chir Pine	Bark	3.2	0.0031	0.0021	0.00029	Open Forest
Chir Pine	Branches	3.2	0.0031	0.0021	0.00029	Open Forest
<b>Total</b>		<b>3.2</b>	<b>2.6</b>	<b>1.7</b>	<b>0.24</b>	

<b>Taluk level Residue-wise Data for Dasua ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	4.6	1.00	0.66	0.092	Dense Forest
Catechu	Twigs	4.6	0.85	0.56	0.079	Dense Forest
Catechu	Bark	4.6	0.85	0.56	0.079	Dense Forest
Catechu	Branches	4.6	0.85	0.56	0.079	Dense Forest
Babul	Leaves	4.6	0.72	0.48	0.067	Dense Forest
Others	Leaves	4.6	0.65	0.43	0.060	Dense Forest
Babul	Twigs	4.6	0.62	0.41	0.057	Dense Forest
Babul	Bark	4.6	0.62	0.41	0.057	Dense Forest
Babul	Branches	4.6	0.62	0.41	0.057	Dense Forest
Others	Twigs	4.6	0.56	0.37	0.052	Dense Forest
Others	Bark	4.6	0.56	0.37	0.052	Dense Forest
Others	Branches	4.6	0.56	0.37	0.052	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Eucalyptus	Leaves	4.6	0.54	0.36	0.050	Dense Forest
Eucalyptus	Twigs	4.6	0.46	0.30	0.043	Dense Forest
Eucalyptus	Bark	4.6	0.46	0.30	0.043	Dense Forest
Eucalyptus	Branches	4.6	0.46	0.30	0.043	Dense Forest
Catechu	Leaves	2.2	0.17	0.11	0.016	Open Forest
Catechu	Twigs	2.2	0.15	0.096	0.013	Open Forest
Catechu	Bark	2.2	0.15	0.096	0.013	Open Forest
Catechu	Branches	2.2	0.15	0.096	0.013	Open Forest
Babul	Leaves	2.2	0.12	0.081	0.011	Open Forest
Others	Leaves	2.2	0.11	0.073	0.010	Open Forest
Babul	Twigs	2.2	0.11	0.070	0.0098	Open Forest
Babul	Bark	2.2	0.11	0.070	0.0098	Open Forest
Babul	Branches	2.2	0.11	0.070	0.0098	Open Forest
Others	Twigs	2.2	0.095	0.063	0.0088	Open Forest
Others	Bark	2.2	0.095	0.063	0.0088	Open Forest
Others	Branches	2.2	0.095	0.063	0.0088	Open Forest
Eucalyptus	Leaves	2.2	0.092	0.061	0.0085	Open Forest
Eucalyptus	Twigs	2.2	0.079	0.052	0.0073	Open Forest
Eucalyptus	Bark	2.2	0.079	0.052	0.0073	Open Forest
Eucalyptus	Branches	2.2	0.079	0.052	0.0073	Open Forest
Shisham	Leaves	4.6	0.054	0.036	0.0050	Dense Forest
Shisham	Twigs	4.6	0.046	0.031	0.0043	Dense Forest
Shisham	Bark	4.6	0.046	0.031	0.0043	Dense Forest
Shisham	Branches	4.6	0.046	0.031	0.0043	Dense Forest
White Mulberry	Leaves	4.6	0.030	0.020	0.0028	Dense Forest
White Mulberry	Twigs	4.6	0.026	0.017	0.0024	Dense Forest
White Mulberry	Bark	4.6	0.026	0.017	0.0024	Dense Forest
White Mulberry	Branches	4.6	0.026	0.017	0.0024	Dense Forest
Chir Pine	Leaves	4.6	0.015	0.0099	0.0014	Dense Forest
Chir Pine	Twigs	4.6	0.013	0.0085	0.0012	Dense Forest
Chir Pine	Bark	4.6	0.013	0.0085	0.0012	Dense Forest
Chir Pine	Branches	4.6	0.013	0.0085	0.0012	Dense Forest
Shisham	Leaves	2.2	0.0092	0.0061	0.00085	Open Forest
Shisham	Twigs	2.2	0.0079	0.0052	0.00073	Open Forest
Shisham	Bark	2.2	0.0079	0.0052	0.00073	Open Forest
Shisham	Branches	2.2	0.0079	0.0052	0.00073	Open Forest
White Mulberry	Leaves	2.2	0.0052	0.0034	0.00048	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Twigs	2.2	0.0044	0.0029	0.00041	Open Forest
White Mulberry	Bark	2.2	0.0044	0.0029	0.00041	Open Forest
White Mulberry	Branches	2.2	0.0044	0.0029	0.00041	Open Forest
Chir Pine	Leaves	2.2	0.0026	0.0017	0.00024	Open Forest
Chir Pine	Twigs	2.2	0.0022	0.0015	0.00020	Open Forest
Chir Pine	Bark	2.2	0.0022	0.0015	0.00020	Open Forest
Chir Pine	Branches	2.2	0.0022	0.0015	0.00020	Open Forest
<b>Total</b>		<b>6.9</b>	<b>12.6</b>	<b>8.3</b>	<b>1.2</b>	

<b>Taluk level Residue-wise Data for Garhshankar ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	26.1	4.0	2.6	0.37	Open Forest
Catechu	Twigs	26.1	3.4	2.3	0.32	Open Forest
Catechu	Bark	26.1	3.4	2.3	0.32	Open Forest
Catechu	Branches	26.1	3.4	2.3	0.32	Open Forest
Babul	Leaves	26.1	2.9	1.9	0.27	Open Forest
Others	Leaves	26.1	2.6	1.7	0.24	Open Forest
Babul	Twigs	26.1	2.5	1.6	0.23	Open Forest
Babul	Bark	26.1	2.5	1.6	0.23	Open Forest
Babul	Branches	26.1	2.5	1.6	0.23	Open Forest
Others	Twigs	26.1	2.2	1.5	0.21	Open Forest
Others	Bark	26.1	2.2	1.5	0.21	Open Forest
Others	Branches	26.1	2.2	1.5	0.21	Open Forest
Eucalyptus	Leaves	26.1	2.2	1.4	0.20	Open Forest
Eucalyptus	Twigs	26.1	1.9	1.2	0.17	Open Forest
Eucalyptus	Bark	26.1	1.9	1.2	0.17	Open Forest
Eucalyptus	Branches	26.1	1.9	1.2	0.17	Open Forest
Shisham	Leaves	26.1	0.22	0.14	0.020	Open Forest
Shisham	Twigs	26.1	0.19	0.12	0.017	Open Forest
Shisham	Bark	26.1	0.19	0.12	0.017	Open Forest
Shisham	Branches	26.1	0.19	0.12	0.017	Open Forest
Catechu	Leaves	2.5	0.15	0.10	0.014	Scrub
Catechu	Twigs	2.5	0.13	0.087	0.012	Scrub
Catechu	Bark	2.5	0.13	0.087	0.012	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Branches	2.5	0.13	0.087	0.012	Scrub
White Mulberry	Leaves	26.1	0.12	0.080	0.011	Open Forest
Catechu	Leaves	0.27	0.12	0.078	0.011	Dense Forest
Babul	Leaves	2.5	0.11	0.074	0.010	Scrub
White Mulberry	Twigs	26.1	0.10	0.068	0.0096	Open Forest
White Mulberry	Bark	26.1	0.10	0.068	0.0096	Open Forest
White Mulberry	Branches	26.1	0.10	0.068	0.0096	Open Forest
Catechu	Twigs	0.27	0.10	0.067	0.0093	Dense Forest
Catechu	Bark	0.27	0.10	0.067	0.0093	Dense Forest
Catechu	Branches	0.27	0.10	0.067	0.0093	Dense Forest
Others	Leaves	2.5	0.10	0.066	0.0093	Scrub
Babul	Twigs	2.5	0.096	0.063	0.0089	Scrub
Babul	Bark	2.5	0.096	0.063	0.0089	Scrub
Babul	Branches	2.5	0.096	0.063	0.0089	Scrub
Others	Twigs	2.5	0.086	0.057	0.0080	Scrub
Others	Bark	2.5	0.086	0.057	0.0080	Scrub
Others	Branches	2.5	0.086	0.057	0.0080	Scrub
Babul	Leaves	0.27	0.085	0.056	0.0079	Dense Forest
Eucalyptus	Leaves	2.5	0.083	0.055	0.0077	Scrub
Others	Leaves	0.27	0.077	0.051	0.0071	Dense Forest
Babul	Twigs	0.27	0.073	0.048	0.0068	Dense Forest
Babul	Bark	0.27	0.073	0.048	0.0068	Dense Forest
Babul	Branches	0.27	0.073	0.048	0.0068	Dense Forest
Eucalyptus	Twigs	2.5	0.071	0.047	0.0066	Scrub
Eucalyptus	Bark	2.5	0.071	0.047	0.0066	Scrub
Eucalyptus	Branches	2.5	0.071	0.047	0.0066	Scrub
Others	Bark	0.27	0.066	0.043	0.0061	Dense Forest
Others	Branches	0.27	0.066	0.043	0.0061	Dense Forest
Others	Twigs	0.27	0.066	0.043	0.0061	Dense Forest
Eucalyptus	Leaves	0.27	0.064	0.042	0.0059	Dense Forest
Chir Pine	Leaves	26.1	0.060	0.040	0.0056	Open Forest
Eucalyptus	Twigs	0.27	0.055	0.036	0.0050	Dense Forest
Eucalyptus	Bark	0.27	0.055	0.036	0.0050	Dense Forest
Eucalyptus	Branches	0.27	0.055	0.036	0.0050	Dense Forest
Chir Pine	Bark	26.1	0.052	0.034	0.0048	Open Forest
Chir Pine	Branches	26.1	0.052	0.034	0.0048	Open Forest
Chir Pine	Twigs	26.1	0.052	0.034	0.0048	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Leaves	2.5	0.0084	0.0055	0.00077	Scrub
Shisham	Twigs	2.5	0.0072	0.0047	0.00066	Scrub
Shisham	Bark	2.5	0.0072	0.0047	0.00066	Scrub
Shisham	Branches	2.5	0.0072	0.0047	0.00066	Scrub
Shisham	Leaves	0.27	0.0064	0.0042	0.00059	Dense Forest
Shisham	Twigs	0.27	0.0055	0.0036	0.00051	Dense Forest
Shisham	Bark	0.27	0.0055	0.0036	0.00051	Dense Forest
Shisham	Branches	0.27	0.0055	0.0036	0.00051	Dense Forest
White Mulberry	Leaves	2.5	0.0047	0.0031	0.00043	Scrub
White Mulberry	Twigs	2.5	0.0040	0.0026	0.00037	Scrub
White Mulberry	Bark	2.5	0.0040	0.0026	0.00037	Scrub
White Mulberry	Branches	2.5	0.0040	0.0026	0.00037	Scrub
White Mulberry	Leaves	0.27	0.0036	0.0024	0.00033	Dense Forest
White Mulberry	Twigs	0.27	0.0030	0.0020	0.00028	Dense Forest
White Mulberry	Bark	0.27	0.0030	0.0020	0.00028	Dense Forest
White Mulberry	Branches	0.27	0.0030	0.0020	0.00028	Dense Forest
Chir Pine	Leaves	2.5	0.0023	0.0015	0.00022	Scrub
Chir Pine	Twigs	2.5	0.0020	0.0013	0.00018	Scrub
Chir Pine	Bark	2.5	0.0020	0.0013	0.00018	Scrub
Chir Pine	Branches	2.5	0.0020	0.0013	0.00018	Scrub
Chir Pine	Leaves	0.27	0.0018	0.0012	0.00016	Dense Forest
Chir Pine	Twigs	0.27	0.0015	0.0010	0.00014	Dense Forest
Chir Pine	Bark	0.27	0.0015	0.0010	0.00014	Dense Forest
Chir Pine	Branches	0.27	0.0015	0.0010	0.00014	Dense Forest
<b>Total</b>		<b>28.9</b>	<b>46.1</b>	<b>30.4</b>	<b>4.3</b>	

<b>Taluk level Residue-wise Data for Hoshiarpur ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	26.8	5.8	3.8	0.53	Dense Forest
Catechu	Twigs	26.8	4.9	3.3	0.46	Dense Forest
Catechu	Bark	26.8	4.9	3.3	0.46	Dense Forest
Catechu	Branches	26.8	4.9	3.3	0.46	Dense Forest
Babul	Leaves	26.8	4.2	2.8	0.39	Dense Forest
Others	Leaves	26.8	3.8	2.5	0.35	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Twigs	26.8	3.6	2.4	0.33	Dense Forest
Babul	Bark	26.8	3.6	2.4	0.33	Dense Forest
Babul	Branches	26.8	3.6	2.4	0.33	Dense Forest
Others	Twigs	26.8	3.2	2.1	0.30	Dense Forest
Others	Bark	26.8	3.2	2.1	0.30	Dense Forest
Others	Branches	26.8	3.2	2.1	0.30	Dense Forest
Eucalyptus	Leaves	26.8	3.1	2.1	0.29	Dense Forest
Eucalyptus	Twigs	26.8	2.7	1.8	0.25	Dense Forest
Eucalyptus	Bark	26.8	2.7	1.8	0.25	Dense Forest
Eucalyptus	Branches	26.8	2.7	1.8	0.25	Dense Forest
Shisham	Leaves	26.8	0.31	0.21	0.029	Dense Forest
Shisham	Twigs	26.8	0.27	0.18	0.025	Dense Forest
Shisham	Bark	26.8	0.27	0.18	0.025	Dense Forest
Shisham	Branches	26.8	0.27	0.18	0.025	Dense Forest
White Mulberry	Leaves	26.8	0.17	0.12	0.016	Dense Forest
White Mulberry	Twigs	26.8	0.15	0.098	0.014	Dense Forest
White Mulberry	Bark	26.8	0.15	0.098	0.014	Dense Forest
White Mulberry	Branches	26.8	0.15	0.098	0.014	Dense Forest
Chir Pine	Leaves	26.8	0.087	0.057	0.0080	Dense Forest
Chir Pine	Twigs	26.8	0.075	0.049	0.0069	Dense Forest
Chir Pine	Bark	26.8	0.075	0.049	0.0069	Dense Forest
Chir Pine	Branches	26.8	0.075	0.049	0.0069	Dense Forest
Catechu	Leaves	0.0063	0.00049	0.00032	4.49E-05	Open Forest
Catechu	Twigs	0.0063	0.00042	0.00027	3.85E-05	Open Forest
Catechu	Bark	0.0063	0.00042	0.00027	3.85E-05	Open Forest
Catechu	Branches	0.0063	0.00042	0.00027	3.85E-05	Open Forest
Babul	Leaves	0.0063	0.00035	0.00023	3.26E-05	Open Forest
Others	Leaves	0.0063	0.00032	0.00021	2.93E-05	Open Forest
Babul	Twigs	0.0063	0.00030	0.00020	2.79E-05	Open Forest
Babul	Bark	0.0063	0.00030	0.00020	2.79E-05	Open Forest
Babul	Branches	0.0063	0.00030	0.00020	2.79E-05	Open Forest
Others	Twigs	0.0063	0.00027	0.00018	2.51E-05	Open Forest
Others	Bark	0.0063	0.00027	0.00018	2.51E-05	Open Forest
Others	Branches	0.0063	0.00027	0.00018	2.51E-05	Open Forest
Eucalyptus	Leaves	0.0063	0.00026	0.00017	2.43E-05	Open Forest
Eucalyptus	Twigs	0.0063	0.00023	0.00015	2.08E-05	Open Forest
Eucalyptus	Bark	0.0063	0.00023	0.00015	2.08E-05	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Eucalyptus	Branches	0.0063	0.00023	0.00015	2.08E-05	Open Forest
Shisham	Leaves	0.0063	2.64E-05	1.74E-05	2.44E-06	Open Forest
Shisham	Twigs	0.0063	2.27E-05	1.50E-05	2.09E-06	Open Forest
Shisham	Bark	0.0063	2.27E-05	1.50E-05	2.09E-06	Open Forest
Shisham	Branches	0.0063	2.27E-05	1.50E-05	2.09E-06	Open Forest
White Mulberry	Leaves	0.0063	1.48E-05	9.74E-06	1.36E-06	Open Forest
White Mulberry	Twigs	0.0063	1.26E-05	8.29E-06	1.16E-06	Open Forest
White Mulberry	Bark	0.0063	1.26E-05	8.29E-06	1.16E-06	Open Forest
White Mulberry	Branches	0.0063	1.26E-05	8.29E-06	1.16E-06	Open Forest
Chir Pine	Leaves	0.0063	7.34E-06	4.85E-06	6.78E-07	Open Forest
Chir Pine	Twigs	0.0063	6.29E-06	4.15E-06	5.82E-07	Open Forest
Chir Pine	Bark	0.0063	6.29E-06	4.15E-06	5.82E-07	Open Forest
Chir Pine	Branches	0.0063	6.29E-06	4.15E-06	5.82E-07	Open Forest
<b>Total</b>		<b>26.8</b>	<b>62.1</b>	<b>41.0</b>	<b>5.7</b>	

<b>Taluk level Residue-wise Data for Mukerian ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	21.7	1.7	1.1	0.15	Open Forest
Catechu	Twigs	21.7	1.4	0.94	0.13	Open Forest
Catechu	Bark	21.7	1.4	0.94	0.13	Open Forest
Catechu	Branches	21.7	1.4	0.94	0.13	Open Forest
Babul	Leaves	21.7	1.2	0.80	0.11	Open Forest
Others	Leaves	21.7	1.1	0.72	0.10	Open Forest
Babul	Twigs	21.7	1.0	0.68	0.096	Open Forest
Babul	Bark	21.7	1.0	0.68	0.096	Open Forest
Babul	Branches	21.7	1.0	0.68	0.096	Open Forest
Others	Twigs	21.7	0.93	0.61	0.086	Open Forest
Others	Bark	21.7	0.93	0.61	0.086	Open Forest
Others	Branches	21.7	0.93	0.61	0.086	Open Forest
Eucalyptus	Leaves	21.7	0.90	0.59	0.083	Open Forest
Eucalyptus	Twigs	21.7	0.77	0.51	0.071	Open Forest
Eucalyptus	Bark	21.7	0.77	0.51	0.071	Open Forest
Eucalyptus	Branches	21.7	0.77	0.51	0.071	Open Forest
Shisham	Leaves	21.7	0.090	0.060	0.0084	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	21.7	0.078	0.051	0.0072	Open Forest
Shisham	Bark	21.7	0.078	0.051	0.0072	Open Forest
Shisham	Branches	21.7	0.078	0.051	0.0072	Open Forest
White Mulberry	Leaves	21.7	0.051	0.033	0.0047	Open Forest
White Mulberry	Twigs	21.7	0.043	0.028	0.0040	Open Forest
White Mulberry	Bark	21.7	0.043	0.028	0.0040	Open Forest
White Mulberry	Branches	21.7	0.043	0.028	0.0040	Open Forest
Chir Pine	Leaves	21.7	0.025	0.017	0.0023	Open Forest
Chir Pine	Twigs	21.7	0.022	0.014	0.0020	Open Forest
Chir Pine	Bark	21.7	0.022	0.014	0.0020	Open Forest
Chir Pine	Branches	21.7	0.022	0.014	0.0020	Open Forest
Catechu	Leaves	0.063	0.013	0.0089	0.0012	Dense Forest
Catechu	Twigs	0.063	0.012	0.0076	0.0011	Dense Forest
Catechu	Bark	0.063	0.012	0.0076	0.0011	Dense Forest
Catechu	Branches	0.063	0.012	0.0076	0.0011	Dense Forest
Babul	Leaves	0.063	0.0098	0.0065	0.00090	Dense Forest
Others	Leaves	0.063	0.0088	0.0058	0.00081	Dense Forest
Babul	Twigs	0.063	0.0084	0.0055	0.00077	Dense Forest
Babul	Bark	0.063	0.0084	0.0055	0.00077	Dense Forest
Babul	Branches	0.063	0.0084	0.0055	0.00077	Dense Forest
Others	Bark	0.063	0.0075	0.0050	0.00070	Dense Forest
Others	Branches	0.063	0.0075	0.0050	0.00070	Dense Forest
Others	Twigs	0.063	0.0075	0.0050	0.00070	Dense Forest
Eucalyptus	Leaves	0.063	0.0073	0.0048	0.00067	Dense Forest
Eucalyptus	Twigs	0.063	0.0063	0.0041	0.00058	Dense Forest
Eucalyptus	Bark	0.063	0.0063	0.0041	0.00058	Dense Forest
Eucalyptus	Branches	0.063	0.0063	0.0041	0.00058	Dense Forest
Shisham	Leaves	0.063	0.00073	0.00048	6.78E-05	Dense Forest
Shisham	Twigs	0.063	0.00063	0.00041	5.81E-05	Dense Forest
Shisham	Bark	0.063	0.00063	0.00041	5.81E-05	Dense Forest
Shisham	Branches	0.063	0.00063	0.00041	5.81E-05	Dense Forest
White Mulberry	Leaves	0.063	0.00041	0.00027	3.78E-05	Dense Forest
White Mulberry	Twigs	0.063	0.00035	0.00023	3.22E-05	Dense Forest
White Mulberry	Bark	0.063	0.00035	0.00023	3.22E-05	Dense Forest
White Mulberry	Branches	0.063	0.00035	0.00023	3.22E-05	Dense Forest
Chir Pine	Leaves	0.063	0.00020	0.00013	1.88E-05	Dense Forest
Chir Pine	Twigs	0.063	0.00017	0.00012	1.61E-05	Dense Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Chir Pine	Bark	0.063	0.00017	0.00012	1.61E-05	Dense Forest
Chir Pine	Branches	0.063	0.00017	0.00012	1.61E-05	Dense Forest
<b>Total</b>		<b>21.8</b>	<b>18.1</b>	<b>11.9</b>	<b>1.7</b>	

**Taluk level Residue-wise Data for Jalandhar-I ; Biomass Class : Forest**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.090	0.0069	0.0045	0.00063	Open Forest
Catechu	Twigs	0.090	0.0059	0.0039	0.00054	Open Forest
Catechu	Bark	0.090	0.0059	0.0039	0.00054	Open Forest
Catechu	Branches	0.090	0.0059	0.0039	0.00054	Open Forest
Babul	Leaves	0.090	0.0050	0.0033	0.00046	Open Forest
Others	Leaves	0.090	0.0045	0.0030	0.00041	Open Forest
Babul	Twigs	0.090	0.0043	0.0028	0.00039	Open Forest
Babul	Bark	0.090	0.0043	0.0028	0.00039	Open Forest
Babul	Branches	0.090	0.0043	0.0028	0.00039	Open Forest
Others	Twigs	0.090	0.0038	0.0025	0.00035	Open Forest
Others	Bark	0.090	0.0038	0.0025	0.00035	Open Forest
Others	Branches	0.090	0.0038	0.0025	0.00035	Open Forest
Eucalyptus	Leaves	0.090	0.0037	0.0024	0.00034	Open Forest
Eucalyptus	Twigs	0.090	0.0032	0.0021	0.00029	Open Forest
Eucalyptus	Bark	0.090	0.0032	0.0021	0.00029	Open Forest
Eucalyptus	Branches	0.090	0.0032	0.0021	0.00029	Open Forest
Shisham	Leaves	0.090	0.00037	0.00025	3.45E-05	Open Forest
Shisham	Twigs	0.090	0.00032	0.00021	2.96E-05	Open Forest
Shisham	Bark	0.090	0.00032	0.00021	2.96E-05	Open Forest
Shisham	Branches	0.090	0.00032	0.00021	2.96E-05	Open Forest
White Mulberry	Leaves	0.090	0.00021	0.00014	1.93E-05	Open Forest
White Mulberry	Twigs	0.090	0.00018	0.00012	1.64E-05	Open Forest
White Mulberry	Bark	0.090	0.00018	0.00012	1.64E-05	Open Forest
White Mulberry	Branches	0.090	0.00018	0.00012	1.64E-05	Open Forest
Chir Pine	Leaves	0.090	0.00010	6.84E-05	9.58E-06	Open Forest
Chir Pine	Twigs	0.090	8.89E-05	5.86E-05	8.21E-06	Open Forest
Chir Pine	Bark	0.090	8.89E-05	5.86E-05	8.21E-06	Open Forest
Chir Pine	Branches	0.090	8.89E-05	5.86E-05	8.21E-06	Open Forest
<b>Total</b>		<b>0.090</b>	<b>0.074</b>	<b>0.049</b>	<b>0.0068</b>	

<b>Taluk level Residue-wise Data for Jalandhar-Ii ; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.91	0.070	0.046	0.0064	Open Forest
Catechu	Twigs	0.91	0.060	0.039	0.0055	Open Forest
Catechu	Bark	0.91	0.060	0.039	0.0055	Open Forest
Catechu	Branches	0.91	0.060	0.039	0.0055	Open Forest
Babul	Leaves	0.91	0.050	0.033	0.0047	Open Forest
Others	Leaves	0.91	0.045	0.030	0.0042	Open Forest
Babul	Twigs	0.91	0.043	0.029	0.0040	Open Forest
Babul	Bark	0.91	0.043	0.029	0.0040	Open Forest
Babul	Branches	0.91	0.043	0.029	0.0040	Open Forest
Others	Twigs	0.91	0.039	0.026	0.0036	Open Forest
Others	Bark	0.91	0.039	0.026	0.0036	Open Forest
Others	Branches	0.91	0.039	0.026	0.0036	Open Forest
Eucalyptus	Leaves	0.91	0.038	0.025	0.0035	Open Forest
Eucalyptus	Twigs	0.91	0.032	0.021	0.0030	Open Forest
Eucalyptus	Bark	0.91	0.032	0.021	0.0030	Open Forest
Eucalyptus	Branches	0.91	0.032	0.021	0.0030	Open Forest
Shisham	Leaves	0.91	0.0038	0.0025	0.00035	Open Forest
Shisham	Twigs	0.91	0.0032	0.0021	0.00030	Open Forest
Shisham	Bark	0.91	0.0032	0.0021	0.00030	Open Forest
Shisham	Branches	0.91	0.0032	0.0021	0.00030	Open Forest
White Mulberry	Leaves	0.91	0.0021	0.0014	0.00020	Open Forest
White Mulberry	Twigs	0.91	0.0018	0.0012	0.00017	Open Forest
White Mulberry	Bark	0.91	0.0018	0.0012	0.00017	Open Forest
White Mulberry	Branches	0.91	0.0018	0.0012	0.00017	Open Forest
Chir Pine	Leaves	0.91	0.0011	0.00069	9.72E-05	Open Forest
Chir Pine	Twigs	0.91	0.00090	0.00059	8.33E-05	Open Forest
Chir Pine	Bark	0.91	0.00090	0.00059	8.33E-05	Open Forest
Chir Pine	Branches	0.91	0.00090	0.00059	8.33E-05	Open Forest
<b>Total</b>		<b>0.91</b>	<b>0.75</b>	<b>0.50</b>	<b>0.069</b>	

<b>Taluk level Residue-wise Data for Ludhiana(East) ; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.79	0.061	0.040	0.0056	Open Forest
Catechu	Twigs	0.79	0.052	0.034	0.0048	Open Forest
Catechu	Bark	0.79	0.052	0.034	0.0048	Open Forest
Catechu	Branches	0.79	0.052	0.034	0.0048	Open Forest
Babul	Leaves	0.79	0.044	0.029	0.0041	Open Forest
Others	Leaves	0.79	0.040	0.026	0.0037	Open Forest
Babul	Twigs	0.79	0.038	0.025	0.0035	Open Forest
Babul	Bark	0.79	0.038	0.025	0.0035	Open Forest
Babul	Branches	0.79	0.038	0.025	0.0035	Open Forest
Others	Twigs	0.79	0.034	0.022	0.0031	Open Forest
Others	Bark	0.79	0.034	0.022	0.0031	Open Forest
Others	Branches	0.79	0.034	0.022	0.0031	Open Forest
Eucalyptus	Leaves	0.79	0.033	0.022	0.0030	Open Forest
Eucalyptus	Twigs	0.79	0.028	0.019	0.0026	Open Forest
Eucalyptus	Bark	0.79	0.028	0.019	0.0026	Open Forest
Eucalyptus	Branches	0.79	0.028	0.019	0.0026	Open Forest
Shisham	Leaves	0.79	0.0033	0.0022	0.00031	Open Forest
Shisham	Twigs	0.79	0.0028	0.0019	0.00026	Open Forest
Shisham	Bark	0.79	0.0028	0.0019	0.00026	Open Forest
Shisham	Branches	0.79	0.0028	0.0019	0.00026	Open Forest
White Mulberry	Leaves	0.79	0.0018	0.0012	0.00017	Open Forest
White Mulberry	Twigs	0.79	0.0016	0.0010	0.00015	Open Forest
White Mulberry	Bark	0.79	0.0016	0.0010	0.00015	Open Forest
White Mulberry	Branches	0.79	0.0016	0.0010	0.00015	Open Forest
Chir Pine	Leaves	0.79	0.00092	0.00061	8.48E-05	Open Forest
Chir Pine	Twigs	0.79	0.00079	0.00052	7.27E-05	Open Forest
Chir Pine	Bark	0.79	0.00079	0.00052	7.27E-05	Open Forest
Chir Pine	Branches	0.79	0.00079	0.00052	7.27E-05	Open Forest
<b>Total</b>		<b>0.79</b>	<b>0.66</b>	<b>0.43</b>	<b>0.061</b>	

<b>Taluk level Residue-wise Data for Samrala ; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.78	0.17	0.11	0.015	Dense Forest
Catechu	Twigs	0.78	0.14	0.095	0.013	Dense Forest
Catechu	Bark	0.78	0.14	0.095	0.013	Dense Forest
Catechu	Branches	0.78	0.14	0.095	0.013	Dense Forest
Babul	Leaves	0.78	0.12	0.080	0.011	Dense Forest
Others	Leaves	0.78	0.11	0.072	0.010	Dense Forest
Babul	Twigs	0.78	0.10	0.069	0.0096	Dense Forest
Babul	Bark	0.78	0.10	0.069	0.0096	Dense Forest
Babul	Branches	0.78	0.10	0.069	0.0096	Dense Forest
Others	Twigs	0.78	0.093	0.062	0.0086	Dense Forest
Others	Bark	0.78	0.093	0.062	0.0086	Dense Forest
Others	Branches	0.78	0.093	0.062	0.0086	Dense Forest
Eucalyptus	Leaves	0.78	0.090	0.060	0.0084	Dense Forest
Eucalyptus	Twigs	0.78	0.077	0.051	0.0072	Dense Forest
Eucalyptus	Bark	0.78	0.077	0.051	0.0072	Dense Forest
Eucalyptus	Branches	0.78	0.077	0.051	0.0072	Dense Forest
Catechu	Leaves	0.85	0.065	0.043	0.0060	Open Forest
Catechu	Twigs	0.85	0.056	0.037	0.0051	Open Forest
Catechu	Bark	0.85	0.056	0.037	0.0051	Open Forest
Catechu	Branches	0.85	0.056	0.037	0.0051	Open Forest
Babul	Leaves	0.85	0.047	0.031	0.0043	Open Forest
Others	Leaves	0.85	0.042	0.028	0.0039	Open Forest
Babul	Twigs	0.85	0.040	0.027	0.0037	Open Forest
Babul	Bark	0.85	0.040	0.027	0.0037	Open Forest
Babul	Branches	0.85	0.040	0.027	0.0037	Open Forest
Others	Twigs	0.85	0.036	0.024	0.0033	Open Forest
Others	Bark	0.85	0.036	0.024	0.0033	Open Forest
Others	Branches	0.85	0.036	0.024	0.0033	Open Forest
Eucalyptus	Leaves	0.85	0.035	0.023	0.0032	Open Forest
Eucalyptus	Twigs	0.85	0.030	0.020	0.0028	Open Forest
Eucalyptus	Bark	0.85	0.030	0.020	0.0028	Open Forest
Eucalyptus	Branches	0.85	0.030	0.020	0.0028	Open Forest
Shisham	Leaves	0.78	0.0091	0.0060	0.00084	Dense Forest
Shisham	Twigs	0.78	0.0078	0.0051	0.00072	Dense Forest
Shisham	Bark	0.78	0.0078	0.0051	0.00072	Dense Forest
Shisham	Branches	0.78	0.0078	0.0051	0.00072	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Leaves	0.78	0.0051	0.0034	0.00047	Dense Forest
White Mulberry	Twigs	0.78	0.0043	0.0029	0.00040	Dense Forest
White Mulberry	Bark	0.78	0.0043	0.0029	0.00040	Dense Forest
White Mulberry	Branches	0.78	0.0043	0.0029	0.00040	Dense Forest
Shisham	Leaves	0.85	0.0035	0.0023	0.00033	Open Forest
Shisham	Twigs	0.85	0.0030	0.0020	0.00028	Open Forest
Shisham	Bark	0.85	0.0030	0.0020	0.00028	Open Forest
Shisham	Branches	0.85	0.0030	0.0020	0.00028	Open Forest
Chir Pine	Leaves	0.78	0.0025	0.0017	0.00023	Dense Forest
Chir Pine	Twigs	0.78	0.0022	0.0014	0.00020	Dense Forest
Chir Pine	Bark	0.78	0.0022	0.0014	0.00020	Dense Forest
Chir Pine	Branches	0.78	0.0022	0.0014	0.00020	Dense Forest
White Mulberry	Leaves	0.85	0.0020	0.0013	0.00018	Open Forest
White Mulberry	Twigs	0.85	0.0017	0.0011	0.00015	Open Forest
White Mulberry	Bark	0.85	0.0017	0.0011	0.00015	Open Forest
White Mulberry	Branches	0.85	0.0017	0.0011	0.00015	Open Forest
Chir Pine	Leaves	0.85	0.00098	0.00065	9.04E-05	Open Forest
Chir Pine	Twigs	0.85	0.00084	0.00055	7.75E-05	Open Forest
Chir Pine	Bark	0.85	0.00084	0.00055	7.75E-05	Open Forest
Chir Pine	Branches	0.85	0.00084	0.00055	7.75E-05	Open Forest
Catechu	Leaves	0.011	0.00034	0.00022	3.15E-05	Scrub
Catechu	Twigs	0.011	0.00029	0.00019	2.70E-05	Scrub
Catechu	Bark	0.011	0.00029	0.00019	2.70E-05	Scrub
Catechu	Branches	0.011	0.00029	0.00019	2.70E-05	Scrub
Babul	Leaves	0.011	0.00025	0.00016	2.28E-05	Scrub
Others	Leaves	0.011	0.00022	0.00015	2.05E-05	Scrub
Babul	Twigs	0.011	0.00021	0.00014	1.96E-05	Scrub
Babul	Bark	0.011	0.00021	0.00014	1.96E-05	Scrub
Babul	Branches	0.011	0.00021	0.00014	1.96E-05	Scrub
Others	Twigs	0.011	0.00019	0.00013	1.76E-05	Scrub
Others	Bark	0.011	0.00019	0.00013	1.76E-05	Scrub
Others	Branches	0.011	0.00019	0.00013	1.76E-05	Scrub
Eucalyptus	Leaves	0.011	0.00018	0.00012	1.70E-05	Scrub
Eucalyptus	Twigs	0.011	0.00016	0.00010	1.46E-05	Scrub
Eucalyptus	Bark	0.011	0.00016	0.00010	1.46E-05	Scrub
Eucalyptus	Branches	0.011	0.00016	0.00010	1.46E-05	Scrub
Shisham	Leaves	0.011	1.85E-05	1.22E-05	1.71E-06	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Twigs	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
Shisham	Bark	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
Shisham	Branches	0.011	1.59E-05	1.05E-05	1.47E-06	Scrub
White Mulberry	Leaves	0.011	1.03E-05	6.83E-06	9.56E-07	Scrub
White Mulberry	Twigs	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
White Mulberry	Bark	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
White Mulberry	Branches	0.011	8.80E-06	5.81E-06	8.13E-07	Scrub
Chir Pine	Leaves	0.011	5.15E-06	3.40E-06	4.75E-07	Scrub
Chir Pine	Twigs	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
Chir Pine	Bark	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
Chir Pine	Branches	0.011	4.41E-06	2.91E-06	4.08E-07	Scrub
<b>Total</b>		<b>1.6</b>	<b>2.5</b>	<b>1.7</b>	<b>0.23</b>	

<b>Taluk level Residue-wise Data for Balachaur ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	17.9	3.9	2.5	0.36	Dense Forest
Catechu	Twigs	17.9	3.3	2.2	0.31	Dense Forest
Catechu	Bark	17.9	3.3	2.2	0.31	Dense Forest
Catechu	Branches	17.9	3.3	2.2	0.31	Dense Forest
Babul	Leaves	17.9	2.8	1.8	0.26	Dense Forest
Others	Leaves	17.9	2.5	1.7	0.23	Dense Forest
Babul	Twigs	17.9	2.4	1.6	0.22	Dense Forest
Babul	Bark	17.9	2.4	1.6	0.22	Dense Forest
Babul	Branches	17.9	2.4	1.6	0.22	Dense Forest
Others	Twigs	17.9	2.2	1.4	0.20	Dense Forest
Others	Bark	17.9	2.2	1.4	0.20	Dense Forest
Others	Branches	17.9	2.2	1.4	0.20	Dense Forest
Eucalyptus	Leaves	17.9	2.1	1.4	0.19	Dense Forest
Eucalyptus	Twigs	17.9	1.8	1.2	0.16	Dense Forest
Eucalyptus	Bark	17.9	1.8	1.2	0.16	Dense Forest
Eucalyptus	Branches	17.9	1.8	1.2	0.16	Dense Forest
Shisham	Leaves	17.9	0.21	0.14	0.019	Dense Forest
Shisham	Twigs	17.9	0.18	0.12	0.017	Dense Forest
Shisham	Bark	17.9	0.18	0.12	0.017	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Branches	17.9	0.18	0.12	0.017	Dense Forest
White Mulberry	Leaves	17.9	0.12	0.077	0.011	Dense Forest
White Mulberry	Twigs	17.9	0.100	0.066	0.0092	Dense Forest
White Mulberry	Bark	17.9	0.100	0.066	0.0092	Dense Forest
White Mulberry	Branches	17.9	0.100	0.066	0.0092	Dense Forest
Chir Pine	Leaves	17.9	0.058	0.038	0.0054	Dense Forest
Chir Pine	Twigs	17.9	0.050	0.033	0.0046	Dense Forest
Chir Pine	Bark	17.9	0.050	0.033	0.0046	Dense Forest
Chir Pine	Branches	17.9	0.050	0.033	0.0046	Dense Forest
<b>Total</b>		<b>17.9</b>	<b>41.5</b>	<b>27.4</b>	<b>3.8</b>	

<b>Taluk level Residue-wise Data for Dera Bassi ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.25	0.019	0.012	0.0017	Open Forest
Catechu	Twigs	0.25	0.016	0.011	0.0015	Open Forest
Catechu	Bark	0.25	0.016	0.011	0.0015	Open Forest
Catechu	Branches	0.25	0.016	0.011	0.0015	Open Forest
Babul	Leaves	0.25	0.014	0.0090	0.0013	Open Forest
Others	Leaves	0.25	0.012	0.0081	0.0011	Open Forest
Babul	Twigs	0.25	0.012	0.0077	0.0011	Open Forest
Babul	Bark	0.25	0.012	0.0077	0.0011	Open Forest
Babul	Branches	0.25	0.012	0.0077	0.0011	Open Forest
Others	Twigs	0.25	0.011	0.0069	0.00097	Open Forest
Others	Bark	0.25	0.011	0.0069	0.00097	Open Forest
Others	Branches	0.25	0.011	0.0069	0.00097	Open Forest
Eucalyptus	Leaves	0.25	0.010	0.0067	0.00094	Open Forest
Eucalyptus	Twigs	0.25	0.0087	0.0057	0.00080	Open Forest
Eucalyptus	Bark	0.25	0.0087	0.0057	0.00080	Open Forest
Eucalyptus	Branches	0.25	0.0087	0.0057	0.00080	Open Forest
Shisham	Leaves	0.25	0.0010	0.00067	9.44E-05	Open Forest
Shisham	Twigs	0.25	0.00088	0.00058	8.09E-05	Open Forest
Shisham	Bark	0.25	0.00088	0.00058	8.09E-05	Open Forest
Shisham	Branches	0.25	0.00088	0.00058	8.09E-05	Open Forest
White Mulberry	Leaves	0.25	0.00057	0.00038	5.27E-05	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Twigs	0.25	0.00049	0.00032	4.49E-05	Open Forest
White Mulberry	Bark	0.25	0.00049	0.00032	4.49E-05	Open Forest
White Mulberry	Branches	0.25	0.00049	0.00032	4.49E-05	Open Forest
Chir Pine	Leaves	0.25	0.00028	0.00019	2.62E-05	Open Forest
Chir Pine	Twigs	0.25	0.00024	0.00016	2.25E-05	Open Forest
Chir Pine	Bark	0.25	0.00024	0.00016	2.25E-05	Open Forest
Chir Pine	Branches	0.25	0.00024	0.00016	2.25E-05	Open Forest
<b>Total</b>		<b>0.25</b>	<b>0.20</b>	<b>0.13</b>	<b>0.019</b>	

<b>Taluk level Residue-wise Data for Nabha ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	4.7	0.36	0.24	0.033	Open Forest
Catechu	Twigs	4.7	0.31	0.20	0.029	Open Forest
Catechu	Bark	4.7	0.31	0.20	0.029	Open Forest
Catechu	Branches	4.7	0.31	0.20	0.029	Open Forest
Babul	Leaves	4.7	0.26	0.17	0.024	Open Forest
Others	Leaves	4.7	0.24	0.16	0.022	Open Forest
Babul	Twigs	4.7	0.22	0.15	0.021	Open Forest
Babul	Bark	4.7	0.22	0.15	0.021	Open Forest
Babul	Branches	4.7	0.22	0.15	0.021	Open Forest
Others	Twigs	4.7	0.20	0.13	0.019	Open Forest
Others	Bark	4.7	0.20	0.13	0.019	Open Forest
Others	Branches	4.7	0.20	0.13	0.019	Open Forest
Eucalyptus	Leaves	4.7	0.20	0.13	0.018	Open Forest
Eucalyptus	Twigs	4.7	0.17	0.11	0.015	Open Forest
Eucalyptus	Bark	4.7	0.17	0.11	0.015	Open Forest
Eucalyptus	Branches	4.7	0.17	0.11	0.015	Open Forest
Shisham	Leaves	4.7	0.020	0.013	0.0018	Open Forest
Shisham	Twigs	4.7	0.017	0.011	0.0016	Open Forest
Shisham	Bark	4.7	0.017	0.011	0.0016	Open Forest
Shisham	Branches	4.7	0.017	0.011	0.0016	Open Forest
White Mulberry	Leaves	4.7	0.011	0.0072	0.0010	Open Forest
White Mulberry	Twigs	4.7	0.0093	0.0062	0.00086	Open Forest
White Mulberry	Bark	4.7	0.0093	0.0062	0.00086	Open Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Branches	4.7	0.0093	0.0062	0.00086	Open Forest
Catechu	Leaves	0.028	0.0061	0.0040	0.00056	Dense Forest
Chir Pine	Leaves	4.7	0.0055	0.0036	0.00050	Open Forest
Catechu	Twigs	0.028	0.0052	0.0034	0.00048	Dense Forest
Catechu	Bark	0.028	0.0052	0.0034	0.00048	Dense Forest
Catechu	Branches	0.028	0.0052	0.0034	0.00048	Dense Forest
Chir Pine	Twigs	4.7	0.0047	0.0031	0.00043	Open Forest
Chir Pine	Bark	4.7	0.0047	0.0031	0.00043	Open Forest
Chir Pine	Branches	4.7	0.0047	0.0031	0.00043	Open Forest
Babul	Leaves	0.028	0.0044	0.0029	0.00041	Dense Forest
Others	Leaves	0.028	0.0040	0.0026	0.00037	Dense Forest
Babul	Twigs	0.028	0.0038	0.0025	0.00035	Dense Forest
Babul	Bark	0.028	0.0038	0.0025	0.00035	Dense Forest
Babul	Branches	0.028	0.0038	0.0025	0.00035	Dense Forest
Others	Bark	0.028	0.0034	0.0022	0.00031	Dense Forest
Others	Branches	0.028	0.0034	0.0022	0.00031	Dense Forest
Others	Twigs	0.028	0.0034	0.0022	0.00031	Dense Forest
Eucalyptus	Leaves	0.028	0.0033	0.0022	0.00030	Dense Forest
Eucalyptus	Twigs	0.028	0.0028	0.0019	0.00026	Dense Forest
Eucalyptus	Bark	0.028	0.0028	0.0019	0.00026	Dense Forest
Eucalyptus	Branches	0.028	0.0028	0.0019	0.00026	Dense Forest
Shisham	Leaves	0.028	0.00033	0.00022	3.05E-05	Dense Forest
Shisham	Twigs	0.028	0.00028	0.00019	2.61E-05	Dense Forest
Shisham	Bark	0.028	0.00028	0.00019	2.61E-05	Dense Forest
Shisham	Branches	0.028	0.00028	0.00019	2.61E-05	Dense Forest
White Mulberry	Leaves	0.028	0.00018	0.00012	1.70E-05	Dense Forest
White Mulberry	Twigs	0.028	0.00016	0.00010	1.45E-05	Dense Forest
White Mulberry	Bark	0.028	0.00016	0.00010	1.45E-05	Dense Forest
White Mulberry	Branches	0.028	0.00016	0.00010	1.45E-05	Dense Forest
Chir Pine	Leaves	0.028	9.16E-05	6.05E-05	8.47E-06	Dense Forest
Chir Pine	Twigs	0.028	7.85E-05	5.18E-05	7.26E-06	Dense Forest
Chir Pine	Bark	0.028	7.85E-05	5.18E-05	7.26E-06	Dense Forest
Chir Pine	Branches	0.028	7.85E-05	5.18E-05	7.26E-06	Dense Forest
<b>Total</b>		<b>4.7</b>	<b>4.0</b>	<b>2.6</b>	<b>0.37</b>	

<b>Taluk level Residue-wise Data for Patiala ; Biomass Class : Forest</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.69	0.30	0.20	0.027	Dense Forest
Catechu	Twigs	0.69	0.25	0.17	0.023	Dense Forest
Catechu	Bark	0.69	0.25	0.17	0.023	Dense Forest
Catechu	Branches	0.69	0.25	0.17	0.023	Dense Forest
Babul	Leaves	0.69	0.22	0.14	0.020	Dense Forest
Others	Leaves	0.69	0.19	0.13	0.018	Dense Forest
Babul	Twigs	0.69	0.18	0.12	0.017	Dense Forest
Babul	Bark	0.69	0.18	0.12	0.017	Dense Forest
Babul	Branches	0.69	0.18	0.12	0.017	Dense Forest
Others	Twigs	0.69	0.17	0.11	0.015	Dense Forest
Others	Bark	0.69	0.17	0.11	0.015	Dense Forest
Others	Branches	0.69	0.17	0.11	0.015	Dense Forest
Eucalyptus	Leaves	0.69	0.16	0.11	0.015	Dense Forest
Eucalyptus	Twigs	0.69	0.14	0.091	0.013	Dense Forest
Eucalyptus	Bark	0.69	0.14	0.091	0.013	Dense Forest
Eucalyptus	Branches	0.69	0.14	0.091	0.013	Dense Forest
Catechu	Leaves	0.82	0.13	0.083	0.012	Open Forest
Catechu	Twigs	0.82	0.11	0.071	0.0099	Open Forest
Catechu	Bark	0.82	0.11	0.071	0.0099	Open Forest
Catechu	Branches	0.82	0.11	0.071	0.0099	Open Forest
Babul	Leaves	0.82	0.091	0.060	0.0084	Open Forest
Others	Leaves	0.82	0.082	0.054	0.0076	Open Forest
Babul	Twigs	0.82	0.078	0.051	0.0072	Open Forest
Babul	Bark	0.82	0.078	0.051	0.0072	Open Forest
Babul	Branches	0.82	0.078	0.051	0.0072	Open Forest
Others	Twigs	0.82	0.070	0.046	0.0065	Open Forest
Others	Bark	0.82	0.070	0.046	0.0065	Open Forest
Others	Branches	0.82	0.070	0.046	0.0065	Open Forest
Eucalyptus	Leaves	0.82	0.068	0.045	0.0063	Open Forest
Eucalyptus	Twigs	0.82	0.058	0.038	0.0054	Open Forest
Eucalyptus	Bark	0.82	0.058	0.038	0.0054	Open Forest
Eucalyptus	Branches	0.82	0.058	0.038	0.0054	Open Forest
Shisham	Leaves	0.69	0.016	0.011	0.0015	Dense Forest
Shisham	Twigs	0.69	0.014	0.0091	0.0013	Dense Forest
Shisham	Bark	0.69	0.014	0.0091	0.0013	Dense Forest
Shisham	Branches	0.69	0.014	0.0091	0.0013	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Leaves	0.69	0.0090	0.0059	0.00083	Dense Forest
White Mulberry	Twigs	0.69	0.0077	0.0051	0.00071	Dense Forest
White Mulberry	Bark	0.69	0.0077	0.0051	0.00071	Dense Forest
White Mulberry	Branches	0.69	0.0077	0.0051	0.00071	Dense Forest
Shisham	Leaves	0.82	0.0068	0.0045	0.00063	Open Forest
Shisham	Twigs	0.82	0.0058	0.0039	0.00054	Open Forest
Shisham	Bark	0.82	0.0058	0.0039	0.00054	Open Forest
Shisham	Branches	0.82	0.0058	0.0039	0.00054	Open Forest
Chir Pine	Leaves	0.69	0.0045	0.0030	0.00041	Dense Forest
Chir Pine	Twigs	0.69	0.0038	0.0025	0.00035	Dense Forest
Chir Pine	Bark	0.69	0.0038	0.0025	0.00035	Dense Forest
Chir Pine	Branches	0.69	0.0038	0.0025	0.00035	Dense Forest
White Mulberry	Leaves	0.82	0.0038	0.0025	0.00035	Open Forest
White Mulberry	Twigs	0.82	0.0032	0.0021	0.00030	Open Forest
White Mulberry	Bark	0.82	0.0032	0.0021	0.00030	Open Forest
White Mulberry	Branches	0.82	0.0032	0.0021	0.00030	Open Forest
Chir Pine	Leaves	0.82	0.0019	0.0012	0.00017	Open Forest
Chir Pine	Twigs	0.82	0.0016	0.0011	0.00015	Open Forest
Chir Pine	Bark	0.82	0.0016	0.0011	0.00015	Open Forest
Chir Pine	Branches	0.82	0.0016	0.0011	0.00015	Open Forest
<b>Total</b>		<b>1.5</b>	<b>4.5</b>	<b>3.0</b>	<b>0.42</b>	

<b>Taluk level Residue-wise Data for Rajpura ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.68	0.052	0.034	0.0048	Open Forest
Catechu	Twigs	0.68	0.045	0.030	0.0041	Open Forest
Catechu	Bark	0.68	0.045	0.030	0.0041	Open Forest
Catechu	Branches	0.68	0.045	0.030	0.0041	Open Forest
Catechu	Leaves	0.20	0.043	0.028	0.0040	Dense Forest
Babul	Leaves	0.68	0.038	0.025	0.0035	Open Forest
Catechu	Twigs	0.20	0.037	0.024	0.0034	Dense Forest
Catechu	Bark	0.20	0.037	0.024	0.0034	Dense Forest
Catechu	Branches	0.20	0.037	0.024	0.0034	Dense Forest
Others	Leaves	0.68	0.034	0.022	0.0031	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Twigs	0.68	0.032	0.021	0.0030	Open Forest
Babul	Bark	0.68	0.032	0.021	0.0030	Open Forest
Babul	Branches	0.68	0.032	0.021	0.0030	Open Forest
Babul	Leaves	0.20	0.031	0.021	0.0029	Dense Forest
Others	Twigs	0.68	0.029	0.019	0.0027	Open Forest
Others	Bark	0.68	0.029	0.019	0.0027	Open Forest
Others	Branches	0.68	0.029	0.019	0.0027	Open Forest
Eucalyptus	Leaves	0.68	0.028	0.019	0.0026	Open Forest
Others	Leaves	0.20	0.028	0.018	0.0026	Dense Forest
Babul	Twigs	0.20	0.027	0.018	0.0025	Dense Forest
Babul	Bark	0.20	0.027	0.018	0.0025	Dense Forest
Babul	Branches	0.20	0.027	0.018	0.0025	Dense Forest
Eucalyptus	Twigs	0.68	0.024	0.016	0.0022	Open Forest
Eucalyptus	Bark	0.68	0.024	0.016	0.0022	Open Forest
Eucalyptus	Branches	0.68	0.024	0.016	0.0022	Open Forest
Others	Twigs	0.20	0.024	0.016	0.0022	Dense Forest
Others	Bark	0.20	0.024	0.016	0.0022	Dense Forest
Others	Branches	0.20	0.024	0.016	0.0022	Dense Forest
Eucalyptus	Leaves	0.20	0.023	0.015	0.0021	Dense Forest
Eucalyptus	Twigs	0.20	0.020	0.013	0.0018	Dense Forest
Eucalyptus	Bark	0.20	0.020	0.013	0.0018	Dense Forest
Eucalyptus	Branches	0.20	0.020	0.013	0.0018	Dense Forest
Shisham	Leaves	0.68	0.0028	0.0019	0.00026	Open Forest
Shisham	Twigs	0.68	0.0024	0.0016	0.00022	Open Forest
Shisham	Bark	0.68	0.0024	0.0016	0.00022	Open Forest
Shisham	Branches	0.68	0.0024	0.0016	0.00022	Open Forest
Shisham	Leaves	0.20	0.0023	0.0015	0.00022	Dense Forest
Shisham	Twigs	0.20	0.0020	0.0013	0.00018	Dense Forest
Shisham	Bark	0.20	0.0020	0.0013	0.00018	Dense Forest
Shisham	Branches	0.20	0.0020	0.0013	0.00018	Dense Forest
White Mulberry	Leaves	0.68	0.0016	0.0010	0.00015	Open Forest
White Mulberry	Twigs	0.68	0.0013	0.00089	0.00012	Open Forest
White Mulberry	Bark	0.68	0.0013	0.00089	0.00012	Open Forest
White Mulberry	Branches	0.68	0.0013	0.00089	0.00012	Open Forest
White Mulberry	Leaves	0.20	0.0013	0.00086	0.00012	Dense Forest
White Mulberry	Twigs	0.20	0.0011	0.00073	0.00010	Dense Forest
White Mulberry	Bark	0.20	0.0011	0.00073	0.00010	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Branches	0.20	0.0011	0.00073	0.00010	Dense Forest
Chir Pine	Leaves	0.68	0.00079	0.00052	7.28E-05	Open Forest
Chir Pine	Twigs	0.68	0.00068	0.00045	6.24E-05	Open Forest
Chir Pine	Bark	0.68	0.00068	0.00045	6.24E-05	Open Forest
Chir Pine	Branches	0.68	0.00068	0.00045	6.24E-05	Open Forest
Chir Pine	Leaves	0.20	0.00065	0.00043	5.98E-05	Dense Forest
Chir Pine	Twigs	0.20	0.00055	0.00037	5.13E-05	Dense Forest
Chir Pine	Bark	0.20	0.00055	0.00037	5.13E-05	Dense Forest
Chir Pine	Branches	0.20	0.00055	0.00037	5.13E-05	Dense Forest
<b>Total</b>		<b>0.88</b>	<b>1.0</b>	<b>0.68</b>	<b>0.095</b>	

<b>Taluk level Residue-wise Data for Samana ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.76	0.023	0.015	0.0022	Scrub
Catechu	Twigs	0.76	0.020	0.013	0.0018	Scrub
Catechu	Bark	0.76	0.020	0.013	0.0018	Scrub
Catechu	Branches	0.76	0.020	0.013	0.0018	Scrub
Babul	Leaves	0.76	0.017	0.011	0.0016	Scrub
Others	Leaves	0.76	0.015	0.010	0.0014	Scrub
Babul	Twigs	0.76	0.014	0.0096	0.0013	Scrub
Babul	Bark	0.76	0.014	0.0096	0.0013	Scrub
Babul	Branches	0.76	0.014	0.0096	0.0013	Scrub
Others	Twigs	0.76	0.013	0.0086	0.0012	Scrub
Others	Bark	0.76	0.013	0.0086	0.0012	Scrub
Others	Branches	0.76	0.013	0.0086	0.0012	Scrub
Eucalyptus	Leaves	0.76	0.013	0.0083	0.0012	Scrub
Eucalyptus	Twigs	0.76	0.011	0.0071	0.00100	Scrub
Eucalyptus	Bark	0.76	0.011	0.0071	0.00100	Scrub
Eucalyptus	Branches	0.76	0.011	0.0071	0.00100	Scrub
Shisham	Leaves	0.76	0.0013	0.00084	0.00012	Scrub
Shisham	Twigs	0.76	0.0011	0.00072	0.00010	Scrub
Shisham	Bark	0.76	0.0011	0.00072	0.00010	Scrub
Shisham	Branches	0.76	0.0011	0.00072	0.00010	Scrub
White Mulberry	Leaves	0.76	0.00071	0.00047	6.54E-05	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Twigs	0.76	0.00060	0.00040	5.57E-05	Scrub
White Mulberry	Bark	0.76	0.00060	0.00040	5.57E-05	Scrub
White Mulberry	Branches	0.76	0.00060	0.00040	5.57E-05	Scrub
Chir Pine	Leaves	0.76	0.00035	0.00023	3.25E-05	Scrub
Chir Pine	Twigs	0.76	0.00030	0.00020	2.79E-05	Scrub
Chir Pine	Bark	0.76	0.00030	0.00020	2.79E-05	Scrub
Chir Pine	Branches	0.76	0.00030	0.00020	2.79E-05	Scrub
<b>Total</b>		<b>0.76</b>	<b>0.25</b>	<b>0.17</b>	<b>0.023</b>	

<b>Taluk level Residue-wise Data for Anandpur Sahib ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	11.3	0.87	0.57	0.080	Open Forest
Catechu	Twigs	11.3	0.74	0.49	0.069	Open Forest
Catechu	Bark	11.3	0.74	0.49	0.069	Open Forest
Catechu	Branches	11.3	0.74	0.49	0.069	Open Forest
Babul	Leaves	11.3	0.63	0.41	0.058	Open Forest
Others	Leaves	11.3	0.57	0.37	0.052	Open Forest
Babul	Twigs	11.3	0.54	0.36	0.050	Open Forest
Babul	Bark	11.3	0.54	0.36	0.050	Open Forest
Babul	Branches	11.3	0.54	0.36	0.050	Open Forest
Others	Twigs	11.3	0.48	0.32	0.045	Open Forest
Others	Bark	11.3	0.48	0.32	0.045	Open Forest
Others	Branches	11.3	0.48	0.32	0.045	Open Forest
Eucalyptus	Leaves	11.3	0.47	0.31	0.043	Open Forest
Eucalyptus	Twigs	11.3	0.40	0.27	0.037	Open Forest
Eucalyptus	Bark	11.3	0.40	0.27	0.037	Open Forest
Eucalyptus	Branches	11.3	0.40	0.27	0.037	Open Forest
Catechu	Leaves	4.5	0.14	0.091	0.013	Scrub
Catechu	Twigs	4.5	0.12	0.078	0.011	Scrub
Catechu	Bark	4.5	0.12	0.078	0.011	Scrub
Catechu	Branches	4.5	0.12	0.078	0.011	Scrub
Babul	Leaves	4.5	0.100	0.066	0.0092	Scrub
Others	Leaves	4.5	0.090	0.059	0.0083	Scrub
Babul	Twigs	4.5	0.086	0.056	0.0079	Scrub

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Bark	4.5	0.086	0.056	0.0079	Scrub
Babul	Branches	4.5	0.086	0.056	0.0079	Scrub
Others	Twigs	4.5	0.077	0.051	0.0071	Scrub
Others	Bark	4.5	0.077	0.051	0.0071	Scrub
Others	Branches	4.5	0.077	0.051	0.0071	Scrub
Eucalyptus	Leaves	4.5	0.074	0.049	0.0069	Scrub
Eucalyptus	Twigs	4.5	0.064	0.042	0.0059	Scrub
Eucalyptus	Bark	4.5	0.064	0.042	0.0059	Scrub
Eucalyptus	Branches	4.5	0.064	0.042	0.0059	Scrub
Catechu	Leaves	0.25	0.053	0.035	0.0049	Dense Forest
Shisham	Leaves	11.3	0.047	0.031	0.0044	Open Forest
Catechu	Twigs	0.25	0.045	0.030	0.0042	Dense Forest
Catechu	Bark	0.25	0.045	0.030	0.0042	Dense Forest
Catechu	Branches	0.25	0.045	0.030	0.0042	Dense Forest
Shisham	Twigs	11.3	0.040	0.027	0.0037	Open Forest
Shisham	Bark	11.3	0.040	0.027	0.0037	Open Forest
Shisham	Branches	11.3	0.040	0.027	0.0037	Open Forest
Babul	Leaves	0.25	0.038	0.025	0.0036	Dense Forest
Others	Leaves	0.25	0.035	0.023	0.0032	Dense Forest
Babul	Twigs	0.25	0.033	0.022	0.0030	Dense Forest
Babul	Bark	0.25	0.033	0.022	0.0030	Dense Forest
Babul	Branches	0.25	0.033	0.022	0.0030	Dense Forest
Others	Twigs	0.25	0.030	0.020	0.0027	Dense Forest
Others	Bark	0.25	0.030	0.020	0.0027	Dense Forest
Others	Branches	0.25	0.030	0.020	0.0027	Dense Forest
Eucalyptus	Leaves	0.25	0.029	0.019	0.0027	Dense Forest
White Mulberry	Leaves	11.3	0.026	0.017	0.0024	Open Forest
Eucalyptus	Twigs	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Bark	0.25	0.025	0.016	0.0023	Dense Forest
Eucalyptus	Branches	0.25	0.025	0.016	0.0023	Dense Forest
White Mulberry	Twigs	11.3	0.022	0.015	0.0021	Open Forest
White Mulberry	Bark	11.3	0.022	0.015	0.0021	Open Forest
White Mulberry	Branches	11.3	0.022	0.015	0.0021	Open Forest
Chir Pine	Leaves	11.3	0.013	0.0086	0.0012	Open Forest
Chir Pine	Twigs	11.3	0.011	0.0074	0.0010	Open Forest
Chir Pine	Bark	11.3	0.011	0.0074	0.0010	Open Forest
Chir Pine	Branches	11.3	0.011	0.0074	0.0010	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Leaves	4.5	0.0075	0.0049	0.00069	Scrub
Shisham	Twigs	4.5	0.0064	0.0042	0.00059	Scrub
Shisham	Bark	4.5	0.0064	0.0042	0.00059	Scrub
Shisham	Branches	4.5	0.0064	0.0042	0.00059	Scrub
White Mulberry	Leaves	4.5	0.0042	0.0028	0.00039	Scrub
White Mulberry	Twigs	4.5	0.0036	0.0023	0.00033	Scrub
White Mulberry	Bark	4.5	0.0036	0.0023	0.00033	Scrub
White Mulberry	Branches	4.5	0.0036	0.0023	0.00033	Scrub
Shisham	Leaves	0.25	0.0029	0.0019	0.00027	Dense Forest
Shisham	Twigs	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Bark	0.25	0.0025	0.0016	0.00023	Dense Forest
Shisham	Branches	0.25	0.0025	0.0016	0.00023	Dense Forest
Chir Pine	Leaves	4.5	0.0021	0.0014	0.00019	Scrub
Chir Pine	Twigs	4.5	0.0018	0.0012	0.00016	Scrub
Chir Pine	Bark	4.5	0.0018	0.0012	0.00016	Scrub
Chir Pine	Branches	4.5	0.0018	0.0012	0.00016	Scrub
White Mulberry	Leaves	0.25	0.0016	0.0011	0.00015	Dense Forest
White Mulberry	Twigs	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Bark	0.25	0.0014	0.00091	0.00013	Dense Forest
White Mulberry	Branches	0.25	0.0014	0.00091	0.00013	Dense Forest
Chir Pine	Leaves	0.25	0.00080	0.00053	7.41E-05	Dense Forest
Chir Pine	Twigs	0.25	0.00069	0.00045	6.35E-05	Dense Forest
Chir Pine	Bark	0.25	0.00069	0.00045	6.35E-05	Dense Forest
Chir Pine	Branches	0.25	0.00069	0.00045	6.35E-05	Dense Forest
<b>Total</b>		<b>16.1</b>	<b>11.4</b>	<b>7.5</b>	<b>1.1</b>	

<b>Taluk level Residue-wise Data for Kharar ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	12.4	2.7	1.8	0.25	Dense Forest
Catechu	Twigs	12.4	2.3	1.5	0.21	Dense Forest
Catechu	Bark	12.4	2.3	1.5	0.21	Dense Forest
Catechu	Branches	12.4	2.3	1.5	0.21	Dense Forest
Babul	Leaves	12.4	1.9	1.3	0.18	Dense Forest
Others	Leaves	12.4	1.7	1.1	0.16	Dense Forest



Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Twigs	12.4	1.6	1.1	0.15	Dense Forest
Babul	Bark	12.4	1.6	1.1	0.15	Dense Forest
Babul	Branches	12.4	1.6	1.1	0.15	Dense Forest
Others	Twigs	12.4	1.5	0.98	0.14	Dense Forest
Others	Bark	12.4	1.5	0.98	0.14	Dense Forest
Others	Branches	12.4	1.5	0.98	0.14	Dense Forest
Eucalyptus	Leaves	12.4	1.4	0.95	0.13	Dense Forest
Eucalyptus	Twigs	12.4	1.2	0.81	0.11	Dense Forest
Eucalyptus	Bark	12.4	1.2	0.81	0.11	Dense Forest
Eucalyptus	Branches	12.4	1.2	0.81	0.11	Dense Forest
Shisham	Leaves	12.4	0.14	0.095	0.013	Dense Forest
Shisham	Twigs	12.4	0.12	0.082	0.011	Dense Forest
Shisham	Bark	12.4	0.12	0.082	0.011	Dense Forest
Shisham	Branches	12.4	0.12	0.082	0.011	Dense Forest
White Mulberry	Leaves	12.4	0.081	0.053	0.0074	Dense Forest
White Mulberry	Twigs	12.4	0.069	0.045	0.0063	Dense Forest
White Mulberry	Bark	12.4	0.069	0.045	0.0063	Dense Forest
White Mulberry	Branches	12.4	0.069	0.045	0.0063	Dense Forest
Chir Pine	Leaves	12.4	0.040	0.026	0.0037	Dense Forest
Chir Pine	Twigs	12.4	0.034	0.023	0.0032	Dense Forest
Chir Pine	Bark	12.4	0.034	0.023	0.0032	Dense Forest
Chir Pine	Branches	12.4	0.034	0.023	0.0032	Dense Forest
<b>Total</b>		<b>12.4</b>	<b>28.6</b>	<b>18.9</b>	<b>2.6</b>	

<b>Taluk level Residue-wise Data for Rupnagar ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	10.3	1.6	1.0	0.15	Open Forest
Catechu	Twigs	10.3	1.4	0.89	0.12	Open Forest
Catechu	Bark	10.3	1.4	0.89	0.12	Open Forest
Catechu	Branches	10.3	1.4	0.89	0.12	Open Forest
Babul	Leaves	10.3	1.1	0.75	0.11	Open Forest
Others	Leaves	10.3	1.0	0.68	0.095	Open Forest
Babul	Twigs	10.3	0.98	0.65	0.090	Open Forest
Babul	Bark	10.3	0.98	0.65	0.090	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Branches	10.3	0.98	0.65	0.090	Open Forest
Catechu	Leaves	2.2	0.95	0.62	0.087	Dense Forest
Others	Twigs	10.3	0.88	0.58	0.081	Open Forest
Others	Bark	10.3	0.88	0.58	0.081	Open Forest
Others	Branches	10.3	0.88	0.58	0.081	Open Forest
Eucalyptus	Leaves	10.3	0.85	0.56	0.079	Open Forest
Catechu	Twigs	2.2	0.81	0.53	0.075	Dense Forest
Catechu	Bark	2.2	0.81	0.53	0.075	Dense Forest
Catechu	Branches	2.2	0.81	0.53	0.075	Dense Forest
Eucalyptus	Twigs	10.3	0.73	0.48	0.067	Open Forest
Eucalyptus	Bark	10.3	0.73	0.48	0.067	Open Forest
Eucalyptus	Branches	10.3	0.73	0.48	0.067	Open Forest
Babul	Leaves	2.2	0.69	0.45	0.063	Dense Forest
Others	Leaves	2.2	0.62	0.41	0.057	Dense Forest
Babul	Twigs	2.2	0.59	0.39	0.054	Dense Forest
Babul	Bark	2.2	0.59	0.39	0.054	Dense Forest
Babul	Branches	2.2	0.59	0.39	0.054	Dense Forest
Others	Bark	2.2	0.53	0.35	0.049	Dense Forest
Others	Branches	2.2	0.53	0.35	0.049	Dense Forest
Others	Twigs	2.2	0.53	0.35	0.049	Dense Forest
Eucalyptus	Leaves	2.2	0.51	0.34	0.047	Dense Forest
Eucalyptus	Twigs	2.2	0.44	0.29	0.040	Dense Forest
Eucalyptus	Bark	2.2	0.44	0.29	0.040	Dense Forest
Eucalyptus	Branches	2.2	0.44	0.29	0.040	Dense Forest
Shisham	Leaves	10.3	0.086	0.057	0.0079	Open Forest
Shisham	Twigs	10.3	0.073	0.048	0.0068	Open Forest
Shisham	Bark	10.3	0.073	0.048	0.0068	Open Forest
Shisham	Branches	10.3	0.073	0.048	0.0068	Open Forest
Shisham	Leaves	2.2	0.051	0.034	0.0047	Dense Forest
White Mulberry	Leaves	10.3	0.048	0.032	0.0044	Open Forest
Shisham	Twigs	2.2	0.044	0.029	0.0041	Dense Forest
Shisham	Bark	2.2	0.044	0.029	0.0041	Dense Forest
Shisham	Branches	2.2	0.044	0.029	0.0041	Dense Forest
White Mulberry	Twigs	10.3	0.041	0.027	0.0038	Open Forest
White Mulberry	Bark	10.3	0.041	0.027	0.0038	Open Forest
White Mulberry	Branches	10.3	0.041	0.027	0.0038	Open Forest
White Mulberry	Leaves	2.2	0.029	0.019	0.0027	Dense Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Twigs	2.2	0.024	0.016	0.0023	Dense Forest
White Mulberry	Bark	2.2	0.024	0.016	0.0023	Dense Forest
White Mulberry	Branches	2.2	0.024	0.016	0.0023	Dense Forest
Chir Pine	Leaves	10.3	0.024	0.016	0.0022	Open Forest
Chir Pine	Twigs	10.3	0.020	0.013	0.0019	Open Forest
Chir Pine	Bark	10.3	0.020	0.013	0.0019	Open Forest
Chir Pine	Branches	10.3	0.020	0.013	0.0019	Open Forest
Chir Pine	Leaves	2.2	0.014	0.0094	0.0013	Dense Forest
Chir Pine	Twigs	2.2	0.012	0.0081	0.0011	Dense Forest
Chir Pine	Bark	2.2	0.012	0.0081	0.0011	Dense Forest
Chir Pine	Branches	2.2	0.012	0.0081	0.0011	Dense Forest
<b>Total</b>		<b>12.5</b>	<b>27.2</b>	<b>17.9</b>	<b>2.5</b>	

<b>Taluk level Residue-wise Data for Sangrur ; Biomass Class : Forest</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.27	0.041	0.027	0.0038	Open Forest
Catechu	Twigs	0.27	0.035	0.023	0.0032	Open Forest
Catechu	Bark	0.27	0.035	0.023	0.0032	Open Forest
Catechu	Branches	0.27	0.035	0.023	0.0032	Open Forest
Babul	Leaves	0.27	0.029	0.019	0.0027	Open Forest
Others	Leaves	0.27	0.027	0.018	0.0025	Open Forest
Babul	Twigs	0.27	0.025	0.017	0.0023	Open Forest
Babul	Bark	0.27	0.025	0.017	0.0023	Open Forest
Babul	Branches	0.27	0.025	0.017	0.0023	Open Forest
Others	Twigs	0.27	0.023	0.015	0.0021	Open Forest
Others	Bark	0.27	0.023	0.015	0.0021	Open Forest
Others	Branches	0.27	0.023	0.015	0.0021	Open Forest
Eucalyptus	Leaves	0.27	0.022	0.015	0.0020	Open Forest
Eucalyptus	Twigs	0.27	0.019	0.012	0.0017	Open Forest
Eucalyptus	Bark	0.27	0.019	0.012	0.0017	Open Forest
Eucalyptus	Branches	0.27	0.019	0.012	0.0017	Open Forest
Shisham	Leaves	0.27	0.0022	0.0015	0.00020	Open Forest
Shisham	Twigs	0.27	0.0019	0.0013	0.00018	Open Forest
Shisham	Bark	0.27	0.0019	0.0013	0.00018	Open Forest

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Shisham	Branches	0.27	0.0019	0.0013	0.00018	Open Forest
White Mulberry	Leaves	0.27	0.0012	0.00082	0.00011	Open Forest
White Mulberry	Twigs	0.27	0.0011	0.00069	9.71E-05	Open Forest
White Mulberry	Bark	0.27	0.0011	0.00069	9.71E-05	Open Forest
White Mulberry	Branches	0.27	0.0011	0.00069	9.71E-05	Open Forest
Chir Pine	Leaves	0.27	0.00061	0.00041	5.68E-05	Open Forest
Chir Pine	Twigs	0.27	0.00053	0.00035	4.86E-05	Open Forest
Chir Pine	Bark	0.27	0.00053	0.00035	4.86E-05	Open Forest
Chir Pine	Branches	0.27	0.00053	0.00035	4.86E-05	Open Forest
<b>Total</b>		<b>0.27</b>	<b>0.44</b>	<b>0.29</b>	<b>0.041</b>	

# Wasteland

## Punjab Forest and Wasteland Map



## State Level Residue Wise

State level Residue-wise Data for Punjab; Biomass Class : Wasteland						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	51.0	10.7	7.1	0.99	Wasteland
Catechu	Twigs	51.0	9.2	6.1	0.85	Wasteland
Catechu	Bark	51.0	9.2	6.1	0.85	Wasteland
Catechu	Branches	51.0	9.2	6.1	0.85	Wasteland
Babul	Leaves	51.0	7.8	5.1	0.72	Wasteland
Others	Leaves	51.0	7.0	4.6	0.65	Wasteland
Babul	Twigs	51.0	6.7	4.4	0.61	Wasteland

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Babul	Bark	51.0	6.7	4.4	0.61	Wasteland
Babul	Branches	51.0	6.7	4.4	0.61	Wasteland
Others	Branches	51.0	6.0	4.0	0.55	Wasteland
Others	Bark	51.0	6.0	4.0	0.55	Wasteland
Others	Twigs	51.0	6.0	4.0	0.55	Wasteland
Eucalyptus	Leaves	51.0	5.8	3.8	0.54	Wasteland
Eucalyptus	Bark	51.0	5.0	3.3	0.46	Wasteland
Eucalyptus	Branches	51.0	5.0	3.3	0.46	Wasteland
Eucalyptus	Twigs	51.0	5.0	3.3	0.46	Wasteland
Shisham	Leaves	51.0	0.58	0.38	0.054	Wasteland
Shisham	Bark	51.0	0.50	0.33	0.046	Wasteland
Shisham	Twigs	51.0	0.50	0.33	0.046	Wasteland
Shisham	Branches	51.0	0.50	0.33	0.046	Wasteland
White Mulberry	Leaves	51.0	0.33	0.21	0.030	Wasteland
White Mulberry	Twigs	51.0	0.28	0.18	0.026	Wasteland
White Mulberry	Bark	51.0	0.28	0.18	0.026	Wasteland
White Mulberry	Branches	51.0	0.28	0.18	0.026	Wasteland
Chir Pine	Leaves	51.0	0.16	0.11	0.015	Wasteland
Chir Pine	Bark	51.0	0.14	0.091	0.013	Wasteland
Chir Pine	Branches	51.0	0.14	0.091	0.013	Wasteland
Chir Pine	Twigs	51.0	0.14	0.091	0.013	Wasteland
<b>Total</b>		<b>51.0</b>	<b>115.4</b>	<b>76.2</b>	<b>10.7</b>	

## State Level District Wise

<b>State level District-wise Data for Punjab ; Biomass Class : Wasteland</b>				
District	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Ferozpur	21.5	61.6	40.7	5.7
Bathinda	6.4	11.0	7.3	1.0
Gurdaspur	5.6	10.5	6.9	0.97
Muktsar	4.7	7.8	5.2	0.72
Amritsar	2.8	5.4	3.5	0.50
Mansa	2.8	4.7	3.1	0.43

District	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Rupnagar	1.8	4.2	2.8	0.39
Ludhiana	1.9	3.1	2.0	0.29
Kapurthala	1.4	2.6	1.7	0.24
Patiala	0.72	1.7	1.1	0.16
Sangrur	0.26	0.74	0.49	0.068
Hoshiarpur	0.37	0.61	0.40	0.056
Nawanshahr	0.30	0.50	0.33	0.046
Jalandhar	0.22	0.45	0.30	0.041
Faridkot	0.13	0.35	0.23	0.033
Fatehgarh Sahib	0.11	0.19	0.12	0.017
<b>Total</b>	<b>51.0</b>	<b>115.4</b>	<b>76.2</b>	<b>10.7</b>

### State Level Taluk Wise

State level Taluk-wise Data for Punjab ; Biomass Class : Wasteland					
District	Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Firozpur	Abohar	15.8	52.1	34.4	4.8
Gurdaspur	Pathankot	4.2	6.9	4.6	0.64
Bathinda	Bathinda	3.5	5.7	3.8	0.53
Firozpur	Fazilka	3.1	5.0	3.3	0.47
Muktsar	Malout	3.0	4.9	3.2	0.45
Bathinda	Talwandi Sabo	2.7	4.5	2.9	0.41
Mansa	Sardulgarh	1.9	3.1	2.1	0.29
Amritsar	Ajnala	1.6	2.7	1.8	0.25
Rupnagar	Rupnagar	0.79	2.6	1.7	0.24
Gurdaspur	Gurdaspur	0.75	2.5	1.6	0.23
Firozpur	Firozpur	1.3	2.1	1.4	0.20
Firozpur	Jalalabad	1.2	2.1	1.4	0.19
Kapurthala	Kapurthala	1.1	1.9	1.2	0.17
Muktsar	Giddarbaha	1.1	1.8	1.2	0.17
Amritsar	Patti	0.48	1.6	1.0	0.15
Ludhiana	Ludhiana(East)	0.95	1.6	1.0	0.15
Muktsar	Muktsar	0.72	1.2	0.78	0.11

District	Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Patiala	Patiala	0.32	1.0	0.69	0.096
Ludhiana	Ludhiana(West)	0.58	0.97	0.64	0.089
Mansa	Mansa	0.54	0.89	0.59	0.082
Rupnagar	Anandpur Sahib	0.51	0.84	0.56	0.078
Gurdaspur	Dera Baba Nanak	0.47	0.78	0.52	0.072
Bathinda	Rampura Phul	0.24	0.78	0.51	0.072
Rupnagar	S.A.S.Nagar(Mohali)	0.45	0.75	0.49	0.069
Mansa	Budhlada	0.40	0.67	0.44	0.062
Patiala	Dera Bassi	0.40	0.65	0.43	0.060
Sangrur	Sangrur	0.19	0.63	0.41	0.058
Kapurthala	Sultanpur Lodhi	0.19	0.63	0.41	0.058
Amritsar	Khadur Sahib	0.23	0.37	0.25	0.034
Amritsar	Amristar-I	0.22	0.37	0.24	0.034
Nawanshahr	Nawanshahr	0.18	0.30	0.20	0.028
Faridkot	Jaitu	0.089	0.29	0.19	0.027
Hoshiarpur	Hoshiarpur	0.17	0.29	0.19	0.026
Ludhiana	Jagraon	0.17	0.29	0.19	0.026
Ferozpur	Zira	0.17	0.28	0.18	0.026
Ludhiana	Samrala	0.16	0.26	0.17	0.024
Hoshiarpur	Mukerian	0.16	0.26	0.17	0.024
Gurdaspur	Dhar Kalan	0.15	0.24	0.16	0.023
Nawanshahr	Balachaur	0.12	0.20	0.13	0.019
Fatehgarh Sahib	Amlon	0.11	0.19	0.12	0.017
Amritsar	Tarn-Taran	0.11	0.18	0.12	0.017
Amritsar	Baba Bakala	0.10	0.17	0.11	0.015
Jalandhar	Jalandhar-Ii	0.099	0.16	0.11	0.015
Jalandhar	Phillaur	0.048	0.16	0.10	0.015
Kapurthala	Bhulath	0.085	0.14	0.093	0.013
Gurdaspur	Batala	0.044	0.073	0.048	0.0067
Jalandhar	Nakodar	0.038	0.063	0.042	0.0059
Jalandhar	Jalandhar-I	0.038	0.063	0.042	0.0059
Sangrur	Barnala	0.037	0.061	0.040	0.0056
Faridkot	Faridkot	0.036	0.060	0.039	0.0055
Hoshiarpur	Dasua	0.035	0.058	0.039	0.0054
Sangrur	Sunam	0.029	0.048	0.031	0.0044
Patiala	Samana	0.012	0.020	0.013	0.0019
<b>Total</b>		<b>51.0</b>	<b>115.4</b>	<b>76.2</b>	<b>10.7</b>



## District Level Residue Wise

<b>District level Residue-wise Data for Amritsar; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	2.8	0.50	0.33	0.046	Wasteland
Catechu	Twigs	2.8	0.43	0.28	0.039	Wasteland
Catechu	Bark	2.8	0.43	0.28	0.039	Wasteland
Catechu	Branches	2.8	0.43	0.28	0.039	Wasteland
Babul	Leaves	2.8	0.36	0.24	0.033	Wasteland
Others	Leaves	2.8	0.33	0.21	0.030	Wasteland
Babul	Twigs	2.8	0.31	0.20	0.029	Wasteland
Babul	Bark	2.8	0.31	0.20	0.029	Wasteland
Babul	Branches	2.8	0.31	0.20	0.029	Wasteland
Others	Twigs	2.8	0.28	0.18	0.026	Wasteland
Others	Bark	2.8	0.28	0.18	0.026	Wasteland
Others	Branches	2.8	0.28	0.18	0.026	Wasteland
Eucalyptus	Leaves	2.8	0.27	0.18	0.025	Wasteland
Eucalyptus	Twigs	2.8	0.23	0.15	0.021	Wasteland
Eucalyptus	Bark	2.8	0.23	0.15	0.021	Wasteland
Eucalyptus	Branches	2.8	0.23	0.15	0.021	Wasteland
Shisham	Leaves	2.8	0.027	0.018	0.0025	Wasteland
Shisham	Twigs	2.8	0.023	0.015	0.0021	Wasteland
Shisham	Bark	2.8	0.023	0.015	0.0021	Wasteland
Shisham	Branches	2.8	0.023	0.015	0.0021	Wasteland
White Mulberry	Leaves	2.8	0.015	0.0100	0.0014	Wasteland
White Mulberry	Twigs	2.8	0.013	0.0085	0.0012	Wasteland
White Mulberry	Bark	2.8	0.013	0.0085	0.0012	Wasteland
White Mulberry	Branches	2.8	0.013	0.0085	0.0012	Wasteland
Chir Pine	Leaves	2.8	0.0075	0.0050	0.00070	Wasteland
Chir Pine	Twigs	2.8	0.0065	0.0043	0.00060	Wasteland
Chir Pine	Bark	2.8	0.0065	0.0043	0.00060	Wasteland
Chir Pine	Branches	2.8	0.0065	0.0043	0.00060	Wasteland
<b>Total</b>		<b>2.8</b>	<b>5.4</b>	<b>3.5</b>	<b>0.50</b>	

<b>District level Residue-wise Data for Bathinda; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	6.4	1.0	0.67	0.094	Wasteland
Catechu	Twigs	6.4	0.87	0.58	0.081	Wasteland
Catechu	Bark	6.4	0.87	0.58	0.081	Wasteland
Catechu	Branches	6.4	0.87	0.58	0.081	Wasteland
Babul	Leaves	6.4	0.74	0.49	0.068	Wasteland
Others	Leaves	6.4	0.67	0.44	0.061	Wasteland
Babul	Twigs	6.4	0.63	0.42	0.059	Wasteland
Babul	Bark	6.4	0.63	0.42	0.059	Wasteland
Babul	Branches	6.4	0.63	0.42	0.059	Wasteland
Others	Twigs	6.4	0.57	0.38	0.053	Wasteland
Others	Bark	6.4	0.57	0.38	0.053	Wasteland
Others	Branches	6.4	0.57	0.38	0.053	Wasteland
Eucalyptus	Leaves	6.4	0.55	0.36	0.051	Wasteland
Eucalyptus	Twigs	6.4	0.47	0.31	0.044	Wasteland
Eucalyptus	Bark	6.4	0.47	0.31	0.044	Wasteland
Eucalyptus	Branches	6.4	0.47	0.31	0.044	Wasteland
Shisham	Leaves	6.4	0.055	0.037	0.0051	Wasteland
Shisham	Twigs	6.4	0.048	0.031	0.0044	Wasteland
Shisham	Bark	6.4	0.048	0.031	0.0044	Wasteland
Shisham	Branches	6.4	0.048	0.031	0.0044	Wasteland
White Mulberry	Leaves	6.4	0.031	0.020	0.0029	Wasteland
White Mulberry	Twigs	6.4	0.026	0.017	0.0024	Wasteland
White Mulberry	Bark	6.4	0.026	0.017	0.0024	Wasteland
White Mulberry	Branches	6.4	0.026	0.017	0.0024	Wasteland
Chir Pine	Leaves	6.4	0.015	0.010	0.0014	Wasteland
Chir Pine	Twigs	6.4	0.013	0.0087	0.0012	Wasteland
Chir Pine	Bark	6.4	0.013	0.0087	0.0012	Wasteland
Chir Pine	Branches	6.4	0.013	0.0087	0.0012	Wasteland
<b>Total</b>		<b>6.4</b>	<b>11.0</b>	<b>7.3</b>	<b>1.0</b>	

<b>District level Residue-wise Data for Faridkot; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.13	0.033	0.022	0.0030	Wasteland
Catechu	Twigs	0.13	0.028	0.019	0.0026	Wasteland
Catechu	Bark	0.13	0.028	0.019	0.0026	Wasteland
Catechu	Branches	0.13	0.028	0.019	0.0026	Wasteland
Babul	Leaves	0.13	0.024	0.016	0.0022	Wasteland
Others	Leaves	0.13	0.021	0.014	0.0020	Wasteland
Babul	Twigs	0.13	0.020	0.013	0.0019	Wasteland
Babul	Bark	0.13	0.020	0.013	0.0019	Wasteland
Babul	Branches	0.13	0.020	0.013	0.0019	Wasteland
Others	Twigs	0.13	0.018	0.012	0.0017	Wasteland
Others	Bark	0.13	0.018	0.012	0.0017	Wasteland
Others	Branches	0.13	0.018	0.012	0.0017	Wasteland
Eucalyptus	Leaves	0.13	0.018	0.012	0.0016	Wasteland
Eucalyptus	Twigs	0.13	0.015	0.010	0.0014	Wasteland
Eucalyptus	Bark	0.13	0.015	0.010	0.0014	Wasteland
Eucalyptus	Branches	0.13	0.015	0.010	0.0014	Wasteland
Shisham	Leaves	0.13	0.0018	0.0012	0.00016	Wasteland
Shisham	Twigs	0.13	0.0015	0.0010	0.00014	Wasteland
Shisham	Bark	0.13	0.0015	0.0010	0.00014	Wasteland
Shisham	Branches	0.13	0.0015	0.0010	0.00014	Wasteland
White Mulberry	Leaves	0.13	0.00100	0.00066	9.20E-05	Wasteland
White Mulberry	Twigs	0.13	0.00085	0.00056	7.83E-05	Wasteland
White Mulberry	Bark	0.13	0.00085	0.00056	7.83E-05	Wasteland
White Mulberry	Branches	0.13	0.00085	0.00056	7.83E-05	Wasteland
Chir Pine	Leaves	0.13	0.00050	0.00033	4.58E-05	Wasteland
Chir Pine	Twigs	0.13	0.00042	0.00028	3.92E-05	Wasteland
Chir Pine	Bark	0.13	0.00042	0.00028	3.92E-05	Wasteland
Chir Pine	Branches	0.13	0.00042	0.00028	3.92E-05	Wasteland
<b>Total</b>		<b>0.13</b>	<b>0.35</b>	<b>0.23</b>	<b>0.033</b>	

<b>District level Residue-wise Data for Fatehgarh Sahib; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.11	0.018	0.012	0.0016	Wasteland
Catechu	Twigs	0.11	0.015	0.0099	0.0014	Wasteland
Catechu	Bark	0.11	0.015	0.0099	0.0014	Wasteland
Catechu	Branches	0.11	0.015	0.0099	0.0014	Wasteland
Babul	Leaves	0.11	0.013	0.0084	0.0012	Wasteland
Others	Leaves	0.11	0.011	0.0076	0.0011	Wasteland
Babul	Twigs	0.11	0.011	0.0072	0.0010	Wasteland
Babul	Bark	0.11	0.011	0.0072	0.0010	Wasteland
Babul	Branches	0.11	0.011	0.0072	0.0010	Wasteland
Others	Twigs	0.11	0.0098	0.0065	0.00091	Wasteland
Others	Bark	0.11	0.0098	0.0065	0.00091	Wasteland
Others	Branches	0.11	0.0098	0.0065	0.00091	Wasteland
Eucalyptus	Leaves	0.11	0.0095	0.0063	0.00088	Wasteland
Eucalyptus	Twigs	0.11	0.0081	0.0054	0.00075	Wasteland
Eucalyptus	Bark	0.11	0.0081	0.0054	0.00075	Wasteland
Eucalyptus	Branches	0.11	0.0081	0.0054	0.00075	Wasteland
Shisham	Leaves	0.11	0.00095	0.00063	8.82E-05	Wasteland
Shisham	Twigs	0.11	0.00082	0.00054	7.56E-05	Wasteland
Shisham	Bark	0.11	0.00082	0.00054	7.56E-05	Wasteland
Shisham	Branches	0.11	0.00082	0.00054	7.56E-05	Wasteland
White Mulberry	Leaves	0.11	0.00053	0.00035	4.92E-05	Wasteland
White Mulberry	Twigs	0.11	0.00045	0.00030	4.19E-05	Wasteland
White Mulberry	Bark	0.11	0.00045	0.00030	4.19E-05	Wasteland
White Mulberry	Branches	0.11	0.00045	0.00030	4.19E-05	Wasteland
Chir Pine	Leaves	0.11	0.00027	0.00017	2.45E-05	Wasteland
Chir Pine	Twigs	0.11	0.00023	0.00015	2.10E-05	Wasteland
Chir Pine	Bark	0.11	0.00023	0.00015	2.10E-05	Wasteland
Chir Pine	Branches	0.11	0.00023	0.00015	2.10E-05	Wasteland
<b>Total</b>		<b>0.11</b>	<b>0.19</b>	<b>0.12</b>	<b>0.017</b>	

<b>District level Residue-wise Data for Firozpur; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	21.5	5.7	3.8	0.53	Wasteland
Catechu	Twigs	21.5	4.9	3.2	0.45	Wasteland
Catechu	Bark	21.5	4.9	3.2	0.45	Wasteland
Catechu	Branches	21.5	4.9	3.2	0.45	Wasteland
Babul	Leaves	21.5	4.1	2.7	0.38	Wasteland
Others	Leaves	21.5	3.7	2.5	0.34	Wasteland
Babul	Twigs	21.5	3.6	2.3	0.33	Wasteland
Babul	Bark	21.5	3.6	2.3	0.33	Wasteland
Babul	Branches	21.5	3.6	2.3	0.33	Wasteland
Others	Twigs	21.5	3.2	2.1	0.30	Wasteland
Others	Bark	21.5	3.2	2.1	0.30	Wasteland
Others	Branches	21.5	3.2	2.1	0.30	Wasteland
Eucalyptus	Leaves	21.5	3.1	2.0	0.29	Wasteland
Eucalyptus	Twigs	21.5	2.6	1.7	0.24	Wasteland
Eucalyptus	Bark	21.5	2.6	1.7	0.24	Wasteland
Eucalyptus	Branches	21.5	2.6	1.7	0.24	Wasteland
Shisham	Leaves	21.5	0.31	0.21	0.029	Wasteland
Shisham	Twigs	21.5	0.27	0.18	0.025	Wasteland
Shisham	Bark	21.5	0.27	0.18	0.025	Wasteland
Shisham	Branches	21.5	0.27	0.18	0.025	Wasteland
White Mulberry	Leaves	21.5	0.17	0.11	0.016	Wasteland
White Mulberry	Twigs	21.5	0.15	0.097	0.014	Wasteland
White Mulberry	Bark	21.5	0.15	0.097	0.014	Wasteland
White Mulberry	Branches	21.5	0.15	0.097	0.014	Wasteland
Chir Pine	Leaves	21.5	0.086	0.057	0.0080	Wasteland
Chir Pine	Twigs	21.5	0.074	0.049	0.0068	Wasteland
Chir Pine	Bark	21.5	0.074	0.049	0.0068	Wasteland
Chir Pine	Branches	21.5	0.074	0.049	0.0068	Wasteland
<b>Total</b>		<b>21.5</b>	<b>61.6</b>	<b>40.7</b>	<b>5.7</b>	

<b>District level Residue-wise Data for Gurdaspur; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	5.6	0.97	0.64	0.090	Wasteland
Catechu	Twigs	5.6	0.83	0.55	0.077	Wasteland
Catechu	Bark	5.6	0.83	0.55	0.077	Wasteland
Catechu	Branches	5.6	0.83	0.55	0.077	Wasteland
Babul	Leaves	5.6	0.70	0.46	0.065	Wasteland
Others	Leaves	5.6	0.63	0.42	0.059	Wasteland
Babul	Twigs	5.6	0.60	0.40	0.056	Wasteland
Babul	Bark	5.6	0.60	0.40	0.056	Wasteland
Babul	Branches	5.6	0.60	0.40	0.056	Wasteland
Others	Twigs	5.6	0.54	0.36	0.050	Wasteland
Others	Bark	5.6	0.54	0.36	0.050	Wasteland
Others	Branches	5.6	0.54	0.36	0.050	Wasteland
Eucalyptus	Leaves	5.6	0.53	0.35	0.049	Wasteland
Eucalyptus	Twigs	5.6	0.45	0.30	0.042	Wasteland
Eucalyptus	Bark	5.6	0.45	0.30	0.042	Wasteland
Eucalyptus	Branches	5.6	0.45	0.30	0.042	Wasteland
Shisham	Leaves	5.6	0.053	0.035	0.0049	Wasteland
Shisham	Twigs	5.6	0.045	0.030	0.0042	Wasteland
Shisham	Bark	5.6	0.045	0.030	0.0042	Wasteland
Shisham	Branches	5.6	0.045	0.030	0.0042	Wasteland
White Mulberry	Leaves	5.6	0.030	0.019	0.0027	Wasteland
White Mulberry	Twigs	5.6	0.025	0.017	0.0023	Wasteland
White Mulberry	Bark	5.6	0.025	0.017	0.0023	Wasteland
White Mulberry	Branches	5.6	0.025	0.017	0.0023	Wasteland
Chir Pine	Leaves	5.6	0.015	0.0097	0.0014	Wasteland
Chir Pine	Twigs	5.6	0.013	0.0083	0.0012	Wasteland
Chir Pine	Bark	5.6	0.013	0.0083	0.0012	Wasteland
Chir Pine	Branches	5.6	0.013	0.0083	0.0012	Wasteland
<b>Total</b>		<b>5.6</b>	<b>10.5</b>	<b>6.9</b>	<b>0.97</b>	

<b>District level Residue-wise Data for Hoshiarpur; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.37	0.056	0.037	0.0052	Wasteland
Catechu	Twigs	0.37	0.048	0.032	0.0044	Wasteland
Catechu	Bark	0.37	0.048	0.032	0.0044	Wasteland
Catechu	Branches	0.37	0.048	0.032	0.0044	Wasteland
Babul	Leaves	0.37	0.041	0.027	0.0038	Wasteland
Others	Leaves	0.37	0.037	0.024	0.0034	Wasteland
Babul	Twigs	0.37	0.035	0.023	0.0032	Wasteland
Babul	Bark	0.37	0.035	0.023	0.0032	Wasteland
Babul	Branches	0.37	0.035	0.023	0.0032	Wasteland
Others	Twigs	0.37	0.031	0.021	0.0029	Wasteland
Others	Bark	0.37	0.031	0.021	0.0029	Wasteland
Others	Branches	0.37	0.031	0.021	0.0029	Wasteland
Eucalyptus	Leaves	0.37	0.030	0.020	0.0028	Wasteland
Eucalyptus	Twigs	0.37	0.026	0.017	0.0024	Wasteland
Eucalyptus	Bark	0.37	0.026	0.017	0.0024	Wasteland
Eucalyptus	Branches	0.37	0.026	0.017	0.0024	Wasteland
Shisham	Leaves	0.37	0.0031	0.0020	0.00028	Wasteland
Shisham	Twigs	0.37	0.0026	0.0017	0.00024	Wasteland
Shisham	Bark	0.37	0.0026	0.0017	0.00024	Wasteland
Shisham	Branches	0.37	0.0026	0.0017	0.00024	Wasteland
White Mulberry	Leaves	0.37	0.0017	0.0011	0.00016	Wasteland
White Mulberry	Twigs	0.37	0.0015	0.00096	0.00013	Wasteland
White Mulberry	Bark	0.37	0.0015	0.00096	0.00013	Wasteland
White Mulberry	Branches	0.37	0.0015	0.00096	0.00013	Wasteland
Chir Pine	Leaves	0.37	0.00085	0.00056	7.84E-05	Wasteland
Chir Pine	Twigs	0.37	0.00073	0.00048	6.72E-05	Wasteland
Chir Pine	Bark	0.37	0.00073	0.00048	6.72E-05	Wasteland
Chir Pine	Branches	0.37	0.00073	0.00048	6.72E-05	Wasteland
<b>Total</b>		<b>0.37</b>	<b>0.61</b>	<b>0.40</b>	<b>0.056</b>	

<b>District level Residue-wise Data for Jalandhar; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.22	0.042	0.027	0.0038	Wasteland
Catechu	Twigs	0.22	0.036	0.024	0.0033	Wasteland
Catechu	Bark	0.22	0.036	0.024	0.0033	Wasteland
Catechu	Branches	0.22	0.036	0.024	0.0033	Wasteland
Babul	Leaves	0.22	0.030	0.020	0.0028	Wasteland
Others	Leaves	0.22	0.027	0.018	0.0025	Wasteland
Babul	Twigs	0.22	0.026	0.017	0.0024	Wasteland
Babul	Bark	0.22	0.026	0.017	0.0024	Wasteland
Babul	Branches	0.22	0.026	0.017	0.0024	Wasteland
Others	Twigs	0.22	0.023	0.015	0.0021	Wasteland
Others	Bark	0.22	0.023	0.015	0.0021	Wasteland
Others	Branches	0.22	0.023	0.015	0.0021	Wasteland
Eucalyptus	Leaves	0.22	0.022	0.015	0.0021	Wasteland
Eucalyptus	Twigs	0.22	0.019	0.013	0.0018	Wasteland
Eucalyptus	Bark	0.22	0.019	0.013	0.0018	Wasteland
Eucalyptus	Branches	0.22	0.019	0.013	0.0018	Wasteland
Shisham	Leaves	0.22	0.0023	0.0015	0.00021	Wasteland
Shisham	Twigs	0.22	0.0019	0.0013	0.00018	Wasteland
Shisham	Bark	0.22	0.0019	0.0013	0.00018	Wasteland
Shisham	Branches	0.22	0.0019	0.0013	0.00018	Wasteland
White Mulberry	Leaves	0.22	0.0013	0.00083	0.00012	Wasteland
White Mulberry	Twigs	0.22	0.0011	0.00071	9.92E-05	Wasteland
White Mulberry	Bark	0.22	0.0011	0.00071	9.92E-05	Wasteland
White Mulberry	Branches	0.22	0.0011	0.00071	9.92E-05	Wasteland
Chir Pine	Leaves	0.22	0.00063	0.00041	5.80E-05	Wasteland
Chir Pine	Twigs	0.22	0.00054	0.00036	4.97E-05	Wasteland
Chir Pine	Bark	0.22	0.00054	0.00036	4.97E-05	Wasteland
Chir Pine	Branches	0.22	0.00054	0.00036	4.97E-05	Wasteland
<b>Total</b>		<b>0.22</b>	<b>0.45</b>	<b>0.30</b>	<b>0.041</b>	



<b>District level Residue-wise Data for Kapurthala; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.4	0.24	0.16	0.023	Wasteland
Catechu	Twigs	1.4	0.21	0.14	0.019	Wasteland
Catechu	Bark	1.4	0.21	0.14	0.019	Wasteland
Catechu	Branches	1.4	0.21	0.14	0.019	Wasteland
Babul	Leaves	1.4	0.18	0.12	0.016	Wasteland
Others	Leaves	1.4	0.16	0.11	0.015	Wasteland
Babul	Twigs	1.4	0.15	0.10	0.014	Wasteland
Babul	Bark	1.4	0.15	0.10	0.014	Wasteland
Babul	Branches	1.4	0.15	0.10	0.014	Wasteland
Others	Twigs	1.4	0.14	0.090	0.013	Wasteland
Others	Bark	1.4	0.14	0.090	0.013	Wasteland
Others	Branches	1.4	0.14	0.090	0.013	Wasteland
Eucalyptus	Leaves	1.4	0.13	0.087	0.012	Wasteland
Eucalyptus	Twigs	1.4	0.11	0.075	0.010	Wasteland
Eucalyptus	Bark	1.4	0.11	0.075	0.010	Wasteland
Eucalyptus	Branches	1.4	0.11	0.075	0.010	Wasteland
Shisham	Leaves	1.4	0.013	0.0088	0.0012	Wasteland
Shisham	Twigs	1.4	0.011	0.0075	0.0011	Wasteland
Shisham	Bark	1.4	0.011	0.0075	0.0011	Wasteland
Shisham	Branches	1.4	0.011	0.0075	0.0011	Wasteland
White Mulberry	Leaves	1.4	0.0074	0.0049	0.00069	Wasteland
White Mulberry	Twigs	1.4	0.0063	0.0042	0.00058	Wasteland
White Mulberry	Bark	1.4	0.0063	0.0042	0.00058	Wasteland
White Mulberry	Branches	1.4	0.0063	0.0042	0.00058	Wasteland
Chir Pine	Leaves	1.4	0.0037	0.0024	0.00034	Wasteland
Chir Pine	Twigs	1.4	0.0032	0.0021	0.00029	Wasteland
Chir Pine	Bark	1.4	0.0032	0.0021	0.00029	Wasteland
Chir Pine	Branches	1.4	0.0032	0.0021	0.00029	Wasteland
<b>Total</b>		<b>1.4</b>	<b>2.6</b>	<b>1.7</b>	<b>0.24</b>	

<b>District level Residue-wise Data for Ludhiana; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.9	0.29	0.19	0.026	Wasteland
Catechu	Twigs	1.9	0.25	0.16	0.023	Wasteland
Catechu	Bark	1.9	0.25	0.16	0.023	Wasteland
Catechu	Branches	1.9	0.25	0.16	0.023	Wasteland
Babul	Leaves	1.9	0.21	0.14	0.019	Wasteland
Others	Leaves	1.9	0.19	0.12	0.017	Wasteland
Babul	Twigs	1.9	0.18	0.12	0.016	Wasteland
Babul	Bark	1.9	0.18	0.12	0.016	Wasteland
Babul	Branches	1.9	0.18	0.12	0.016	Wasteland
Others	Twigs	1.9	0.16	0.11	0.015	Wasteland
Others	Bark	1.9	0.16	0.11	0.015	Wasteland
Others	Branches	1.9	0.16	0.11	0.015	Wasteland
Eucalyptus	Leaves	1.9	0.15	0.10	0.014	Wasteland
Eucalyptus	Twigs	1.9	0.13	0.088	0.012	Wasteland
Eucalyptus	Bark	1.9	0.13	0.088	0.012	Wasteland
Eucalyptus	Branches	1.9	0.13	0.088	0.012	Wasteland
Shisham	Leaves	1.9	0.016	0.010	0.0014	Wasteland
Shisham	Twigs	1.9	0.013	0.0088	0.0012	Wasteland
Shisham	Bark	1.9	0.013	0.0088	0.0012	Wasteland
Shisham	Branches	1.9	0.013	0.0088	0.0012	Wasteland
White Mulberry	Leaves	1.9	0.0087	0.0057	0.00080	Wasteland
White Mulberry	Twigs	1.9	0.0074	0.0049	0.00068	Wasteland
White Mulberry	Bark	1.9	0.0074	0.0049	0.00068	Wasteland
White Mulberry	Branches	1.9	0.0074	0.0049	0.00068	Wasteland
Chir Pine	Leaves	1.9	0.0043	0.0029	0.00040	Wasteland
Chir Pine	Twigs	1.9	0.0037	0.0024	0.00034	Wasteland
Chir Pine	Bark	1.9	0.0037	0.0024	0.00034	Wasteland
Chir Pine	Branches	1.9	0.0037	0.0024	0.00034	Wasteland
<b>Total</b>		<b>1.9</b>	<b>3.1</b>	<b>2.0</b>	<b>0.29</b>	

<b>District level Residue-wise Data for Mansa; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	2.8	0.43	0.29	0.040	Wasteland
Catechu	Twigs	2.8	0.37	0.24	0.034	Wasteland
Catechu	Bark	2.8	0.37	0.24	0.034	Wasteland
Catechu	Branches	2.8	0.37	0.24	0.034	Wasteland
Babul	Leaves	2.8	0.31	0.21	0.029	Wasteland
Others	Leaves	2.8	0.28	0.19	0.026	Wasteland
Babul	Twigs	2.8	0.27	0.18	0.025	Wasteland
Babul	Bark	2.8	0.27	0.18	0.025	Wasteland
Babul	Branches	2.8	0.27	0.18	0.025	Wasteland
Others	Twigs	2.8	0.24	0.16	0.022	Wasteland
Others	Bark	2.8	0.24	0.16	0.022	Wasteland
Others	Branches	2.8	0.24	0.16	0.022	Wasteland
Eucalyptus	Leaves	2.8	0.23	0.15	0.022	Wasteland
Eucalyptus	Twigs	2.8	0.20	0.13	0.019	Wasteland
Eucalyptus	Bark	2.8	0.20	0.13	0.019	Wasteland
Eucalyptus	Branches	2.8	0.20	0.13	0.019	Wasteland
Shisham	Leaves	2.8	0.024	0.016	0.0022	Wasteland
Shisham	Twigs	2.8	0.020	0.013	0.0019	Wasteland
Shisham	Bark	2.8	0.020	0.013	0.0019	Wasteland
Shisham	Branches	2.8	0.020	0.013	0.0019	Wasteland
White Mulberry	Leaves	2.8	0.013	0.0087	0.0012	Wasteland
White Mulberry	Twigs	2.8	0.011	0.0074	0.0010	Wasteland
White Mulberry	Bark	2.8	0.011	0.0074	0.0010	Wasteland
White Mulberry	Branches	2.8	0.011	0.0074	0.0010	Wasteland
Chir Pine	Leaves	2.8	0.0065	0.0043	0.00060	Wasteland
Chir Pine	Twigs	2.8	0.0056	0.0037	0.00052	Wasteland
Chir Pine	Bark	2.8	0.0056	0.0037	0.00052	Wasteland
Chir Pine	Branches	2.8	0.0056	0.0037	0.00052	Wasteland
<b>Total</b>		<b>2.8</b>	<b>4.7</b>	<b>3.1</b>	<b>0.43</b>	

<b>District level Residue-wise Data for Muktsar; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	4.7	0.73	0.48	0.067	Wasteland
Catechu	Twigs	4.7	0.62	0.41	0.058	Wasteland
Catechu	Bark	4.7	0.62	0.41	0.058	Wasteland
Catechu	Branches	4.7	0.62	0.41	0.058	Wasteland
Babul	Leaves	4.7	0.53	0.35	0.049	Wasteland
Others	Leaves	4.7	0.47	0.31	0.044	Wasteland
Babul	Twigs	4.7	0.45	0.30	0.042	Wasteland
Babul	Bark	4.7	0.45	0.30	0.042	Wasteland
Babul	Branches	4.7	0.45	0.30	0.042	Wasteland
Others	Twigs	4.7	0.41	0.27	0.038	Wasteland
Others	Bark	4.7	0.41	0.27	0.038	Wasteland
Others	Branches	4.7	0.41	0.27	0.038	Wasteland
Eucalyptus	Leaves	4.7	0.39	0.26	0.036	Wasteland
Eucalyptus	Twigs	4.7	0.34	0.22	0.031	Wasteland
Eucalyptus	Bark	4.7	0.34	0.22	0.031	Wasteland
Eucalyptus	Branches	4.7	0.34	0.22	0.031	Wasteland
Shisham	Leaves	4.7	0.040	0.026	0.0037	Wasteland
Shisham	Twigs	4.7	0.034	0.022	0.0031	Wasteland
Shisham	Bark	4.7	0.034	0.022	0.0031	Wasteland
Shisham	Branches	4.7	0.034	0.022	0.0031	Wasteland
White Mulberry	Leaves	4.7	0.022	0.015	0.0020	Wasteland
White Mulberry	Twigs	4.7	0.019	0.012	0.0017	Wasteland
White Mulberry	Bark	4.7	0.019	0.012	0.0017	Wasteland
White Mulberry	Branches	4.7	0.019	0.012	0.0017	Wasteland
Chir Pine	Leaves	4.7	0.011	0.0073	0.0010	Wasteland
Chir Pine	Twigs	4.7	0.0094	0.0062	0.00087	Wasteland
Chir Pine	Bark	4.7	0.0094	0.0062	0.00087	Wasteland
Chir Pine	Branches	4.7	0.0094	0.0062	0.00087	Wasteland
<b>Total</b>		<b>4.7</b>	<b>7.8</b>	<b>5.2</b>	<b>0.72</b>	

<b>District level Residue-wise Data for Nawanshahr; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.30	0.047	0.031	0.0043	Wasteland
Catechu	Twigs	0.30	0.040	0.026	0.0037	Wasteland
Catechu	Bark	0.30	0.040	0.026	0.0037	Wasteland
Catechu	Branches	0.30	0.040	0.026	0.0037	Wasteland
Babul	Leaves	0.30	0.034	0.022	0.0031	Wasteland
Others	Leaves	0.30	0.030	0.020	0.0028	Wasteland
Babul	Twigs	0.30	0.029	0.019	0.0027	Wasteland
Babul	Bark	0.30	0.029	0.019	0.0027	Wasteland
Babul	Branches	0.30	0.029	0.019	0.0027	Wasteland
Others	Twigs	0.30	0.026	0.017	0.0024	Wasteland
Others	Bark	0.30	0.026	0.017	0.0024	Wasteland
Others	Branches	0.30	0.026	0.017	0.0024	Wasteland
Eucalyptus	Leaves	0.30	0.025	0.017	0.0023	Wasteland
Eucalyptus	Twigs	0.30	0.022	0.014	0.0020	Wasteland
Eucalyptus	Bark	0.30	0.022	0.014	0.0020	Wasteland
Eucalyptus	Branches	0.30	0.022	0.014	0.0020	Wasteland
Shisham	Leaves	0.30	0.0025	0.0017	0.00023	Wasteland
Shisham	Twigs	0.30	0.0022	0.0014	0.00020	Wasteland
Shisham	Bark	0.30	0.0022	0.0014	0.00020	Wasteland
Shisham	Branches	0.30	0.0022	0.0014	0.00020	Wasteland
White Mulberry	Leaves	0.30	0.0014	0.00093	0.00013	Wasteland
White Mulberry	Twigs	0.30	0.0012	0.00079	0.00011	Wasteland
White Mulberry	Bark	0.30	0.0012	0.00079	0.00011	Wasteland
White Mulberry	Branches	0.30	0.0012	0.00079	0.00011	Wasteland
Chir Pine	Leaves	0.30	0.00070	0.00046	6.50E-05	Wasteland
Chir Pine	Twigs	0.30	0.00060	0.00040	5.57E-05	Wasteland
Chir Pine	Bark	0.30	0.00060	0.00040	5.57E-05	Wasteland
Chir Pine	Branches	0.30	0.00060	0.00040	5.57E-05	Wasteland
<b>Total</b>		<b>0.30</b>	<b>0.50</b>	<b>0.33</b>	<b>0.046</b>	

<b>District level Residue-wise Data for Patiala; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.72	0.16	0.11	0.015	Wasteland
Catechu	Twigs	0.72	0.14	0.090	0.013	Wasteland
Catechu	Bark	0.72	0.14	0.090	0.013	Wasteland
Catechu	Branches	0.72	0.14	0.090	0.013	Wasteland
Babul	Leaves	0.72	0.12	0.076	0.011	Wasteland
Others	Leaves	0.72	0.10	0.069	0.0096	Wasteland
Babul	Twigs	0.72	0.099	0.065	0.0091	Wasteland
Babul	Bark	0.72	0.099	0.065	0.0091	Wasteland
Babul	Branches	0.72	0.099	0.065	0.0091	Wasteland
Others	Twigs	0.72	0.089	0.059	0.0082	Wasteland
Others	Bark	0.72	0.089	0.059	0.0082	Wasteland
Others	Branches	0.72	0.089	0.059	0.0082	Wasteland
Eucalyptus	Leaves	0.72	0.086	0.057	0.0080	Wasteland
Eucalyptus	Twigs	0.72	0.074	0.049	0.0068	Wasteland
Eucalyptus	Bark	0.72	0.074	0.049	0.0068	Wasteland
Eucalyptus	Branches	0.72	0.074	0.049	0.0068	Wasteland
Shisham	Leaves	0.72	0.0087	0.0057	0.00080	Wasteland
Shisham	Twigs	0.72	0.0074	0.0049	0.00069	Wasteland
Shisham	Bark	0.72	0.0074	0.0049	0.00069	Wasteland
Shisham	Branches	0.72	0.0074	0.0049	0.00069	Wasteland
White Mulberry	Leaves	0.72	0.0048	0.0032	0.00045	Wasteland
White Mulberry	Twigs	0.72	0.0041	0.0027	0.00038	Wasteland
White Mulberry	Bark	0.72	0.0041	0.0027	0.00038	Wasteland
White Mulberry	Branches	0.72	0.0041	0.0027	0.00038	Wasteland
Chir Pine	Leaves	0.72	0.0024	0.0016	0.00022	Wasteland
Chir Pine	Twigs	0.72	0.0021	0.0014	0.00019	Wasteland
Chir Pine	Bark	0.72	0.0021	0.0014	0.00019	Wasteland
Chir Pine	Branches	0.72	0.0021	0.0014	0.00019	Wasteland
<b>Total</b>		<b>0.72</b>	<b>1.7</b>	<b>1.1</b>	<b>0.16</b>	

<b>District level Residue-wise Data for Rupnagar; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.8	0.39	0.26	0.036	Wasteland
Catechu	Twigs	1.8	0.33	0.22	0.031	Wasteland
Catechu	Bark	1.8	0.33	0.22	0.031	Wasteland
Catechu	Branches	1.8	0.33	0.22	0.031	Wasteland
Babul	Leaves	1.8	0.28	0.19	0.026	Wasteland
Others	Leaves	1.8	0.25	0.17	0.024	Wasteland
Babul	Twigs	1.8	0.24	0.16	0.022	Wasteland
Babul	Bark	1.8	0.24	0.16	0.022	Wasteland
Babul	Branches	1.8	0.24	0.16	0.022	Wasteland
Others	Twigs	1.8	0.22	0.14	0.020	Wasteland
Others	Bark	1.8	0.22	0.14	0.020	Wasteland
Others	Branches	1.8	0.22	0.14	0.020	Wasteland
Eucalyptus	Leaves	1.8	0.21	0.14	0.020	Wasteland
Eucalyptus	Twigs	1.8	0.18	0.12	0.017	Wasteland
Eucalyptus	Bark	1.8	0.18	0.12	0.017	Wasteland
Eucalyptus	Branches	1.8	0.18	0.12	0.017	Wasteland
Shisham	Leaves	1.8	0.021	0.014	0.0020	Wasteland
Shisham	Twigs	1.8	0.018	0.012	0.0017	Wasteland
Shisham	Bark	1.8	0.018	0.012	0.0017	Wasteland
Shisham	Branches	1.8	0.018	0.012	0.0017	Wasteland
White Mulberry	Leaves	1.8	0.012	0.0078	0.0011	Wasteland
White Mulberry	Twigs	1.8	0.010	0.0067	0.00093	Wasteland
White Mulberry	Bark	1.8	0.010	0.0067	0.00093	Wasteland
White Mulberry	Branches	1.8	0.010	0.0067	0.00093	Wasteland
Chir Pine	Leaves	1.8	0.0059	0.0039	0.00055	Wasteland
Chir Pine	Twigs	1.8	0.0051	0.0033	0.00047	Wasteland
Chir Pine	Bark	1.8	0.0051	0.0033	0.00047	Wasteland
Chir Pine	Branches	1.8	0.0051	0.0033	0.00047	Wasteland
<b>Total</b>		<b>1.8</b>	<b>4.2</b>	<b>2.8</b>	<b>0.39</b>	

<b>District level Residue-wise Data for Sangrur; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.26	0.068	0.045	0.0063	Wasteland
Catechu	Twigs	0.26	0.058	0.039	0.0054	Wasteland
Catechu	Bark	0.26	0.058	0.039	0.0054	Wasteland
Catechu	Branches	0.26	0.058	0.039	0.0054	Wasteland
Babul	Leaves	0.26	0.049	0.033	0.0046	Wasteland
Others	Leaves	0.26	0.045	0.029	0.0041	Wasteland
Babul	Twigs	0.26	0.042	0.028	0.0039	Wasteland
Babul	Bark	0.26	0.042	0.028	0.0039	Wasteland
Babul	Branches	0.26	0.042	0.028	0.0039	Wasteland
Others	Twigs	0.26	0.038	0.025	0.0035	Wasteland
Others	Bark	0.26	0.038	0.025	0.0035	Wasteland
Others	Branches	0.26	0.038	0.025	0.0035	Wasteland
Eucalyptus	Leaves	0.26	0.037	0.024	0.0034	Wasteland
Eucalyptus	Twigs	0.26	0.032	0.021	0.0029	Wasteland
Eucalyptus	Bark	0.26	0.032	0.021	0.0029	Wasteland
Eucalyptus	Branches	0.26	0.032	0.021	0.0029	Wasteland
Shisham	Leaves	0.26	0.0037	0.0024	0.00034	Wasteland
Shisham	Twigs	0.26	0.0032	0.0021	0.00029	Wasteland
Shisham	Bark	0.26	0.0032	0.0021	0.00029	Wasteland
Shisham	Branches	0.26	0.0032	0.0021	0.00029	Wasteland
White Mulberry	Leaves	0.26	0.0021	0.0014	0.00019	Wasteland
White Mulberry	Twigs	0.26	0.0018	0.0012	0.00016	Wasteland
White Mulberry	Bark	0.26	0.0018	0.0012	0.00016	Wasteland
White Mulberry	Branches	0.26	0.0018	0.0012	0.00016	Wasteland
Chir Pine	Leaves	0.26	0.0010	0.00068	9.52E-05	Wasteland
Chir Pine	Twigs	0.26	0.00088	0.00058	8.16E-05	Wasteland
Chir Pine	Bark	0.26	0.00088	0.00058	8.16E-05	Wasteland
Chir Pine	Branches	0.26	0.00088	0.00058	8.16E-05	Wasteland
<b>Total</b>		<b>0.26</b>	<b>0.74</b>	<b>0.49</b>	<b>0.068</b>	



## District Level Taluk Wise

<b>DistrictLevel Taluk-wise Data for Amritsar ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Ajnala	1.6	2.7	1.8	0.25
Patti	0.48	1.6	1.0	0.15
Khadur Sahib	0.23	0.37	0.25	0.034
Amristar-I	0.22	0.37	0.24	0.034
Tarn-Taran	0.11	0.18	0.12	0.017
Baba Bakala	0.10	0.17	0.11	0.015
<b>Total</b>		<b>2.8</b>	<b>5.4</b>	<b>3.5</b>

<b>DistrictLevel Taluk-wise Data for Bathinda ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Bathinda	3.5	5.7	3.8	0.53
Talwandi Sabo	2.7	4.5	2.9	0.41
Rampura Phul	0.24	0.78	0.51	0.072
<b>Total</b>		<b>6.4</b>	<b>11.0</b>	<b>7.3</b>

<b>DistrictLevel Taluk-wise Data for Faridkot ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Jaitu	0.089	0.29	0.19	0.027
Faridkot	0.036	0.060	0.039	0.0055
<b>Total</b>		<b>0.13</b>	<b>0.35</b>	<b>0.23</b>

<b>DistrictLevel Taluk-wise Data for Fatehgarh Sahib ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Amlloh	0.11	0.19	0.12	0.017
<b>Total</b>		<b>0.11</b>	<b>0.19</b>	<b>0.12</b>

<b>DistrictLevel Taluk-wise Data for Firozpur ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Abohar	15.8	52.1	34.4	4.8
Fazilka	3.1	5.0	3.3	0.47
Firozpur	1.3	2.1	1.4	0.20
Jalalabad	1.2	2.1	1.4	0.19
Zira	0.17	0.28	0.18	0.026
<b>Total</b>		<b>21.5</b>	<b>61.6</b>	<b>40.7</b>

<b>DistrictLevel Taluk-wise Data for Gurdaspur ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Pathankot	4.2	6.9	4.6	0.64
Gurdaspur	0.75	2.5	1.6	0.23
Dera Baba Nanak	0.47	0.78	0.52	0.072
Dhar Kalan	0.15	0.24	0.16	0.023
Batala	0.044	0.073	0.048	0.0067
<b>Total</b>		<b>5.6</b>	<b>10.5</b>	<b>6.9</b>

<b>DistrictLevel Taluk-wise Data for Hoshiarpur ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Hoshiarpur	0.17	0.29	0.19	0.026
Mukerian	0.16	0.26	0.17	0.024
Dasua	0.035	0.058	0.039	0.0054
<b>Total</b>		<b>0.37</b>	<b>0.61</b>	<b>0.40</b>

**DistrictLevel Taluk-wise Data for Jalandhar ; Biomass  
Class : Wasteland**

Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Jalandhar-Ii	0.099	0.16	0.11	0.015
Phillaur	0.048	0.16	0.10	0.015
Nakodar	0.038	0.063	0.042	0.0059
Jalandhar-I	0.038	0.063	0.042	0.0059
<b>Total</b>		<b>0.22</b>	<b>0.45</b>	<b>0.30</b>

**DistrictLevel Taluk-wise Data for Kapurthala ; Biomass  
Class : Wasteland**

Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Kapurthala	1.1	1.9	1.2	0.17
Sultanpur Lodhi	0.19	0.63	0.41	0.058
Bhulath	0.085	0.14	0.093	0.013
<b>Total</b>		<b>1.4</b>	<b>2.6</b>	<b>1.7</b>

**DistrictLevel Taluk-wise Data for Ludhiana ; Biomass  
Class : Wasteland**

Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Ludhiana(East)	0.95	1.6	1.0	0.15
Ludhiana(West)	0.58	0.97	0.64	0.089
Jagraon	0.17	0.29	0.19	0.026
Samrala	0.16	0.26	0.17	0.024
<b>Total</b>		<b>1.9</b>	<b>3.1</b>	<b>2.0</b>

**DistrictLevel Taluk-wise Data for Mansa ; Biomass  
Class : Wasteland**

Taluk	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)
Sardulgarh	1.9	3.1	2.1	0.29
Mansa	0.54	0.89	0.59	0.082
Budhlada	0.40	0.67	0.44	0.062
<b>Total</b>		<b>2.8</b>	<b>4.7</b>	<b>3.1</b>

<b>DistrictLevel Taluk-wise Data for Muktsar ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Malout	3.0	4.9	3.2	0.45
Giddarbaha	1.1	1.8	1.2	0.17
Muktsar	0.72	1.2	0.78	0.11
<b>Total</b>		<b>4.7</b>	<b>7.8</b>	<b>5.2</b>

<b>DistrictLevel Taluk-wise Data for Nawanshahr ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Nawanshahr	0.18	0.30	0.20	0.028
Balachaur	0.12	0.20	0.13	0.019
<b>Total</b>		<b>0.30</b>	<b>0.50</b>	<b>0.33</b>

<b>DistrictLevel Taluk-wise Data for Patiala ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Patiala	0.32	1.0	0.69	0.096
Dera Bassi	0.40	0.65	0.43	0.060
Samana	0.012	0.020	0.013	0.0019
<b>Total</b>		<b>0.72</b>	<b>1.7</b>	<b>1.1</b>

<b>DistrictLevel Taluk-wise Data for Rupnagar ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Rupnagar	0.79	2.6	1.7	0.24
Anandpur Sahib	0.51	0.84	0.56	0.078
S.A.S.Nagar(Mohali)	0.45	0.75	0.49	0.069
<b>Total</b>		<b>1.8</b>	<b>4.2</b>	<b>2.8</b>

<b>DistrictLevel Taluk-wise Data for Sangrur ; Biomass Class : Wasteland</b>				
<b>Taluk</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>
Sangrur	0.19	0.63	0.41	0.058
Barnala	0.037	0.061	0.040	0.0056
Sunam	0.029	0.048	0.031	0.0044
<b>Total</b>		<b>0.26</b>	<b>0.74</b>	<b>0.49</b>

### Taluk Level Residue Wise

<b>Taluk level Residue-wise Data for Ajnala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.6	0.25	0.16	0.023	Wasteland
Catechu	Twigs	1.6	0.21	0.14	0.020	Wasteland
Catechu	Bark	1.6	0.21	0.14	0.020	Wasteland
Catechu	Branches	1.6	0.21	0.14	0.020	Wasteland
Babul	Leaves	1.6	0.18	0.12	0.017	Wasteland
Others	Leaves	1.6	0.16	0.11	0.015	Wasteland
Babul	Twigs	1.6	0.16	0.10	0.014	Wasteland
Babul	Bark	1.6	0.16	0.10	0.014	Wasteland
Babul	Branches	1.6	0.16	0.10	0.014	Wasteland
Others	Twigs	1.6	0.14	0.092	0.013	Wasteland
Others	Bark	1.6	0.14	0.092	0.013	Wasteland
Others	Branches	1.6	0.14	0.092	0.013	Wasteland
Eucalyptus	Leaves	1.6	0.14	0.089	0.012	Wasteland
Eucalyptus	Twigs	1.6	0.12	0.076	0.011	Wasteland
Eucalyptus	Bark	1.6	0.12	0.076	0.011	Wasteland
Eucalyptus	Branches	1.6	0.12	0.076	0.011	Wasteland
Shisham	Leaves	1.6	0.014	0.0090	0.0013	Wasteland
Shisham	Twigs	1.6	0.012	0.0077	0.0011	Wasteland
Shisham	Bark	1.6	0.012	0.0077	0.0011	Wasteland
Shisham	Branches	1.6	0.012	0.0077	0.0011	Wasteland
White Mulberry	Leaves	1.6	0.0076	0.0050	0.00070	Wasteland
White Mulberry	Twigs	1.6	0.0065	0.0043	0.00060	Wasteland
White Mulberry	Bark	1.6	0.0065	0.0043	0.00060	Wasteland

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
White Mulberry	Branches	1.6	0.0065	0.0043	0.00060	Wasteland
Chir Pine	Leaves	1.6	0.0038	0.0025	0.00035	Wasteland
Chir Pine	Twigs	1.6	0.0032	0.0021	0.00030	Wasteland
Chir Pine	Bark	1.6	0.0032	0.0021	0.00030	Wasteland
Chir Pine	Branches	1.6	0.0032	0.0021	0.00030	Wasteland
<b>Total</b>		<b>1.6</b>	<b>2.7</b>	<b>1.8</b>	<b>0.25</b>	

<b>Taluk level Residue-wise Data for Amristar-I ; Biomass Class : Wasteland</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.22	0.034	0.023	0.0032	Wasteland
Catechu	Twigs	0.22	0.029	0.019	0.0027	Wasteland
Catechu	Bark	0.22	0.029	0.019	0.0027	Wasteland
Catechu	Branches	0.22	0.029	0.019	0.0027	Wasteland
Babul	Leaves	0.22	0.025	0.016	0.0023	Wasteland
Others	Leaves	0.22	0.022	0.015	0.0021	Wasteland
Babul	Twigs	0.22	0.021	0.014	0.0020	Wasteland
Babul	Bark	0.22	0.021	0.014	0.0020	Wasteland
Babul	Branches	0.22	0.021	0.014	0.0020	Wasteland
Others	Twigs	0.22	0.019	0.013	0.0018	Wasteland
Others	Bark	0.22	0.019	0.013	0.0018	Wasteland
Others	Branches	0.22	0.019	0.013	0.0018	Wasteland
Eucalyptus	Leaves	0.22	0.019	0.012	0.0017	Wasteland
Eucalyptus	Twigs	0.22	0.016	0.011	0.0015	Wasteland
Eucalyptus	Bark	0.22	0.016	0.011	0.0015	Wasteland
Eucalyptus	Branches	0.22	0.016	0.011	0.0015	Wasteland
Shisham	Leaves	0.22	0.0019	0.0012	0.00017	Wasteland
Shisham	Twigs	0.22	0.0016	0.0011	0.00015	Wasteland
Shisham	Bark	0.22	0.0016	0.0011	0.00015	Wasteland
Shisham	Branches	0.22	0.0016	0.0011	0.00015	Wasteland
White Mulberry	Leaves	0.22	0.0010	0.00069	9.64E-05	Wasteland
White Mulberry	Twigs	0.22	0.00089	0.00059	8.20E-05	Wasteland
White Mulberry	Bark	0.22	0.00089	0.00059	8.20E-05	Wasteland
White Mulberry	Branches	0.22	0.00089	0.00059	8.20E-05	Wasteland
Chir Pine	Leaves	0.22	0.00052	0.00034	4.79E-05	Wasteland

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Chir Pine	Twigs	0.22	0.00044	0.00029	4.11E-05	Wasteland
Chir Pine	Bark	0.22	0.00044	0.00029	4.11E-05	Wasteland
Chir Pine	Branches	0.22	0.00044	0.00029	4.11E-05	Wasteland
<b>Total</b>		<b>0.22</b>	<b>0.37</b>	<b>0.24</b>	<b>0.034</b>	

**Taluk level Residue-wise Data for Baba Bakala ; Biomass Class :  
Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.10	0.015	0.010	0.0014	Wasteland
Catechu	Twigs	0.10	0.013	0.0087	0.0012	Wasteland
Catechu	Bark	0.10	0.013	0.0087	0.0012	Wasteland
Catechu	Branches	0.10	0.013	0.0087	0.0012	Wasteland
Babul	Leaves	0.10	0.011	0.0074	0.0010	Wasteland
Others	Leaves	0.10	0.010	0.0066	0.00093	Wasteland
Babul	Twigs	0.10	0.0096	0.0063	0.00089	Wasteland
Babul	Bark	0.10	0.0096	0.0063	0.00089	Wasteland
Babul	Branches	0.10	0.0096	0.0063	0.00089	Wasteland
Others	Twigs	0.10	0.0086	0.0057	0.00080	Wasteland
Others	Bark	0.10	0.0086	0.0057	0.00080	Wasteland
Others	Branches	0.10	0.0086	0.0057	0.00080	Wasteland
Eucalyptus	Leaves	0.10	0.0083	0.0055	0.00077	Wasteland
Eucalyptus	Twigs	0.10	0.0071	0.0047	0.00066	Wasteland
Eucalyptus	Bark	0.10	0.0071	0.0047	0.00066	Wasteland
Eucalyptus	Branches	0.10	0.0071	0.0047	0.00066	Wasteland
Shisham	Leaves	0.10	0.00084	0.00055	7.75E-05	Wasteland
Shisham	Twigs	0.10	0.00072	0.00047	6.64E-05	Wasteland
Shisham	Bark	0.10	0.00072	0.00047	6.64E-05	Wasteland
Shisham	Branches	0.10	0.00072	0.00047	6.64E-05	Wasteland
White Mulberry	Leaves	0.10	0.00047	0.00031	4.33E-05	Wasteland
White Mulberry	Twigs	0.10	0.00040	0.00026	3.68E-05	Wasteland
White Mulberry	Bark	0.10	0.00040	0.00026	3.68E-05	Wasteland
White Mulberry	Branches	0.10	0.00040	0.00026	3.68E-05	Wasteland
Chir Pine	Leaves	0.10	0.00023	0.00015	2.15E-05	Wasteland
Chir Pine	Twigs	0.10	0.00020	0.00013	1.84E-05	Wasteland
Chir Pine	Bark	0.10	0.00020	0.00013	1.84E-05	Wasteland

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Chir Pine	Branches	0.10	0.00020	0.00013	1.84E-05	Wasteland
<b>Total</b>		<b>0.10</b>	<b>0.17</b>	<b>0.11</b>	<b>0.015</b>	

<b>Taluk level Residue-wise Data for Khadur Sahib ; Biomass Class : Wasteland</b>						
Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.23	0.035	0.023	0.0032	Wasteland
Catechu	Twigs	0.23	0.030	0.020	0.0027	Wasteland
Catechu	Bark	0.23	0.030	0.020	0.0027	Wasteland
Catechu	Branches	0.23	0.030	0.020	0.0027	Wasteland
Babul	Leaves	0.23	0.025	0.017	0.0023	Wasteland
Others	Leaves	0.23	0.023	0.015	0.0021	Wasteland
Babul	Twigs	0.23	0.021	0.014	0.0020	Wasteland
Babul	Bark	0.23	0.021	0.014	0.0020	Wasteland
Babul	Branches	0.23	0.021	0.014	0.0020	Wasteland
Others	Twigs	0.23	0.019	0.013	0.0018	Wasteland
Others	Bark	0.23	0.019	0.013	0.0018	Wasteland
Others	Branches	0.23	0.019	0.013	0.0018	Wasteland
Eucalyptus	Leaves	0.23	0.019	0.012	0.0017	Wasteland
Eucalyptus	Twigs	0.23	0.016	0.011	0.0015	Wasteland
Eucalyptus	Bark	0.23	0.016	0.011	0.0015	Wasteland
Eucalyptus	Branches	0.23	0.016	0.011	0.0015	Wasteland
Shisham	Leaves	0.23	0.0019	0.0012	0.00017	Wasteland
Shisham	Twigs	0.23	0.0016	0.0011	0.00015	Wasteland
Shisham	Bark	0.23	0.0016	0.0011	0.00015	Wasteland
Shisham	Branches	0.23	0.0016	0.0011	0.00015	Wasteland
White Mulberry	Leaves	0.23	0.0011	0.00069	9.70E-05	Wasteland
White Mulberry	Twigs	0.23	0.00089	0.00059	8.26E-05	Wasteland
White Mulberry	Bark	0.23	0.00089	0.00059	8.26E-05	Wasteland
White Mulberry	Branches	0.23	0.00089	0.00059	8.26E-05	Wasteland
Chir Pine	Leaves	0.23	0.00052	0.00034	4.83E-05	Wasteland
Chir Pine	Twigs	0.23	0.00045	0.00030	4.14E-05	Wasteland
Chir Pine	Bark	0.23	0.00045	0.00030	4.14E-05	Wasteland
Chir Pine	Branches	0.23	0.00045	0.00030	4.14E-05	Wasteland
<b>Total</b>		<b>0.23</b>	<b>0.37</b>	<b>0.25</b>	<b>0.034</b>	



<b>Taluk level Residue-wise Data for Patti ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.48	0.15	0.097	0.014	Wasteland
Catechu	Twigs	0.48	0.13	0.083	0.012	Wasteland
Catechu	Bark	0.48	0.13	0.083	0.012	Wasteland
Catechu	Branches	0.48	0.13	0.083	0.012	Wasteland
Babul	Leaves	0.48	0.11	0.071	0.0099	Wasteland
Others	Leaves	0.48	0.096	0.064	0.0089	Wasteland
Babul	Twigs	0.48	0.092	0.060	0.0085	Wasteland
Babul	Bark	0.48	0.092	0.060	0.0085	Wasteland
Babul	Branches	0.48	0.092	0.060	0.0085	Wasteland
Others	Twigs	0.48	0.082	0.054	0.0076	Wasteland
Others	Bark	0.48	0.082	0.054	0.0076	Wasteland
Others	Branches	0.48	0.082	0.054	0.0076	Wasteland
Eucalyptus	Leaves	0.48	0.080	0.053	0.0074	Wasteland
Eucalyptus	Twigs	0.48	0.068	0.045	0.0063	Wasteland
Eucalyptus	Bark	0.48	0.068	0.045	0.0063	Wasteland
Eucalyptus	Branches	0.48	0.068	0.045	0.0063	Wasteland
Shisham	Leaves	0.48	0.0080	0.0053	0.00074	Wasteland
Shisham	Twigs	0.48	0.0069	0.0045	0.00064	Wasteland
Shisham	Bark	0.48	0.0069	0.0045	0.00064	Wasteland
Shisham	Branches	0.48	0.0069	0.0045	0.00064	Wasteland
White Mulberry	Leaves	0.48	0.0045	0.0030	0.00041	Wasteland
White Mulberry	Twigs	0.48	0.0038	0.0025	0.00035	Wasteland
White Mulberry	Bark	0.48	0.0038	0.0025	0.00035	Wasteland
White Mulberry	Branches	0.48	0.0038	0.0025	0.00035	Wasteland
Chir Pine	Leaves	0.48	0.0022	0.0015	0.00021	Wasteland
Chir Pine	Twigs	0.48	0.0019	0.0013	0.00018	Wasteland
Chir Pine	Bark	0.48	0.0019	0.0013	0.00018	Wasteland
Chir Pine	Branches	0.48	0.0019	0.0013	0.00018	Wasteland
<b>Total</b>		<b>0.48</b>	<b>1.6</b>	<b>1.0</b>	<b>0.15</b>	

**Taluk level Residue-wise Data for Tarn-Taran ; Biomass Class : Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.11	0.017	0.011	0.0016	Wasteland
Catechu	Twigs	0.11	0.014	0.0095	0.0013	Wasteland
Catechu	Bark	0.11	0.014	0.0095	0.0013	Wasteland
Catechu	Branches	0.11	0.014	0.0095	0.0013	Wasteland
Babul	Leaves	0.11	0.012	0.0080	0.0011	Wasteland
Others	Leaves	0.11	0.011	0.0072	0.0010	Wasteland
Babul	Twigs	0.11	0.010	0.0069	0.00097	Wasteland
Babul	Bark	0.11	0.010	0.0069	0.00097	Wasteland
Babul	Branches	0.11	0.010	0.0069	0.00097	Wasteland
Others	Twigs	0.11	0.0094	0.0062	0.00087	Wasteland
Others	Bark	0.11	0.0094	0.0062	0.00087	Wasteland
Others	Branches	0.11	0.0094	0.0062	0.00087	Wasteland
Eucalyptus	Leaves	0.11	0.0091	0.0060	0.00084	Wasteland
Eucalyptus	Twigs	0.11	0.0078	0.0051	0.00072	Wasteland
Eucalyptus	Bark	0.11	0.0078	0.0051	0.00072	Wasteland
Eucalyptus	Branches	0.11	0.0078	0.0051	0.00072	Wasteland
Shisham	Leaves	0.11	0.00091	0.00060	8.45E-05	Wasteland
Shisham	Twigs	0.11	0.00078	0.00052	7.24E-05	Wasteland
Shisham	Bark	0.11	0.00078	0.00052	7.24E-05	Wasteland
Shisham	Branches	0.11	0.00078	0.00052	7.24E-05	Wasteland
White Mulberry	Leaves	0.11	0.00051	0.00034	4.72E-05	Wasteland
White Mulberry	Twigs	0.11	0.00043	0.00029	4.01E-05	Wasteland
White Mulberry	Bark	0.11	0.00043	0.00029	4.01E-05	Wasteland
White Mulberry	Branches	0.11	0.00043	0.00029	4.01E-05	Wasteland
Chir Pine	Leaves	0.11	0.00025	0.00017	2.35E-05	Wasteland
Chir Pine	Twigs	0.11	0.00022	0.00014	2.01E-05	Wasteland
Chir Pine	Bark	0.11	0.00022	0.00014	2.01E-05	Wasteland
Chir Pine	Branches	0.11	0.00022	0.00014	2.01E-05	Wasteland
<b>Total</b>		<b>0.11</b>	<b>0.18</b>	<b>0.12</b>	<b>0.017</b>	

<b>Taluk level Residue-wise Data for Bathinda ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	3.5	0.53	0.35	0.049	Wasteland
Catechu	Twigs	3.5	0.46	0.30	0.042	Wasteland
Catechu	Bark	3.5	0.46	0.30	0.042	Wasteland
Catechu	Branches	3.5	0.46	0.30	0.042	Wasteland
Babul	Leaves	3.5	0.39	0.25	0.036	Wasteland
Others	Leaves	3.5	0.35	0.23	0.032	Wasteland
Babul	Twigs	3.5	0.33	0.22	0.031	Wasteland
Babul	Bark	3.5	0.33	0.22	0.031	Wasteland
Babul	Branches	3.5	0.33	0.22	0.031	Wasteland
Others	Twigs	3.5	0.30	0.20	0.028	Wasteland
Others	Bark	3.5	0.30	0.20	0.028	Wasteland
Others	Branches	3.5	0.30	0.20	0.028	Wasteland
Eucalyptus	Leaves	3.5	0.29	0.19	0.027	Wasteland
Eucalyptus	Twigs	3.5	0.25	0.16	0.023	Wasteland
Eucalyptus	Bark	3.5	0.25	0.16	0.023	Wasteland
Eucalyptus	Branches	3.5	0.25	0.16	0.023	Wasteland
Shisham	Leaves	3.5	0.029	0.019	0.0027	Wasteland
Shisham	Twigs	3.5	0.025	0.016	0.0023	Wasteland
Shisham	Bark	3.5	0.025	0.016	0.0023	Wasteland
Shisham	Branches	3.5	0.025	0.016	0.0023	Wasteland
White Mulberry	Leaves	3.5	0.016	0.011	0.0015	Wasteland
White Mulberry	Twigs	3.5	0.014	0.0091	0.0013	Wasteland
White Mulberry	Bark	3.5	0.014	0.0091	0.0013	Wasteland
White Mulberry	Branches	3.5	0.014	0.0091	0.0013	Wasteland
Chir Pine	Leaves	3.5	0.0080	0.0053	0.00074	Wasteland
Chir Pine	Twigs	3.5	0.0069	0.0046	0.00064	Wasteland
Chir Pine	Bark	3.5	0.0069	0.0046	0.00064	Wasteland
Chir Pine	Branches	3.5	0.0069	0.0046	0.00064	Wasteland
<b>Total</b>		<b>3.5</b>	<b>5.7</b>	<b>3.8</b>	<b>0.53</b>	

**Taluk level Residue-wise Data for Rampura Phul ; Biomass Class :  
Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.24	0.072	0.048	0.0067	Wasteland
Catechu	Twigs	0.24	0.062	0.041	0.0057	Wasteland
Catechu	Bark	0.24	0.062	0.041	0.0057	Wasteland
Catechu	Branches	0.24	0.062	0.041	0.0057	Wasteland
Babul	Leaves	0.24	0.052	0.035	0.0048	Wasteland
Others	Leaves	0.24	0.047	0.031	0.0044	Wasteland
Babul	Twigs	0.24	0.045	0.030	0.0041	Wasteland
Babul	Bark	0.24	0.045	0.030	0.0041	Wasteland
Babul	Branches	0.24	0.045	0.030	0.0041	Wasteland
Others	Twigs	0.24	0.040	0.027	0.0037	Wasteland
Others	Bark	0.24	0.040	0.027	0.0037	Wasteland
Others	Branches	0.24	0.040	0.027	0.0037	Wasteland
Eucalyptus	Leaves	0.24	0.039	0.026	0.0036	Wasteland
Eucalyptus	Twigs	0.24	0.033	0.022	0.0031	Wasteland
Eucalyptus	Bark	0.24	0.033	0.022	0.0031	Wasteland
Eucalyptus	Branches	0.24	0.033	0.022	0.0031	Wasteland
Shisham	Leaves	0.24	0.0039	0.0026	0.00036	Wasteland
Shisham	Twigs	0.24	0.0034	0.0022	0.00031	Wasteland
Shisham	Bark	0.24	0.0034	0.0022	0.00031	Wasteland
Shisham	Branches	0.24	0.0034	0.0022	0.00031	Wasteland
White Mulberry	Leaves	0.24	0.0022	0.0014	0.00020	Wasteland
White Mulberry	Twigs	0.24	0.0019	0.0012	0.00017	Wasteland
White Mulberry	Bark	0.24	0.0019	0.0012	0.00017	Wasteland
White Mulberry	Branches	0.24	0.0019	0.0012	0.00017	Wasteland
Chir Pine	Leaves	0.24	0.0011	0.00072	0.00010	Wasteland
Chir Pine	Twigs	0.24	0.00094	0.00062	8.64E-05	Wasteland
Chir Pine	Bark	0.24	0.00094	0.00062	8.64E-05	Wasteland
Chir Pine	Branches	0.24	0.00094	0.00062	8.64E-05	Wasteland
<b>Total</b>		<b>0.24</b>	<b>0.78</b>	<b>0.51</b>	<b>0.072</b>	

<b>Taluk level Residue-wise Data for Talwandi Sabo ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	2.7	0.41	0.27	0.038	Wasteland
Catechu	Twigs	2.7	0.36	0.23	0.033	Wasteland
Catechu	Bark	2.7	0.36	0.23	0.033	Wasteland
Catechu	Branches	2.7	0.36	0.23	0.033	Wasteland
Babul	Leaves	2.7	0.30	0.20	0.028	Wasteland
Others	Leaves	2.7	0.27	0.18	0.025	Wasteland
Babul	Twigs	2.7	0.26	0.17	0.024	Wasteland
Babul	Bark	2.7	0.26	0.17	0.024	Wasteland
Babul	Branches	2.7	0.26	0.17	0.024	Wasteland
Others	Twigs	2.7	0.23	0.15	0.021	Wasteland
Others	Bark	2.7	0.23	0.15	0.021	Wasteland
Others	Branches	2.7	0.23	0.15	0.021	Wasteland
Eucalyptus	Leaves	2.7	0.22	0.15	0.021	Wasteland
Eucalyptus	Twigs	2.7	0.19	0.13	0.018	Wasteland
Eucalyptus	Bark	2.7	0.19	0.13	0.018	Wasteland
Eucalyptus	Branches	2.7	0.19	0.13	0.018	Wasteland
Shisham	Leaves	2.7	0.023	0.015	0.0021	Wasteland
Shisham	Twigs	2.7	0.019	0.013	0.0018	Wasteland
Shisham	Bark	2.7	0.019	0.013	0.0018	Wasteland
Shisham	Branches	2.7	0.019	0.013	0.0018	Wasteland
White Mulberry	Leaves	2.7	0.013	0.0083	0.0012	Wasteland
White Mulberry	Twigs	2.7	0.011	0.0071	0.00099	Wasteland
White Mulberry	Bark	2.7	0.011	0.0071	0.00099	Wasteland
White Mulberry	Branches	2.7	0.011	0.0071	0.00099	Wasteland
Chir Pine	Leaves	2.7	0.0063	0.0041	0.00058	Wasteland
Chir Pine	Twigs	2.7	0.0054	0.0035	0.00050	Wasteland
Chir Pine	Bark	2.7	0.0054	0.0035	0.00050	Wasteland
Chir Pine	Branches	2.7	0.0054	0.0035	0.00050	Wasteland
<b>Total</b>		<b>2.7</b>	<b>4.5</b>	<b>2.9</b>	<b>0.41</b>	

<b>Taluk level Residue-wise Data for Faridkot ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.036	0.0055	0.0037	0.00051	Wasteland
Catechu	Twigs	0.036	0.0048	0.0031	0.00044	Wasteland
Catechu	Bark	0.036	0.0048	0.0031	0.00044	Wasteland
Catechu	Branches	0.036	0.0048	0.0031	0.00044	Wasteland
Babul	Leaves	0.036	0.0040	0.0027	0.00037	Wasteland
Others	Leaves	0.036	0.0036	0.0024	0.00033	Wasteland
Babul	Twigs	0.036	0.0034	0.0023	0.00032	Wasteland
Babul	Bark	0.036	0.0034	0.0023	0.00032	Wasteland
Babul	Branches	0.036	0.0034	0.0023	0.00032	Wasteland
Others	Twigs	0.036	0.0031	0.0020	0.00029	Wasteland
Others	Bark	0.036	0.0031	0.0020	0.00029	Wasteland
Others	Branches	0.036	0.0031	0.0020	0.00029	Wasteland
Eucalyptus	Leaves	0.036	0.0030	0.0020	0.00028	Wasteland
Eucalyptus	Twigs	0.036	0.0026	0.0017	0.00024	Wasteland
Eucalyptus	Bark	0.036	0.0026	0.0017	0.00024	Wasteland
Eucalyptus	Branches	0.036	0.0026	0.0017	0.00024	Wasteland
Shisham	Leaves	0.036	0.00030	0.00020	2.79E-05	Wasteland
Shisham	Twigs	0.036	0.00026	0.00017	2.39E-05	Wasteland
Shisham	Bark	0.036	0.00026	0.00017	2.39E-05	Wasteland
Shisham	Branches	0.036	0.00026	0.00017	2.39E-05	Wasteland
White Mulberry	Leaves	0.036	0.00017	0.00011	1.56E-05	Wasteland
White Mulberry	Twigs	0.036	0.00014	9.46E-05	1.32E-05	Wasteland
White Mulberry	Bark	0.036	0.00014	9.46E-05	1.32E-05	Wasteland
White Mulberry	Branches	0.036	0.00014	9.46E-05	1.32E-05	Wasteland
Chir Pine	Leaves	0.036	8.38E-05	5.53E-05	7.74E-06	Wasteland
Chir Pine	Twigs	0.036	7.18E-05	4.74E-05	6.63E-06	Wasteland
Chir Pine	Bark	0.036	7.18E-05	4.74E-05	6.63E-06	Wasteland
Chir Pine	Branches	0.036	7.18E-05	4.74E-05	6.63E-06	Wasteland
<b>Total</b>		<b>0.036</b>	<b>0.060</b>	<b>0.039</b>	<b>0.0055</b>	

<b>Taluk level Residue-wise Data for Jaitu ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.089	0.027	0.018	0.0025	Wasteland
Catechu	Twigs	0.089	0.023	0.015	0.0022	Wasteland
Catechu	Bark	0.089	0.023	0.015	0.0022	Wasteland
Catechu	Branches	0.089	0.023	0.015	0.0022	Wasteland
Babul	Leaves	0.089	0.020	0.013	0.0018	Wasteland
Others	Leaves	0.089	0.018	0.012	0.0016	Wasteland
Babul	Twigs	0.089	0.017	0.011	0.0016	Wasteland
Babul	Bark	0.089	0.017	0.011	0.0016	Wasteland
Babul	Branches	0.089	0.017	0.011	0.0016	Wasteland
Others	Twigs	0.089	0.015	0.010	0.0014	Wasteland
Others	Bark	0.089	0.015	0.010	0.0014	Wasteland
Others	Branches	0.089	0.015	0.010	0.0014	Wasteland
Eucalyptus	Leaves	0.089	0.015	0.0097	0.0014	Wasteland
Eucalyptus	Twigs	0.089	0.013	0.0083	0.0012	Wasteland
Eucalyptus	Bark	0.089	0.013	0.0083	0.0012	Wasteland
Eucalyptus	Branches	0.089	0.013	0.0083	0.0012	Wasteland
Shisham	Leaves	0.089	0.0015	0.00098	0.00014	Wasteland
Shisham	Twigs	0.089	0.0013	0.00084	0.00012	Wasteland
Shisham	Bark	0.089	0.0013	0.00084	0.00012	Wasteland
Shisham	Branches	0.089	0.0013	0.00084	0.00012	Wasteland
White Mulberry	Leaves	0.089	0.00083	0.00055	7.64E-05	Wasteland
White Mulberry	Twigs	0.089	0.00070	0.00046	6.51E-05	Wasteland
White Mulberry	Bark	0.089	0.00070	0.00046	6.51E-05	Wasteland
White Mulberry	Branches	0.089	0.00070	0.00046	6.51E-05	Wasteland
Chir Pine	Leaves	0.089	0.00041	0.00027	3.80E-05	Wasteland
Chir Pine	Twigs	0.089	0.00035	0.00023	3.26E-05	Wasteland
Chir Pine	Bark	0.089	0.00035	0.00023	3.26E-05	Wasteland
Chir Pine	Branches	0.089	0.00035	0.00023	3.26E-05	Wasteland
<b>Total</b>		<b>0.089</b>	<b>0.29</b>	<b>0.19</b>	<b>0.027</b>	

<b>Taluk level Residue-wise Data for Amloh ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.11	0.018	0.012	0.0016	Wasteland
Catechu	Twigs	0.11	0.015	0.0099	0.0014	Wasteland
Catechu	Bark	0.11	0.015	0.0099	0.0014	Wasteland
Catechu	Branches	0.11	0.015	0.0099	0.0014	Wasteland
Babul	Leaves	0.11	0.013	0.0084	0.0012	Wasteland
Others	Leaves	0.11	0.011	0.0076	0.0011	Wasteland
Babul	Twigs	0.11	0.011	0.0072	0.0010	Wasteland
Babul	Bark	0.11	0.011	0.0072	0.0010	Wasteland
Babul	Branches	0.11	0.011	0.0072	0.0010	Wasteland
Others	Twigs	0.11	0.0098	0.0065	0.00091	Wasteland
Others	Bark	0.11	0.0098	0.0065	0.00091	Wasteland
Others	Branches	0.11	0.0098	0.0065	0.00091	Wasteland
Eucalyptus	Leaves	0.11	0.0095	0.0063	0.00088	Wasteland
Eucalyptus	Twigs	0.11	0.0081	0.0054	0.00075	Wasteland
Eucalyptus	Bark	0.11	0.0081	0.0054	0.00075	Wasteland
Eucalyptus	Branches	0.11	0.0081	0.0054	0.00075	Wasteland
Shisham	Leaves	0.11	0.00095	0.00063	8.82E-05	Wasteland
Shisham	Twigs	0.11	0.00082	0.00054	7.56E-05	Wasteland
Shisham	Bark	0.11	0.00082	0.00054	7.56E-05	Wasteland
Shisham	Branches	0.11	0.00082	0.00054	7.56E-05	Wasteland
White Mulberry	Leaves	0.11	0.00053	0.00035	4.92E-05	Wasteland
White Mulberry	Twigs	0.11	0.00045	0.00030	4.19E-05	Wasteland
White Mulberry	Bark	0.11	0.00045	0.00030	4.19E-05	Wasteland
White Mulberry	Branches	0.11	0.00045	0.00030	4.19E-05	Wasteland
Chir Pine	Leaves	0.11	0.00027	0.00017	2.45E-05	Wasteland
Chir Pine	Twigs	0.11	0.00023	0.00015	2.10E-05	Wasteland
Chir Pine	Bark	0.11	0.00023	0.00015	2.10E-05	Wasteland
Chir Pine	Branches	0.11	0.00023	0.00015	2.10E-05	Wasteland
<b>Total</b>		<b>0.11</b>	<b>0.19</b>	<b>0.12</b>	<b>0.017</b>	



<b>Taluk level Residue-wise Data for Abohar ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	15.8	4.8	3.2	0.45	Wasteland
Catechu	Twigs	15.8	4.1	2.7	0.38	Wasteland
Catechu	Bark	15.8	4.1	2.7	0.38	Wasteland
Catechu	Branches	15.8	4.1	2.7	0.38	Wasteland
Babul	Leaves	15.8	3.5	2.3	0.32	Wasteland
Others	Leaves	15.8	3.2	2.1	0.29	Wasteland
Babul	Twigs	15.8	3.0	2.0	0.28	Wasteland
Babul	Bark	15.8	3.0	2.0	0.28	Wasteland
Babul	Branches	15.8	3.0	2.0	0.28	Wasteland
Others	Twigs	15.8	2.7	1.8	0.25	Wasteland
Others	Bark	15.8	2.7	1.8	0.25	Wasteland
Others	Branches	15.8	2.7	1.8	0.25	Wasteland
Eucalyptus	Leaves	15.8	2.6	1.7	0.24	Wasteland
Eucalyptus	Twigs	15.8	2.2	1.5	0.21	Wasteland
Eucalyptus	Bark	15.8	2.2	1.5	0.21	Wasteland
Eucalyptus	Branches	15.8	2.2	1.5	0.21	Wasteland
Shisham	Leaves	15.8	0.26	0.17	0.024	Wasteland
Shisham	Twigs	15.8	0.23	0.15	0.021	Wasteland
Shisham	Bark	15.8	0.23	0.15	0.021	Wasteland
Shisham	Branches	15.8	0.23	0.15	0.021	Wasteland
White Mulberry	Leaves	15.8	0.15	0.097	0.014	Wasteland
White Mulberry	Twigs	15.8	0.12	0.082	0.012	Wasteland
White Mulberry	Bark	15.8	0.12	0.082	0.012	Wasteland
White Mulberry	Branches	15.8	0.12	0.082	0.012	Wasteland
Chir Pine	Leaves	15.8	0.073	0.048	0.0067	Wasteland
Chir Pine	Twigs	15.8	0.063	0.041	0.0058	Wasteland
Chir Pine	Bark	15.8	0.063	0.041	0.0058	Wasteland
Chir Pine	Branches	15.8	0.063	0.041	0.0058	Wasteland
<b>Total</b>		<b>15.8</b>	<b>52.1</b>	<b>34.4</b>	<b>4.8</b>	

<b>Taluk level Residue-wise Data for Fazilka ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	3.1	0.47	0.31	0.043	Wasteland
Catechu	Twigs	3.1	0.40	0.26	0.037	Wasteland
Catechu	Bark	3.1	0.40	0.26	0.037	Wasteland
Catechu	Branches	3.1	0.40	0.26	0.037	Wasteland
Babul	Leaves	3.1	0.34	0.22	0.031	Wasteland
Others	Leaves	3.1	0.31	0.20	0.028	Wasteland
Babul	Twigs	3.1	0.29	0.19	0.027	Wasteland
Babul	Bark	3.1	0.29	0.19	0.027	Wasteland
Babul	Branches	3.1	0.29	0.19	0.027	Wasteland
Others	Twigs	3.1	0.26	0.17	0.024	Wasteland
Others	Bark	3.1	0.26	0.17	0.024	Wasteland
Others	Branches	3.1	0.26	0.17	0.024	Wasteland
Eucalyptus	Leaves	3.1	0.25	0.17	0.023	Wasteland
Eucalyptus	Twigs	3.1	0.22	0.14	0.020	Wasteland
Eucalyptus	Bark	3.1	0.22	0.14	0.020	Wasteland
Eucalyptus	Branches	3.1	0.22	0.14	0.020	Wasteland
Shisham	Leaves	3.1	0.025	0.017	0.0024	Wasteland
Shisham	Twigs	3.1	0.022	0.014	0.0020	Wasteland
Shisham	Bark	3.1	0.022	0.014	0.0020	Wasteland
Shisham	Branches	3.1	0.022	0.014	0.0020	Wasteland
White Mulberry	Leaves	3.1	0.014	0.0094	0.0013	Wasteland
White Mulberry	Twigs	3.1	0.012	0.0080	0.0011	Wasteland
White Mulberry	Bark	3.1	0.012	0.0080	0.0011	Wasteland
White Mulberry	Branches	3.1	0.012	0.0080	0.0011	Wasteland
Chir Pine	Leaves	3.1	0.0071	0.0047	0.00065	Wasteland
Chir Pine	Twigs	3.1	0.0061	0.0040	0.00056	Wasteland
Chir Pine	Bark	3.1	0.0061	0.0040	0.00056	Wasteland
Chir Pine	Branches	3.1	0.0061	0.0040	0.00056	Wasteland
<b>Total</b>		<b>3.1</b>	<b>5.0</b>	<b>3.3</b>	<b>0.47</b>	

<b>Taluk level Residue-wise Data for Firozpur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.3	0.20	0.13	0.018	Wasteland
Catechu	Twigs	1.3	0.17	0.11	0.016	Wasteland
Catechu	Bark	1.3	0.17	0.11	0.016	Wasteland
Catechu	Branches	1.3	0.17	0.11	0.016	Wasteland
Babul	Leaves	1.3	0.14	0.094	0.013	Wasteland
Others	Leaves	1.3	0.13	0.085	0.012	Wasteland
Babul	Twigs	1.3	0.12	0.081	0.011	Wasteland
Babul	Bark	1.3	0.12	0.081	0.011	Wasteland
Babul	Branches	1.3	0.12	0.081	0.011	Wasteland
Others	Twigs	1.3	0.11	0.073	0.010	Wasteland
Others	Bark	1.3	0.11	0.073	0.010	Wasteland
Others	Branches	1.3	0.11	0.073	0.010	Wasteland
Eucalyptus	Leaves	1.3	0.11	0.070	0.0098	Wasteland
Eucalyptus	Twigs	1.3	0.091	0.060	0.0084	Wasteland
Eucalyptus	Bark	1.3	0.091	0.060	0.0084	Wasteland
Eucalyptus	Branches	1.3	0.091	0.060	0.0084	Wasteland
Shisham	Leaves	1.3	0.011	0.0071	0.00099	Wasteland
Shisham	Twigs	1.3	0.0092	0.0060	0.00085	Wasteland
Shisham	Bark	1.3	0.0092	0.0060	0.00085	Wasteland
Shisham	Branches	1.3	0.0092	0.0060	0.00085	Wasteland
White Mulberry	Leaves	1.3	0.0060	0.0039	0.00055	Wasteland
White Mulberry	Twigs	1.3	0.0051	0.0034	0.00047	Wasteland
White Mulberry	Bark	1.3	0.0051	0.0034	0.00047	Wasteland
White Mulberry	Branches	1.3	0.0051	0.0034	0.00047	Wasteland
Chir Pine	Leaves	1.3	0.0030	0.0020	0.00027	Wasteland
Chir Pine	Twigs	1.3	0.0025	0.0017	0.00024	Wasteland
Chir Pine	Bark	1.3	0.0025	0.0017	0.00024	Wasteland
Chir Pine	Branches	1.3	0.0025	0.0017	0.00024	Wasteland
<b>Total</b>		<b>1.3</b>	<b>2.1</b>	<b>1.4</b>	<b>0.20</b>	

<b>Taluk level Residue-wise Data for Jalalabad ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.2	0.19	0.13	0.018	Wasteland
Catechu	Twigs	1.2	0.16	0.11	0.015	Wasteland
Catechu	Bark	1.2	0.16	0.11	0.015	Wasteland
Catechu	Branches	1.2	0.16	0.11	0.015	Wasteland
Babul	Leaves	1.2	0.14	0.091	0.013	Wasteland
Others	Leaves	1.2	0.12	0.082	0.011	Wasteland
Babul	Twigs	1.2	0.12	0.078	0.011	Wasteland
Babul	Bark	1.2	0.12	0.078	0.011	Wasteland
Babul	Branches	1.2	0.12	0.078	0.011	Wasteland
Others	Twigs	1.2	0.11	0.070	0.0098	Wasteland
Others	Bark	1.2	0.11	0.070	0.0098	Wasteland
Others	Branches	1.2	0.11	0.070	0.0098	Wasteland
Eucalyptus	Leaves	1.2	0.10	0.068	0.0095	Wasteland
Eucalyptus	Twigs	1.2	0.088	0.058	0.0082	Wasteland
Eucalyptus	Bark	1.2	0.088	0.058	0.0082	Wasteland
Eucalyptus	Branches	1.2	0.088	0.058	0.0082	Wasteland
Shisham	Leaves	1.2	0.010	0.0068	0.00096	Wasteland
Shisham	Twigs	1.2	0.0089	0.0059	0.00082	Wasteland
Shisham	Bark	1.2	0.0089	0.0059	0.00082	Wasteland
Shisham	Branches	1.2	0.0089	0.0059	0.00082	Wasteland
White Mulberry	Leaves	1.2	0.0058	0.0038	0.00053	Wasteland
White Mulberry	Twigs	1.2	0.0049	0.0032	0.00045	Wasteland
White Mulberry	Bark	1.2	0.0049	0.0032	0.00045	Wasteland
White Mulberry	Branches	1.2	0.0049	0.0032	0.00045	Wasteland
Chir Pine	Leaves	1.2	0.0029	0.0019	0.00027	Wasteland
Chir Pine	Twigs	1.2	0.0025	0.0016	0.00023	Wasteland
Chir Pine	Bark	1.2	0.0025	0.0016	0.00023	Wasteland
Chir Pine	Branches	1.2	0.0025	0.0016	0.00023	Wasteland
<b>Total</b>		<b>1.2</b>	<b>2.1</b>	<b>1.4</b>	<b>0.19</b>	

<b>Taluk level Residue-wise Data for Zira ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.17	0.026	0.017	0.0024	Wasteland
Catechu	Twigs	0.17	0.022	0.015	0.0020	Wasteland
Catechu	Bark	0.17	0.022	0.015	0.0020	Wasteland
Catechu	Branches	0.17	0.022	0.015	0.0020	Wasteland
Babul	Leaves	0.17	0.019	0.012	0.0017	Wasteland
Others	Leaves	0.17	0.017	0.011	0.0016	Wasteland
Babul	Twigs	0.17	0.016	0.011	0.0015	Wasteland
Babul	Bark	0.17	0.016	0.011	0.0015	Wasteland
Babul	Branches	0.17	0.016	0.011	0.0015	Wasteland
Others	Twigs	0.17	0.014	0.0095	0.0013	Wasteland
Others	Bark	0.17	0.014	0.0095	0.0013	Wasteland
Others	Branches	0.17	0.014	0.0095	0.0013	Wasteland
Eucalyptus	Leaves	0.17	0.014	0.0092	0.0013	Wasteland
Eucalyptus	Twigs	0.17	0.012	0.0079	0.0011	Wasteland
Eucalyptus	Bark	0.17	0.012	0.0079	0.0011	Wasteland
Eucalyptus	Branches	0.17	0.012	0.0079	0.0011	Wasteland
Shisham	Leaves	0.17	0.0014	0.00093	0.00013	Wasteland
Shisham	Twigs	0.17	0.0012	0.00079	0.00011	Wasteland
Shisham	Bark	0.17	0.0012	0.00079	0.00011	Wasteland
Shisham	Branches	0.17	0.0012	0.00079	0.00011	Wasteland
White Mulberry	Leaves	0.17	0.00078	0.00052	7.24E-05	Wasteland
White Mulberry	Twigs	0.17	0.00067	0.00044	6.16E-05	Wasteland
White Mulberry	Bark	0.17	0.00067	0.00044	6.16E-05	Wasteland
White Mulberry	Branches	0.17	0.00067	0.00044	6.16E-05	Wasteland
Chir Pine	Leaves	0.17	0.00039	0.00026	3.60E-05	Wasteland
Chir Pine	Twigs	0.17	0.00033	0.00022	3.09E-05	Wasteland
Chir Pine	Bark	0.17	0.00033	0.00022	3.09E-05	Wasteland
Chir Pine	Branches	0.17	0.00033	0.00022	3.09E-05	Wasteland
<b>Total</b>		<b>0.17</b>	<b>0.28</b>	<b>0.18</b>	<b>0.026</b>	

<b>Taluk level Residue-wise Data for Batala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.044	0.0068	0.0045	0.00063	Wasteland
Catechu	Twigs	0.044	0.0058	0.0038	0.00054	Wasteland
Catechu	Bark	0.044	0.0058	0.0038	0.00054	Wasteland
Catechu	Branches	0.044	0.0058	0.0038	0.00054	Wasteland
Babul	Leaves	0.044	0.0049	0.0032	0.00045	Wasteland
Others	Leaves	0.044	0.0044	0.0029	0.00041	Wasteland
Babul	Twigs	0.044	0.0042	0.0028	0.00039	Wasteland
Babul	Bark	0.044	0.0042	0.0028	0.00039	Wasteland
Babul	Branches	0.044	0.0042	0.0028	0.00039	Wasteland
Others	Twigs	0.044	0.0038	0.0025	0.00035	Wasteland
Others	Bark	0.044	0.0038	0.0025	0.00035	Wasteland
Others	Branches	0.044	0.0038	0.0025	0.00035	Wasteland
Eucalyptus	Leaves	0.044	0.0037	0.0024	0.00034	Wasteland
Eucalyptus	Twigs	0.044	0.0031	0.0021	0.00029	Wasteland
Eucalyptus	Bark	0.044	0.0031	0.0021	0.00029	Wasteland
Eucalyptus	Branches	0.044	0.0031	0.0021	0.00029	Wasteland
Shisham	Leaves	0.044	0.00037	0.00024	3.40E-05	Wasteland
Shisham	Twigs	0.044	0.00032	0.00021	2.92E-05	Wasteland
Shisham	Bark	0.044	0.00032	0.00021	2.92E-05	Wasteland
Shisham	Branches	0.044	0.00032	0.00021	2.92E-05	Wasteland
White Mulberry	Leaves	0.044	0.00021	0.00014	1.90E-05	Wasteland
White Mulberry	Twigs	0.044	0.00018	0.00012	1.62E-05	Wasteland
White Mulberry	Bark	0.044	0.00018	0.00012	1.62E-05	Wasteland
White Mulberry	Branches	0.044	0.00018	0.00012	1.62E-05	Wasteland
Chir Pine	Leaves	0.044	0.00010	6.76E-05	9.46E-06	Wasteland
Chir Pine	Twigs	0.044	8.77E-05	5.79E-05	8.11E-06	Wasteland
Chir Pine	Bark	0.044	8.77E-05	5.79E-05	8.11E-06	Wasteland
Chir Pine	Branches	0.044	8.77E-05	5.79E-05	8.11E-06	Wasteland
<b>Total</b>		<b>0.044</b>	<b>0.073</b>	<b>0.048</b>	<b>0.0067</b>	

**Taluk level Residue-wise Data for Dera Baba Nanak ; Biomass Class :  
Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.47	0.072	0.048	0.0067	Wasteland
Catechu	Twigs	0.47	0.062	0.041	0.0057	Wasteland
Catechu	Bark	0.47	0.062	0.041	0.0057	Wasteland
Catechu	Branches	0.47	0.062	0.041	0.0057	Wasteland
Babul	Leaves	0.47	0.053	0.035	0.0049	Wasteland
Others	Leaves	0.47	0.047	0.031	0.0044	Wasteland
Babul	Twigs	0.47	0.045	0.030	0.0042	Wasteland
Babul	Bark	0.47	0.045	0.030	0.0042	Wasteland
Babul	Branches	0.47	0.045	0.030	0.0042	Wasteland
Others	Twigs	0.47	0.041	0.027	0.0037	Wasteland
Others	Bark	0.47	0.041	0.027	0.0037	Wasteland
Others	Branches	0.47	0.041	0.027	0.0037	Wasteland
Eucalyptus	Leaves	0.47	0.039	0.026	0.0036	Wasteland
Eucalyptus	Twigs	0.47	0.034	0.022	0.0031	Wasteland
Eucalyptus	Bark	0.47	0.034	0.022	0.0031	Wasteland
Eucalyptus	Branches	0.47	0.034	0.022	0.0031	Wasteland
Shisham	Leaves	0.47	0.0039	0.0026	0.00036	Wasteland
Shisham	Twigs	0.47	0.0034	0.0022	0.00031	Wasteland
Shisham	Bark	0.47	0.0034	0.0022	0.00031	Wasteland
Shisham	Branches	0.47	0.0034	0.0022	0.00031	Wasteland
White Mulberry	Leaves	0.47	0.0022	0.0015	0.00020	Wasteland
White Mulberry	Twigs	0.47	0.0019	0.0012	0.00017	Wasteland
White Mulberry	Bark	0.47	0.0019	0.0012	0.00017	Wasteland
White Mulberry	Branches	0.47	0.0019	0.0012	0.00017	Wasteland
Chir Pine	Leaves	0.47	0.0011	0.00072	0.00010	Wasteland
Chir Pine	Twigs	0.47	0.00094	0.00062	8.67E-05	Wasteland
Chir Pine	Bark	0.47	0.00094	0.00062	8.67E-05	Wasteland
Chir Pine	Branches	0.47	0.00094	0.00062	8.67E-05	Wasteland
<b>Total</b>		<b>0.47</b>	<b>0.78</b>	<b>0.52</b>	<b>0.072</b>	

<b>Taluk level Residue-wise Data for Dhar Kalan ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.15	0.023	0.015	0.0021	Wasteland
Catechu	Twigs	0.15	0.019	0.013	0.0018	Wasteland
Catechu	Bark	0.15	0.019	0.013	0.0018	Wasteland
Catechu	Branches	0.15	0.019	0.013	0.0018	Wasteland
Babul	Leaves	0.15	0.016	0.011	0.0015	Wasteland
Others	Leaves	0.15	0.015	0.0098	0.0014	Wasteland
Babul	Twigs	0.15	0.014	0.0093	0.0013	Wasteland
Babul	Bark	0.15	0.014	0.0093	0.0013	Wasteland
Babul	Branches	0.15	0.014	0.0093	0.0013	Wasteland
Others	Twigs	0.15	0.013	0.0084	0.0012	Wasteland
Others	Bark	0.15	0.013	0.0084	0.0012	Wasteland
Others	Branches	0.15	0.013	0.0084	0.0012	Wasteland
Eucalyptus	Leaves	0.15	0.012	0.0081	0.0011	Wasteland
Eucalyptus	Twigs	0.15	0.011	0.0069	0.00097	Wasteland
Eucalyptus	Bark	0.15	0.011	0.0069	0.00097	Wasteland
Eucalyptus	Branches	0.15	0.011	0.0069	0.00097	Wasteland
Shisham	Leaves	0.15	0.0012	0.00081	0.00011	Wasteland
Shisham	Twigs	0.15	0.0011	0.00070	9.77E-05	Wasteland
Shisham	Bark	0.15	0.0011	0.00070	9.77E-05	Wasteland
Shisham	Branches	0.15	0.0011	0.00070	9.77E-05	Wasteland
White Mulberry	Leaves	0.15	0.00069	0.00045	6.37E-05	Wasteland
White Mulberry	Twigs	0.15	0.00059	0.00039	5.42E-05	Wasteland
White Mulberry	Bark	0.15	0.00059	0.00039	5.42E-05	Wasteland
White Mulberry	Branches	0.15	0.00059	0.00039	5.42E-05	Wasteland
Chir Pine	Leaves	0.15	0.00034	0.00023	3.17E-05	Wasteland
Chir Pine	Twigs	0.15	0.00029	0.00019	2.72E-05	Wasteland
Chir Pine	Bark	0.15	0.00029	0.00019	2.72E-05	Wasteland
Chir Pine	Branches	0.15	0.00029	0.00019	2.72E-05	Wasteland
<b>Total</b>		<b>0.15</b>	<b>0.24</b>	<b>0.16</b>	<b>0.023</b>	



<b>Taluk level Residue-wise Data for Gurdaspur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.75	0.23	0.15	0.021	Wasteland
Catechu	Twigs	0.75	0.20	0.13	0.018	Wasteland
Catechu	Bark	0.75	0.20	0.13	0.018	Wasteland
Catechu	Branches	0.75	0.20	0.13	0.018	Wasteland
Babul	Leaves	0.75	0.17	0.11	0.015	Wasteland
Others	Leaves	0.75	0.15	0.099	0.014	Wasteland
Babul	Twigs	0.75	0.14	0.094	0.013	Wasteland
Babul	Bark	0.75	0.14	0.094	0.013	Wasteland
Babul	Branches	0.75	0.14	0.094	0.013	Wasteland
Others	Twigs	0.75	0.13	0.085	0.012	Wasteland
Others	Bark	0.75	0.13	0.085	0.012	Wasteland
Others	Branches	0.75	0.13	0.085	0.012	Wasteland
Eucalyptus	Leaves	0.75	0.12	0.082	0.011	Wasteland
Eucalyptus	Twigs	0.75	0.11	0.070	0.0098	Wasteland
Eucalyptus	Bark	0.75	0.11	0.070	0.0098	Wasteland
Eucalyptus	Branches	0.75	0.11	0.070	0.0098	Wasteland
Shisham	Leaves	0.75	0.012	0.0082	0.0012	Wasteland
Shisham	Twigs	0.75	0.011	0.0071	0.00099	Wasteland
Shisham	Bark	0.75	0.011	0.0071	0.00099	Wasteland
Shisham	Branches	0.75	0.011	0.0071	0.00099	Wasteland
White Mulberry	Leaves	0.75	0.0070	0.0046	0.00064	Wasteland
White Mulberry	Twigs	0.75	0.0059	0.0039	0.00055	Wasteland
White Mulberry	Bark	0.75	0.0059	0.0039	0.00055	Wasteland
White Mulberry	Branches	0.75	0.0059	0.0039	0.00055	Wasteland
Chir Pine	Leaves	0.75	0.0035	0.0023	0.00032	Wasteland
Chir Pine	Twigs	0.75	0.0030	0.0020	0.00027	Wasteland
Chir Pine	Bark	0.75	0.0030	0.0020	0.00027	Wasteland
Chir Pine	Branches	0.75	0.0030	0.0020	0.00027	Wasteland
<b>Total</b>		<b>0.75</b>	<b>2.5</b>	<b>1.6</b>	<b>0.23</b>	

**Taluk level Residue-wise Data for Pathankot ; Biomass Class : Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	4.2	0.64	0.42	0.059	Wasteland
Catechu	Twigs	4.2	0.55	0.36	0.051	Wasteland
Catechu	Bark	4.2	0.55	0.36	0.051	Wasteland
Catechu	Branches	4.2	0.55	0.36	0.051	Wasteland
Babul	Leaves	4.2	0.46	0.31	0.043	Wasteland
Others	Leaves	4.2	0.42	0.28	0.039	Wasteland
Babul	Twigs	4.2	0.40	0.26	0.037	Wasteland
Babul	Bark	4.2	0.40	0.26	0.037	Wasteland
Babul	Branches	4.2	0.40	0.26	0.037	Wasteland
Others	Twigs	4.2	0.36	0.24	0.033	Wasteland
Others	Bark	4.2	0.36	0.24	0.033	Wasteland
Others	Branches	4.2	0.36	0.24	0.033	Wasteland
Eucalyptus	Leaves	4.2	0.35	0.23	0.032	Wasteland
Eucalyptus	Twigs	4.2	0.30	0.20	0.027	Wasteland
Eucalyptus	Bark	4.2	0.30	0.20	0.027	Wasteland
Eucalyptus	Branches	4.2	0.30	0.20	0.027	Wasteland
Shisham	Leaves	4.2	0.035	0.023	0.0032	Wasteland
Shisham	Twigs	4.2	0.030	0.020	0.0028	Wasteland
Shisham	Bark	4.2	0.030	0.020	0.0028	Wasteland
Shisham	Branches	4.2	0.030	0.020	0.0028	Wasteland
White Mulberry	Leaves	4.2	0.019	0.013	0.0018	Wasteland
White Mulberry	Twigs	4.2	0.017	0.011	0.0015	Wasteland
White Mulberry	Bark	4.2	0.017	0.011	0.0015	Wasteland
White Mulberry	Branches	4.2	0.017	0.011	0.0015	Wasteland
Chir Pine	Leaves	4.2	0.0097	0.0064	0.00089	Wasteland
Chir Pine	Twigs	4.2	0.0083	0.0055	0.00077	Wasteland
Chir Pine	Bark	4.2	0.0083	0.0055	0.00077	Wasteland
Chir Pine	Branches	4.2	0.0083	0.0055	0.00077	Wasteland
<b>Total</b>		<b>4.2</b>	<b>6.9</b>	<b>4.6</b>	<b>0.64</b>	

<b>Taluk level Residue-wise Data for Dasua ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.035	0.0054	0.0036	0.00050	Wasteland
Catechu	Twigs	0.035	0.0046	0.0031	0.00043	Wasteland
Catechu	Bark	0.035	0.0046	0.0031	0.00043	Wasteland
Catechu	Branches	0.035	0.0046	0.0031	0.00043	Wasteland
Babul	Leaves	0.035	0.0039	0.0026	0.00036	Wasteland
Others	Leaves	0.035	0.0035	0.0023	0.00033	Wasteland
Babul	Twigs	0.035	0.0034	0.0022	0.00031	Wasteland
Babul	Bark	0.035	0.0034	0.0022	0.00031	Wasteland
Babul	Branches	0.035	0.0034	0.0022	0.00031	Wasteland
Others	Twigs	0.035	0.0030	0.0020	0.00028	Wasteland
Others	Bark	0.035	0.0030	0.0020	0.00028	Wasteland
Others	Branches	0.035	0.0030	0.0020	0.00028	Wasteland
Eucalyptus	Leaves	0.035	0.0029	0.0019	0.00027	Wasteland
Eucalyptus	Twigs	0.035	0.0025	0.0017	0.00023	Wasteland
Eucalyptus	Bark	0.035	0.0025	0.0017	0.00023	Wasteland
Eucalyptus	Branches	0.035	0.0025	0.0017	0.00023	Wasteland
Shisham	Leaves	0.035	0.00029	0.00019	2.72E-05	Wasteland
Shisham	Twigs	0.035	0.00025	0.00017	2.33E-05	Wasteland
Shisham	Bark	0.035	0.00025	0.00017	2.33E-05	Wasteland
Shisham	Branches	0.035	0.00025	0.00017	2.33E-05	Wasteland
White Mulberry	Leaves	0.035	0.00016	0.00011	1.52E-05	Wasteland
White Mulberry	Twigs	0.035	0.00014	9.24E-05	1.29E-05	Wasteland
White Mulberry	Bark	0.035	0.00014	9.24E-05	1.29E-05	Wasteland
White Mulberry	Branches	0.035	0.00014	9.24E-05	1.29E-05	Wasteland
Chir Pine	Leaves	0.035	8.19E-05	5.40E-05	7.56E-06	Wasteland
Chir Pine	Twigs	0.035	7.02E-05	4.63E-05	6.48E-06	Wasteland
Chir Pine	Bark	0.035	7.02E-05	4.63E-05	6.48E-06	Wasteland
Chir Pine	Branches	0.035	7.02E-05	4.63E-05	6.48E-06	Wasteland
<b>Total</b>		<b>0.035</b>	<b>0.058</b>	<b>0.039</b>	<b>0.0054</b>	

<b>Taluk level Residue-wise Data for Hoshiarpur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.17	0.027	0.018	0.0025	Wasteland
Catechu	Twigs	0.17	0.023	0.015	0.0021	Wasteland
Catechu	Bark	0.17	0.023	0.015	0.0021	Wasteland
Catechu	Branches	0.17	0.023	0.015	0.0021	Wasteland
Babul	Leaves	0.17	0.019	0.013	0.0018	Wasteland
Others	Leaves	0.17	0.017	0.011	0.0016	Wasteland
Babul	Twigs	0.17	0.017	0.011	0.0015	Wasteland
Babul	Bark	0.17	0.017	0.011	0.0015	Wasteland
Babul	Branches	0.17	0.017	0.011	0.0015	Wasteland
Others	Twigs	0.17	0.015	0.0098	0.0014	Wasteland
Others	Bark	0.17	0.015	0.0098	0.0014	Wasteland
Others	Branches	0.17	0.015	0.0098	0.0014	Wasteland
Eucalyptus	Leaves	0.17	0.014	0.0095	0.0013	Wasteland
Eucalyptus	Twigs	0.17	0.012	0.0081	0.0011	Wasteland
Eucalyptus	Bark	0.17	0.012	0.0081	0.0011	Wasteland
Eucalyptus	Branches	0.17	0.012	0.0081	0.0011	Wasteland
Shisham	Leaves	0.17	0.0014	0.00095	0.00013	Wasteland
Shisham	Twigs	0.17	0.0012	0.00082	0.00011	Wasteland
Shisham	Bark	0.17	0.0012	0.00082	0.00011	Wasteland
Shisham	Branches	0.17	0.0012	0.00082	0.00011	Wasteland
White Mulberry	Leaves	0.17	0.00081	0.00053	7.45E-05	Wasteland
White Mulberry	Twigs	0.17	0.00069	0.00045	6.34E-05	Wasteland
White Mulberry	Bark	0.17	0.00069	0.00045	6.34E-05	Wasteland
White Mulberry	Branches	0.17	0.00069	0.00045	6.34E-05	Wasteland
Chir Pine	Leaves	0.17	0.00040	0.00026	3.71E-05	Wasteland
Chir Pine	Twigs	0.17	0.00034	0.00023	3.18E-05	Wasteland
Chir Pine	Bark	0.17	0.00034	0.00023	3.18E-05	Wasteland
Chir Pine	Branches	0.17	0.00034	0.00023	3.18E-05	Wasteland
<b>Total</b>		<b>0.17</b>	<b>0.29</b>	<b>0.19</b>	<b>0.026</b>	

<b>Taluk level Residue-wise Data for Mukerian ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.16	0.024	0.016	0.0022	Wasteland
Catechu	Twigs	0.16	0.021	0.014	0.0019	Wasteland
Catechu	Bark	0.16	0.021	0.014	0.0019	Wasteland
Catechu	Branches	0.16	0.021	0.014	0.0019	Wasteland
Babul	Leaves	0.16	0.018	0.012	0.0016	Wasteland
Others	Leaves	0.16	0.016	0.010	0.0015	Wasteland
Babul	Twigs	0.16	0.015	0.0099	0.0014	Wasteland
Babul	Bark	0.16	0.015	0.0099	0.0014	Wasteland
Babul	Branches	0.16	0.015	0.0099	0.0014	Wasteland
Others	Twigs	0.16	0.014	0.0089	0.0013	Wasteland
Others	Bark	0.16	0.014	0.0089	0.0013	Wasteland
Others	Branches	0.16	0.014	0.0089	0.0013	Wasteland
Eucalyptus	Leaves	0.16	0.013	0.0086	0.0012	Wasteland
Eucalyptus	Twigs	0.16	0.011	0.0074	0.0010	Wasteland
Eucalyptus	Bark	0.16	0.011	0.0074	0.0010	Wasteland
Eucalyptus	Branches	0.16	0.011	0.0074	0.0010	Wasteland
Shisham	Leaves	0.16	0.0013	0.00087	0.00012	Wasteland
Shisham	Twigs	0.16	0.0011	0.00074	0.00010	Wasteland
Shisham	Bark	0.16	0.0011	0.00074	0.00010	Wasteland
Shisham	Branches	0.16	0.0011	0.00074	0.00010	Wasteland
White Mulberry	Leaves	0.16	0.00073	0.00048	6.79E-05	Wasteland
White Mulberry	Twigs	0.16	0.00063	0.00041	5.78E-05	Wasteland
White Mulberry	Bark	0.16	0.00063	0.00041	5.78E-05	Wasteland
White Mulberry	Branches	0.16	0.00063	0.00041	5.78E-05	Wasteland
Chir Pine	Leaves	0.16	0.00037	0.00024	3.38E-05	Wasteland
Chir Pine	Twigs	0.16	0.00031	0.00021	2.89E-05	Wasteland
Chir Pine	Bark	0.16	0.00031	0.00021	2.89E-05	Wasteland
Chir Pine	Branches	0.16	0.00031	0.00021	2.89E-05	Wasteland
<b>Total</b>		<b>0.16</b>	<b>0.26</b>	<b>0.17</b>	<b>0.024</b>	

**Taluk level Residue-wise Data for Jalandhar-I ; Biomass Class : Wasteland**

<b>Species</b>	<b>Biomass</b>	<b>Area (kHa)</b>	<b>Biomass Generation (kT/Yr)</b>	<b>Biomass Surplus (kT/Yr)</b>	<b>Power Potential (MWe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.038	0.0059	0.0039	0.00054	Wasteland
Catechu	Twigs	0.038	0.0050	0.0033	0.00047	Wasteland
Catechu	Bark	0.038	0.0050	0.0033	0.00047	Wasteland
Catechu	Branches	0.038	0.0050	0.0033	0.00047	Wasteland
Babul	Leaves	0.038	0.0043	0.0028	0.00039	Wasteland
Others	Leaves	0.038	0.0038	0.0025	0.00035	Wasteland
Babul	Twigs	0.038	0.0037	0.0024	0.00034	Wasteland
Babul	Bark	0.038	0.0037	0.0024	0.00034	Wasteland
Babul	Branches	0.038	0.0037	0.0024	0.00034	Wasteland
Others	Twigs	0.038	0.0033	0.0022	0.00030	Wasteland
Others	Bark	0.038	0.0033	0.0022	0.00030	Wasteland
Others	Branches	0.038	0.0033	0.0022	0.00030	Wasteland
Eucalyptus	Leaves	0.038	0.0032	0.0021	0.00029	Wasteland
Eucalyptus	Twigs	0.038	0.0027	0.0018	0.00025	Wasteland
Eucalyptus	Bark	0.038	0.0027	0.0018	0.00025	Wasteland
Eucalyptus	Branches	0.038	0.0027	0.0018	0.00025	Wasteland
Shisham	Leaves	0.038	0.00032	0.00021	2.95E-05	Wasteland
Shisham	Twigs	0.038	0.00027	0.00018	2.53E-05	Wasteland
Shisham	Bark	0.038	0.00027	0.00018	2.53E-05	Wasteland
Shisham	Branches	0.038	0.00027	0.00018	2.53E-05	Wasteland
White Mulberry	Leaves	0.038	0.00018	0.00012	1.65E-05	Wasteland
White Mulberry	Twigs	0.038	0.00015	0.00010	1.40E-05	Wasteland
White Mulberry	Bark	0.038	0.00015	0.00010	1.40E-05	Wasteland
White Mulberry	Branches	0.038	0.00015	0.00010	1.40E-05	Wasteland
Chir Pine	Leaves	0.038	8.88E-05	5.86E-05	8.20E-06	Wasteland
Chir Pine	Twigs	0.038	7.61E-05	5.02E-05	7.03E-06	Wasteland
Chir Pine	Bark	0.038	7.61E-05	5.02E-05	7.03E-06	Wasteland
Chir Pine	Branches	0.038	7.61E-05	5.02E-05	7.03E-06	Wasteland
<b>Total</b>		<b>0.038</b>	<b>0.063</b>	<b>0.042</b>	<b>0.0059</b>	

**Taluk level Residue-wise Data for Jalandhar-Ii ; Biomass Class : Wasteland**

Species	Biomass	Area (kHa)	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Power Potential (MWe)	Biomass Class
Catechu	Leaves	0.099	0.015	0.010	0.0014	Wasteland
Catechu	Twigs	0.099	0.013	0.0086	0.0012	Wasteland
Catechu	Bark	0.099	0.013	0.0086	0.0012	Wasteland
Catechu	Branches	0.099	0.013	0.0086	0.0012	Wasteland
Babul	Leaves	0.099	0.011	0.0073	0.0010	Wasteland
Others	Leaves	0.099	0.0099	0.0065	0.00091	Wasteland
Babul	Twigs	0.099	0.0094	0.0062	0.00087	Wasteland
Babul	Bark	0.099	0.0094	0.0062	0.00087	Wasteland
Babul	Branches	0.099	0.0094	0.0062	0.00087	Wasteland
Others	Twigs	0.099	0.0085	0.0056	0.00078	Wasteland
Others	Bark	0.099	0.0085	0.0056	0.00078	Wasteland
Others	Branches	0.099	0.0085	0.0056	0.00078	Wasteland
Eucalyptus	Leaves	0.099	0.0082	0.0054	0.00076	Wasteland
Eucalyptus	Twigs	0.099	0.0070	0.0046	0.00065	Wasteland
Eucalyptus	Bark	0.099	0.0070	0.0046	0.00065	Wasteland
Eucalyptus	Branches	0.099	0.0070	0.0046	0.00065	Wasteland
Shisham	Leaves	0.099	0.00083	0.00054	7.62E-05	Wasteland
Shisham	Twigs	0.099	0.00071	0.00047	6.54E-05	Wasteland
Shisham	Bark	0.099	0.00071	0.00047	6.54E-05	Wasteland
Shisham	Branches	0.099	0.00071	0.00047	6.54E-05	Wasteland
White Mulberry	Leaves	0.099	0.00046	0.00030	4.26E-05	Wasteland
White Mulberry	Twigs	0.099	0.00039	0.00026	3.62E-05	Wasteland
White Mulberry	Bark	0.099	0.00039	0.00026	3.62E-05	Wasteland
White Mulberry	Branches	0.099	0.00039	0.00026	3.62E-05	Wasteland
Chir Pine	Leaves	0.099	0.00023	0.00015	2.12E-05	Wasteland
Chir Pine	Twigs	0.099	0.00020	0.00013	1.82E-05	Wasteland
Chir Pine	Bark	0.099	0.00020	0.00013	1.82E-05	Wasteland
Chir Pine	Branches	0.099	0.00020	0.00013	1.82E-05	Wasteland
<b>Total</b>		<b>0.099</b>	<b>0.16</b>	<b>0.11</b>	<b>0.015</b>	

<b>Taluk level Residue-wise Data for Nakodar ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.038	0.0059	0.0039	0.00054	Wasteland
Catechu	Twigs	0.038	0.0050	0.0033	0.00047	Wasteland
Catechu	Bark	0.038	0.0050	0.0033	0.00047	Wasteland
Catechu	Branches	0.038	0.0050	0.0033	0.00047	Wasteland
Babul	Leaves	0.038	0.0043	0.0028	0.00039	Wasteland
Others	Leaves	0.038	0.0038	0.0025	0.00035	Wasteland
Babul	Twigs	0.038	0.0037	0.0024	0.00034	Wasteland
Babul	Bark	0.038	0.0037	0.0024	0.00034	Wasteland
Babul	Branches	0.038	0.0037	0.0024	0.00034	Wasteland
Others	Twigs	0.038	0.0033	0.0022	0.00030	Wasteland
Others	Bark	0.038	0.0033	0.0022	0.00030	Wasteland
Others	Branches	0.038	0.0033	0.0022	0.00030	Wasteland
Eucalyptus	Leaves	0.038	0.0032	0.0021	0.00029	Wasteland
Eucalyptus	Twigs	0.038	0.0027	0.0018	0.00025	Wasteland
Eucalyptus	Bark	0.038	0.0027	0.0018	0.00025	Wasteland
Eucalyptus	Branches	0.038	0.0027	0.0018	0.00025	Wasteland
Shisham	Leaves	0.038	0.00032	0.00021	2.96E-05	Wasteland
Shisham	Twigs	0.038	0.00027	0.00018	2.54E-05	Wasteland
Shisham	Bark	0.038	0.00027	0.00018	2.54E-05	Wasteland
Shisham	Branches	0.038	0.00027	0.00018	2.54E-05	Wasteland
White Mulberry	Leaves	0.038	0.00018	0.00012	1.65E-05	Wasteland
White Mulberry	Twigs	0.038	0.00015	0.00010	1.41E-05	Wasteland
White Mulberry	Bark	0.038	0.00015	0.00010	1.41E-05	Wasteland
White Mulberry	Branches	0.038	0.00015	0.00010	1.41E-05	Wasteland
Chir Pine	Leaves	0.038	8.89E-05	5.87E-05	8.22E-06	Wasteland
Chir Pine	Twigs	0.038	7.62E-05	5.03E-05	7.04E-06	Wasteland
Chir Pine	Bark	0.038	7.62E-05	5.03E-05	7.04E-06	Wasteland
Chir Pine	Branches	0.038	7.62E-05	5.03E-05	7.04E-06	Wasteland
<b>Total</b>		<b>0.038</b>	<b>0.063</b>	<b>0.042</b>	<b>0.0059</b>	



<b>Taluk level Residue-wise Data for Phillaur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.048	0.015	0.0096	0.0013	Wasteland
Catechu	Twigs	0.048	0.013	0.0083	0.0012	Wasteland
Catechu	Bark	0.048	0.013	0.0083	0.0012	Wasteland
Catechu	Branches	0.048	0.013	0.0083	0.0012	Wasteland
Babul	Leaves	0.048	0.011	0.0070	0.00098	Wasteland
Others	Leaves	0.048	0.0095	0.0063	0.00088	Wasteland
Babul	Twigs	0.048	0.0091	0.0060	0.00084	Wasteland
Babul	Bark	0.048	0.0091	0.0060	0.00084	Wasteland
Babul	Branches	0.048	0.0091	0.0060	0.00084	Wasteland
Others	Twigs	0.048	0.0082	0.0054	0.00076	Wasteland
Others	Bark	0.048	0.0082	0.0054	0.00076	Wasteland
Others	Branches	0.048	0.0082	0.0054	0.00076	Wasteland
Eucalyptus	Leaves	0.048	0.0079	0.0052	0.00073	Wasteland
Eucalyptus	Twigs	0.048	0.0068	0.0045	0.00063	Wasteland
Eucalyptus	Bark	0.048	0.0068	0.0045	0.00063	Wasteland
Eucalyptus	Branches	0.048	0.0068	0.0045	0.00063	Wasteland
Shisham	Leaves	0.048	0.00079	0.00052	7.34E-05	Wasteland
Shisham	Twigs	0.048	0.00068	0.00045	6.29E-05	Wasteland
Shisham	Bark	0.048	0.00068	0.00045	6.29E-05	Wasteland
Shisham	Branches	0.048	0.00068	0.00045	6.29E-05	Wasteland
White Mulberry	Leaves	0.048	0.00044	0.00029	4.10E-05	Wasteland
White Mulberry	Twigs	0.048	0.00038	0.00025	3.49E-05	Wasteland
White Mulberry	Bark	0.048	0.00038	0.00025	3.49E-05	Wasteland
White Mulberry	Branches	0.048	0.00038	0.00025	3.49E-05	Wasteland
Chir Pine	Leaves	0.048	0.00022	0.00015	2.04E-05	Wasteland
Chir Pine	Twigs	0.048	0.00019	0.00012	1.75E-05	Wasteland
Chir Pine	Bark	0.048	0.00019	0.00012	1.75E-05	Wasteland
Chir Pine	Branches	0.048	0.00019	0.00012	1.75E-05	Wasteland
<b>Total</b>		<b>0.048</b>	<b>0.16</b>	<b>0.10</b>	<b>0.015</b>	

<b>Taluk level Residue-wise Data for Bhulath ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.085	0.013	0.0086	0.0012	Wasteland
Catechu	Twigs	0.085	0.011	0.0074	0.0010	Wasteland
Catechu	Bark	0.085	0.011	0.0074	0.0010	Wasteland
Catechu	Branches	0.085	0.011	0.0074	0.0010	Wasteland
Babul	Leaves	0.085	0.0095	0.0062	0.00087	Wasteland
Others	Leaves	0.085	0.0085	0.0056	0.00079	Wasteland
Babul	Twigs	0.085	0.0081	0.0053	0.00075	Wasteland
Babul	Bark	0.085	0.0081	0.0053	0.00075	Wasteland
Babul	Branches	0.085	0.0081	0.0053	0.00075	Wasteland
Others	Twigs	0.085	0.0073	0.0048	0.00067	Wasteland
Others	Bark	0.085	0.0073	0.0048	0.00067	Wasteland
Others	Branches	0.085	0.0073	0.0048	0.00067	Wasteland
Eucalyptus	Leaves	0.085	0.0071	0.0047	0.00065	Wasteland
Eucalyptus	Twigs	0.085	0.0060	0.0040	0.00056	Wasteland
Eucalyptus	Bark	0.085	0.0060	0.0040	0.00056	Wasteland
Eucalyptus	Branches	0.085	0.0060	0.0040	0.00056	Wasteland
Shisham	Leaves	0.085	0.00071	0.00047	6.55E-05	Wasteland
Shisham	Twigs	0.085	0.00061	0.00040	5.62E-05	Wasteland
Shisham	Bark	0.085	0.00061	0.00040	5.62E-05	Wasteland
Shisham	Branches	0.085	0.00061	0.00040	5.62E-05	Wasteland
White Mulberry	Leaves	0.085	0.00040	0.00026	3.66E-05	Wasteland
White Mulberry	Twigs	0.085	0.00034	0.00022	3.11E-05	Wasteland
White Mulberry	Bark	0.085	0.00034	0.00022	3.11E-05	Wasteland
White Mulberry	Branches	0.085	0.00034	0.00022	3.11E-05	Wasteland
Chir Pine	Leaves	0.085	0.00020	0.00013	1.82E-05	Wasteland
Chir Pine	Twigs	0.085	0.00017	0.00011	1.56E-05	Wasteland
Chir Pine	Bark	0.085	0.00017	0.00011	1.56E-05	Wasteland
Chir Pine	Branches	0.085	0.00017	0.00011	1.56E-05	Wasteland
<b>Total</b>		<b>0.085</b>	<b>0.14</b>	<b>0.093</b>	<b>0.013</b>	

<b>Taluk level Residue-wise Data for Kapurthala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.1	0.17	0.11	0.016	Wasteland
Catechu	Twigs	1.1	0.15	0.098	0.014	Wasteland
Catechu	Bark	1.1	0.15	0.098	0.014	Wasteland
Catechu	Branches	1.1	0.15	0.098	0.014	Wasteland
Babul	Leaves	1.1	0.13	0.083	0.012	Wasteland
Others	Leaves	1.1	0.11	0.075	0.010	Wasteland
Babul	Twigs	1.1	0.11	0.071	0.0099	Wasteland
Babul	Bark	1.1	0.11	0.071	0.0099	Wasteland
Babul	Branches	1.1	0.11	0.071	0.0099	Wasteland
Others	Twigs	1.1	0.097	0.064	0.0089	Wasteland
Others	Bark	1.1	0.097	0.064	0.0089	Wasteland
Others	Branches	1.1	0.097	0.064	0.0089	Wasteland
Eucalyptus	Leaves	1.1	0.094	0.062	0.0087	Wasteland
Eucalyptus	Twigs	1.1	0.080	0.053	0.0074	Wasteland
Eucalyptus	Bark	1.1	0.080	0.053	0.0074	Wasteland
Eucalyptus	Branches	1.1	0.080	0.053	0.0074	Wasteland
Shisham	Leaves	1.1	0.0094	0.0062	0.00087	Wasteland
Shisham	Twigs	1.1	0.0081	0.0053	0.00075	Wasteland
Shisham	Bark	1.1	0.0081	0.0053	0.00075	Wasteland
Shisham	Branches	1.1	0.0081	0.0053	0.00075	Wasteland
White Mulberry	Leaves	1.1	0.0053	0.0035	0.00049	Wasteland
White Mulberry	Twigs	1.1	0.0045	0.0030	0.00041	Wasteland
White Mulberry	Bark	1.1	0.0045	0.0030	0.00041	Wasteland
White Mulberry	Branches	1.1	0.0045	0.0030	0.00041	Wasteland
Chir Pine	Leaves	1.1	0.0026	0.0017	0.00024	Wasteland
Chir Pine	Twigs	1.1	0.0022	0.0015	0.00021	Wasteland
Chir Pine	Bark	1.1	0.0022	0.0015	0.00021	Wasteland
Chir Pine	Branches	1.1	0.0022	0.0015	0.00021	Wasteland
<b>Total</b>		<b>1.1</b>	<b>1.9</b>	<b>1.2</b>	<b>0.17</b>	

<b>Taluk level Residue-wise Data for Sultanpur Lodhi ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.19	0.058	0.038	0.0054	Wasteland
Catechu	Twigs	0.19	0.050	0.033	0.0046	Wasteland
Catechu	Bark	0.19	0.050	0.033	0.0046	Wasteland
Catechu	Branches	0.19	0.050	0.033	0.0046	Wasteland
Babul	Leaves	0.19	0.042	0.028	0.0039	Wasteland
Others	Leaves	0.19	0.038	0.025	0.0035	Wasteland
Babul	Twigs	0.19	0.036	0.024	0.0033	Wasteland
Babul	Bark	0.19	0.036	0.024	0.0033	Wasteland
Babul	Branches	0.19	0.036	0.024	0.0033	Wasteland
Others	Twigs	0.19	0.033	0.021	0.0030	Wasteland
Others	Bark	0.19	0.033	0.021	0.0030	Wasteland
Others	Branches	0.19	0.033	0.021	0.0030	Wasteland
Eucalyptus	Leaves	0.19	0.031	0.021	0.0029	Wasteland
Eucalyptus	Twigs	0.19	0.027	0.018	0.0025	Wasteland
Eucalyptus	Bark	0.19	0.027	0.018	0.0025	Wasteland
Eucalyptus	Branches	0.19	0.027	0.018	0.0025	Wasteland
Shisham	Leaves	0.19	0.0032	0.0021	0.00029	Wasteland
Shisham	Twigs	0.19	0.0027	0.0018	0.00025	Wasteland
Shisham	Bark	0.19	0.0027	0.0018	0.00025	Wasteland
Shisham	Branches	0.19	0.0027	0.0018	0.00025	Wasteland
White Mulberry	Leaves	0.19	0.0018	0.0012	0.00016	Wasteland
White Mulberry	Twigs	0.19	0.0015	0.00099	0.00014	Wasteland
White Mulberry	Bark	0.19	0.0015	0.00099	0.00014	Wasteland
White Mulberry	Branches	0.19	0.0015	0.00099	0.00014	Wasteland
Chir Pine	Leaves	0.19	0.00088	0.00058	8.11E-05	Wasteland
Chir Pine	Twigs	0.19	0.00075	0.00050	6.95E-05	Wasteland
Chir Pine	Bark	0.19	0.00075	0.00050	6.95E-05	Wasteland
Chir Pine	Branches	0.19	0.00075	0.00050	6.95E-05	Wasteland
<b>Total</b>		<b>0.19</b>	<b>0.63</b>	<b>0.41</b>	<b>0.058</b>	

<b>Taluk level Residue-wise Data for Jagraon ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.17	0.027	0.017	0.0024	Wasteland
Catechu	Twigs	0.17	0.023	0.015	0.0021	Wasteland
Catechu	Bark	0.17	0.023	0.015	0.0021	Wasteland
Catechu	Branches	0.17	0.023	0.015	0.0021	Wasteland
Babul	Leaves	0.17	0.019	0.013	0.0018	Wasteland
Others	Leaves	0.17	0.017	0.011	0.0016	Wasteland
Babul	Twigs	0.17	0.016	0.011	0.0015	Wasteland
Babul	Bark	0.17	0.016	0.011	0.0015	Wasteland
Babul	Branches	0.17	0.016	0.011	0.0015	Wasteland
Others	Twigs	0.17	0.015	0.0098	0.0014	Wasteland
Others	Bark	0.17	0.015	0.0098	0.0014	Wasteland
Others	Branches	0.17	0.015	0.0098	0.0014	Wasteland
Eucalyptus	Leaves	0.17	0.014	0.0095	0.0013	Wasteland
Eucalyptus	Twigs	0.17	0.012	0.0081	0.0011	Wasteland
Eucalyptus	Bark	0.17	0.012	0.0081	0.0011	Wasteland
Eucalyptus	Branches	0.17	0.012	0.0081	0.0011	Wasteland
Shisham	Leaves	0.17	0.0014	0.00095	0.00013	Wasteland
Shisham	Twigs	0.17	0.0012	0.00082	0.00011	Wasteland
Shisham	Bark	0.17	0.0012	0.00082	0.00011	Wasteland
Shisham	Branches	0.17	0.0012	0.00082	0.00011	Wasteland
White Mulberry	Leaves	0.17	0.00081	0.00053	7.44E-05	Wasteland
White Mulberry	Twigs	0.17	0.00069	0.00045	6.33E-05	Wasteland
White Mulberry	Bark	0.17	0.00069	0.00045	6.33E-05	Wasteland
White Mulberry	Branches	0.17	0.00069	0.00045	6.33E-05	Wasteland
Chir Pine	Leaves	0.17	0.00040	0.00026	3.70E-05	Wasteland
Chir Pine	Twigs	0.17	0.00034	0.00023	3.17E-05	Wasteland
Chir Pine	Bark	0.17	0.00034	0.00023	3.17E-05	Wasteland
Chir Pine	Branches	0.17	0.00034	0.00023	3.17E-05	Wasteland
<b>Total</b>		<b>0.17</b>	<b>0.29</b>	<b>0.19</b>	<b>0.026</b>	

**Taluk level Residue-wise Data for Ludhiana(East) ; Biomass Class :  
Wasteland**

<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.95	0.15	0.096	0.013	Wasteland
Catechu	Twigs	0.95	0.13	0.083	0.012	Wasteland
Catechu	Bark	0.95	0.13	0.083	0.012	Wasteland
Catechu	Branches	0.95	0.13	0.083	0.012	Wasteland
Babul	Leaves	0.95	0.11	0.070	0.0098	Wasteland
Others	Leaves	0.95	0.095	0.063	0.0088	Wasteland
Babul	Twigs	0.95	0.091	0.060	0.0084	Wasteland
Babul	Bark	0.95	0.091	0.060	0.0084	Wasteland
Babul	Branches	0.95	0.091	0.060	0.0084	Wasteland
Others	Twigs	0.95	0.082	0.054	0.0075	Wasteland
Others	Bark	0.95	0.082	0.054	0.0075	Wasteland
Others	Branches	0.95	0.082	0.054	0.0075	Wasteland
Eucalyptus	Leaves	0.95	0.079	0.052	0.0073	Wasteland
Eucalyptus	Twigs	0.95	0.068	0.045	0.0063	Wasteland
Eucalyptus	Bark	0.95	0.068	0.045	0.0063	Wasteland
Eucalyptus	Branches	0.95	0.068	0.045	0.0063	Wasteland
Shisham	Leaves	0.95	0.0079	0.0052	0.00073	Wasteland
Shisham	Twigs	0.95	0.0068	0.0045	0.00063	Wasteland
Shisham	Bark	0.95	0.0068	0.0045	0.00063	Wasteland
Shisham	Branches	0.95	0.0068	0.0045	0.00063	Wasteland
White Mulberry	Leaves	0.95	0.0044	0.0029	0.00041	Wasteland
White Mulberry	Twigs	0.95	0.0038	0.0025	0.00035	Wasteland
White Mulberry	Bark	0.95	0.0038	0.0025	0.00035	Wasteland
White Mulberry	Branches	0.95	0.0038	0.0025	0.00035	Wasteland
Chir Pine	Leaves	0.95	0.0022	0.0015	0.00020	Wasteland
Chir Pine	Twigs	0.95	0.0019	0.0012	0.00017	Wasteland
Chir Pine	Bark	0.95	0.0019	0.0012	0.00017	Wasteland
Chir Pine	Branches	0.95	0.0019	0.0012	0.00017	Wasteland
<b>Total</b>		<b>0.95</b>	<b>1.6</b>	<b>1.0</b>	<b>0.15</b>	

<b>Taluk level Residue-wise Data for Ludhiana(West) ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.58	0.090	0.059	0.0083	Wasteland
Catechu	Twigs	0.58	0.077	0.051	0.0071	Wasteland
Catechu	Bark	0.58	0.077	0.051	0.0071	Wasteland
Catechu	Branches	0.58	0.077	0.051	0.0071	Wasteland
Babul	Leaves	0.58	0.065	0.043	0.0060	Wasteland
Others	Leaves	0.58	0.059	0.039	0.0054	Wasteland
Babul	Twigs	0.58	0.056	0.037	0.0051	Wasteland
Babul	Bark	0.58	0.056	0.037	0.0051	Wasteland
Babul	Branches	0.58	0.056	0.037	0.0051	Wasteland
Others	Twigs	0.58	0.050	0.033	0.0046	Wasteland
Others	Bark	0.58	0.050	0.033	0.0046	Wasteland
Others	Branches	0.58	0.050	0.033	0.0046	Wasteland
Eucalyptus	Leaves	0.58	0.048	0.032	0.0045	Wasteland
Eucalyptus	Twigs	0.58	0.042	0.027	0.0038	Wasteland
Eucalyptus	Bark	0.58	0.042	0.027	0.0038	Wasteland
Eucalyptus	Branches	0.58	0.042	0.027	0.0038	Wasteland
Shisham	Leaves	0.58	0.0049	0.0032	0.00045	Wasteland
Shisham	Twigs	0.58	0.0042	0.0028	0.00039	Wasteland
Shisham	Bark	0.58	0.0042	0.0028	0.00039	Wasteland
Shisham	Branches	0.58	0.0042	0.0028	0.00039	Wasteland
White Mulberry	Leaves	0.58	0.0027	0.0018	0.00025	Wasteland
White Mulberry	Twigs	0.58	0.0023	0.0015	0.00021	Wasteland
White Mulberry	Bark	0.58	0.0023	0.0015	0.00021	Wasteland
White Mulberry	Branches	0.58	0.0023	0.0015	0.00021	Wasteland
Chir Pine	Leaves	0.58	0.0014	0.00089	0.00013	Wasteland
Chir Pine	Twigs	0.58	0.0012	0.00077	0.00011	Wasteland
Chir Pine	Bark	0.58	0.0012	0.00077	0.00011	Wasteland
Chir Pine	Branches	0.58	0.0012	0.00077	0.00011	Wasteland
<b>Total</b>		<b>0.58</b>	<b>0.97</b>	<b>0.64</b>	<b>0.089</b>	

<b>Taluk level Residue-wise Data for Samrala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.16	0.024	0.016	0.0022	Wasteland
Catechu	Twigs	0.16	0.021	0.014	0.0019	Wasteland
Catechu	Bark	0.16	0.021	0.014	0.0019	Wasteland
Catechu	Branches	0.16	0.021	0.014	0.0019	Wasteland
Babul	Leaves	0.16	0.018	0.012	0.0016	Wasteland
Others	Leaves	0.16	0.016	0.010	0.0015	Wasteland
Babul	Twigs	0.16	0.015	0.0100	0.0014	Wasteland
Babul	Bark	0.16	0.015	0.0100	0.0014	Wasteland
Babul	Branches	0.16	0.015	0.0100	0.0014	Wasteland
Others	Twigs	0.16	0.014	0.0090	0.0013	Wasteland
Others	Bark	0.16	0.014	0.0090	0.0013	Wasteland
Others	Branches	0.16	0.014	0.0090	0.0013	Wasteland
Eucalyptus	Leaves	0.16	0.013	0.0087	0.0012	Wasteland
Eucalyptus	Twigs	0.16	0.011	0.0074	0.0010	Wasteland
Eucalyptus	Bark	0.16	0.011	0.0074	0.0010	Wasteland
Eucalyptus	Branches	0.16	0.011	0.0074	0.0010	Wasteland
Shisham	Leaves	0.16	0.0013	0.00087	0.00012	Wasteland
Shisham	Twigs	0.16	0.0011	0.00075	0.00010	Wasteland
Shisham	Bark	0.16	0.0011	0.00075	0.00010	Wasteland
Shisham	Branches	0.16	0.0011	0.00075	0.00010	Wasteland
White Mulberry	Leaves	0.16	0.00074	0.00049	6.82E-05	Wasteland
White Mulberry	Twigs	0.16	0.00063	0.00041	5.80E-05	Wasteland
White Mulberry	Bark	0.16	0.00063	0.00041	5.80E-05	Wasteland
White Mulberry	Branches	0.16	0.00063	0.00041	5.80E-05	Wasteland
Chir Pine	Leaves	0.16	0.00037	0.00024	3.39E-05	Wasteland
Chir Pine	Twigs	0.16	0.00031	0.00021	2.91E-05	Wasteland
Chir Pine	Bark	0.16	0.00031	0.00021	2.91E-05	Wasteland
Chir Pine	Branches	0.16	0.00031	0.00021	2.91E-05	Wasteland
<b>Total</b>		<b>0.16</b>	<b>0.26</b>	<b>0.17</b>	<b>0.024</b>	



<b>Taluk level Residue-wise Data for Budhlada ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.40	0.062	0.041	0.0057	Wasteland
Catechu	Twigs	0.40	0.053	0.035	0.0049	Wasteland
Catechu	Bark	0.40	0.053	0.035	0.0049	Wasteland
Catechu	Branches	0.40	0.053	0.035	0.0049	Wasteland
Babul	Leaves	0.40	0.045	0.030	0.0041	Wasteland
Others	Leaves	0.40	0.040	0.027	0.0037	Wasteland
Babul	Twigs	0.40	0.038	0.025	0.0036	Wasteland
Babul	Bark	0.40	0.038	0.025	0.0036	Wasteland
Babul	Branches	0.40	0.038	0.025	0.0036	Wasteland
Others	Twigs	0.40	0.035	0.023	0.0032	Wasteland
Others	Bark	0.40	0.035	0.023	0.0032	Wasteland
Others	Branches	0.40	0.035	0.023	0.0032	Wasteland
Eucalyptus	Leaves	0.40	0.033	0.022	0.0031	Wasteland
Eucalyptus	Twigs	0.40	0.029	0.019	0.0026	Wasteland
Eucalyptus	Bark	0.40	0.029	0.019	0.0026	Wasteland
Eucalyptus	Branches	0.40	0.029	0.019	0.0026	Wasteland
Shisham	Leaves	0.40	0.0034	0.0022	0.00031	Wasteland
Shisham	Twigs	0.40	0.0029	0.0019	0.00027	Wasteland
Shisham	Bark	0.40	0.0029	0.0019	0.00027	Wasteland
Shisham	Branches	0.40	0.0029	0.0019	0.00027	Wasteland
White Mulberry	Leaves	0.40	0.0019	0.0012	0.00017	Wasteland
White Mulberry	Twigs	0.40	0.0016	0.0011	0.00015	Wasteland
White Mulberry	Bark	0.40	0.0016	0.0011	0.00015	Wasteland
White Mulberry	Branches	0.40	0.0016	0.0011	0.00015	Wasteland
Chir Pine	Leaves	0.40	0.00093	0.00062	8.63E-05	Wasteland
Chir Pine	Twigs	0.40	0.00080	0.00053	7.40E-05	Wasteland
Chir Pine	Bark	0.40	0.00080	0.00053	7.40E-05	Wasteland
Chir Pine	Branches	0.40	0.00080	0.00053	7.40E-05	Wasteland
<b>Total</b>		<b>0.40</b>	<b>0.67</b>	<b>0.44</b>	<b>0.062</b>	

<b>Taluk level Residue-wise Data for Mansa ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.54	0.082	0.054	0.0076	Wasteland
Catechu	Twigs	0.54	0.071	0.047	0.0065	Wasteland
Catechu	Bark	0.54	0.071	0.047	0.0065	Wasteland
Catechu	Branches	0.54	0.071	0.047	0.0065	Wasteland
Babul	Leaves	0.54	0.060	0.039	0.0055	Wasteland
Others	Leaves	0.54	0.054	0.035	0.0050	Wasteland
Babul	Twigs	0.54	0.051	0.034	0.0047	Wasteland
Babul	Bark	0.54	0.051	0.034	0.0047	Wasteland
Babul	Branches	0.54	0.051	0.034	0.0047	Wasteland
Others	Twigs	0.54	0.046	0.030	0.0043	Wasteland
Others	Bark	0.54	0.046	0.030	0.0043	Wasteland
Others	Branches	0.54	0.046	0.030	0.0043	Wasteland
Eucalyptus	Leaves	0.54	0.044	0.029	0.0041	Wasteland
Eucalyptus	Twigs	0.54	0.038	0.025	0.0035	Wasteland
Eucalyptus	Bark	0.54	0.038	0.025	0.0035	Wasteland
Eucalyptus	Branches	0.54	0.038	0.025	0.0035	Wasteland
Shisham	Leaves	0.54	0.0045	0.0030	0.00041	Wasteland
Shisham	Twigs	0.54	0.0038	0.0025	0.00035	Wasteland
Shisham	Bark	0.54	0.0038	0.0025	0.00035	Wasteland
Shisham	Branches	0.54	0.0038	0.0025	0.00035	Wasteland
White Mulberry	Leaves	0.54	0.0025	0.0016	0.00023	Wasteland
White Mulberry	Twigs	0.54	0.0021	0.0014	0.00020	Wasteland
White Mulberry	Bark	0.54	0.0021	0.0014	0.00020	Wasteland
White Mulberry	Branches	0.54	0.0021	0.0014	0.00020	Wasteland
Chir Pine	Leaves	0.54	0.0012	0.00082	0.00011	Wasteland
Chir Pine	Twigs	0.54	0.0011	0.00070	9.84E-05	Wasteland
Chir Pine	Bark	0.54	0.0011	0.00070	9.84E-05	Wasteland
Chir Pine	Branches	0.54	0.0011	0.00070	9.84E-05	Wasteland
<b>Total</b>		<b>0.54</b>	<b>0.89</b>	<b>0.59</b>	<b>0.082</b>	

<b>Taluk level Residue-wise Data for Sardulgarh ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.9	0.29	0.19	0.027	Wasteland
Catechu	Twigs	1.9	0.25	0.16	0.023	Wasteland
Catechu	Bark	1.9	0.25	0.16	0.023	Wasteland
Catechu	Branches	1.9	0.25	0.16	0.023	Wasteland
Babul	Leaves	1.9	0.21	0.14	0.019	Wasteland
Others	Leaves	1.9	0.19	0.12	0.017	Wasteland
Babul	Twigs	1.9	0.18	0.12	0.017	Wasteland
Babul	Bark	1.9	0.18	0.12	0.017	Wasteland
Babul	Branches	1.9	0.18	0.12	0.017	Wasteland
Others	Twigs	1.9	0.16	0.11	0.015	Wasteland
Others	Bark	1.9	0.16	0.11	0.015	Wasteland
Others	Branches	1.9	0.16	0.11	0.015	Wasteland
Eucalyptus	Leaves	1.9	0.16	0.10	0.014	Wasteland
Eucalyptus	Twigs	1.9	0.13	0.088	0.012	Wasteland
Eucalyptus	Bark	1.9	0.13	0.088	0.012	Wasteland
Eucalyptus	Branches	1.9	0.13	0.088	0.012	Wasteland
Shisham	Leaves	1.9	0.016	0.010	0.0014	Wasteland
Shisham	Twigs	1.9	0.013	0.0089	0.0012	Wasteland
Shisham	Bark	1.9	0.013	0.0089	0.0012	Wasteland
Shisham	Branches	1.9	0.013	0.0089	0.0012	Wasteland
White Mulberry	Leaves	1.9	0.0088	0.0058	0.00081	Wasteland
White Mulberry	Twigs	1.9	0.0075	0.0049	0.00069	Wasteland
White Mulberry	Bark	1.9	0.0075	0.0049	0.00069	Wasteland
White Mulberry	Branches	1.9	0.0075	0.0049	0.00069	Wasteland
Chir Pine	Leaves	1.9	0.0044	0.0029	0.00040	Wasteland
Chir Pine	Twigs	1.9	0.0037	0.0025	0.00035	Wasteland
Chir Pine	Bark	1.9	0.0037	0.0025	0.00035	Wasteland
Chir Pine	Branches	1.9	0.0037	0.0025	0.00035	Wasteland
<b>Total</b>		<b>1.9</b>	<b>3.1</b>	<b>2.1</b>	<b>0.29</b>	

<b>Taluk level Residue-wise Data for Giddarbaha ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	1.1	0.17	0.11	0.015	Wasteland
Catechu	Twigs	1.1	0.14	0.094	0.013	Wasteland
Catechu	Bark	1.1	0.14	0.094	0.013	Wasteland
Catechu	Branches	1.1	0.14	0.094	0.013	Wasteland
Babul	Leaves	1.1	0.12	0.079	0.011	Wasteland
Others	Leaves	1.1	0.11	0.071	0.0100	Wasteland
Babul	Twigs	1.1	0.10	0.068	0.0095	Wasteland
Babul	Bark	1.1	0.10	0.068	0.0095	Wasteland
Babul	Branches	1.1	0.10	0.068	0.0095	Wasteland
Others	Twigs	1.1	0.093	0.061	0.0086	Wasteland
Others	Bark	1.1	0.093	0.061	0.0086	Wasteland
Others	Branches	1.1	0.093	0.061	0.0086	Wasteland
Eucalyptus	Leaves	1.1	0.090	0.059	0.0083	Wasteland
Eucalyptus	Twigs	1.1	0.077	0.051	0.0071	Wasteland
Eucalyptus	Bark	1.1	0.077	0.051	0.0071	Wasteland
Eucalyptus	Branches	1.1	0.077	0.051	0.0071	Wasteland
Shisham	Leaves	1.1	0.0090	0.0060	0.00083	Wasteland
Shisham	Twigs	1.1	0.0077	0.0051	0.00071	Wasteland
Shisham	Bark	1.1	0.0077	0.0051	0.00071	Wasteland
Shisham	Branches	1.1	0.0077	0.0051	0.00071	Wasteland
White Mulberry	Leaves	1.1	0.0050	0.0033	0.00047	Wasteland
White Mulberry	Twigs	1.1	0.0043	0.0028	0.00040	Wasteland
White Mulberry	Bark	1.1	0.0043	0.0028	0.00040	Wasteland
White Mulberry	Branches	1.1	0.0043	0.0028	0.00040	Wasteland
Chir Pine	Leaves	1.1	0.0025	0.0017	0.00023	Wasteland
Chir Pine	Twigs	1.1	0.0021	0.0014	0.00020	Wasteland
Chir Pine	Bark	1.1	0.0021	0.0014	0.00020	Wasteland
Chir Pine	Branches	1.1	0.0021	0.0014	0.00020	Wasteland
<b>Total</b>		<b>1.1</b>	<b>1.8</b>	<b>1.2</b>	<b>0.17</b>	

<b>Taluk level Residue-wise Data for Malout ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	3.0	0.45	0.30	0.042	Wasteland
Catechu	Twigs	3.0	0.39	0.26	0.036	Wasteland
Catechu	Bark	3.0	0.39	0.26	0.036	Wasteland
Catechu	Branches	3.0	0.39	0.26	0.036	Wasteland
Babul	Leaves	3.0	0.33	0.22	0.030	Wasteland
Others	Leaves	3.0	0.30	0.19	0.027	Wasteland
Babul	Twigs	3.0	0.28	0.19	0.026	Wasteland
Babul	Bark	3.0	0.28	0.19	0.026	Wasteland
Babul	Branches	3.0	0.28	0.19	0.026	Wasteland
Others	Twigs	3.0	0.25	0.17	0.023	Wasteland
Others	Bark	3.0	0.25	0.17	0.023	Wasteland
Others	Branches	3.0	0.25	0.17	0.023	Wasteland
Eucalyptus	Leaves	3.0	0.24	0.16	0.023	Wasteland
Eucalyptus	Twigs	3.0	0.21	0.14	0.019	Wasteland
Eucalyptus	Bark	3.0	0.21	0.14	0.019	Wasteland
Eucalyptus	Branches	3.0	0.21	0.14	0.019	Wasteland
Shisham	Leaves	3.0	0.025	0.016	0.0023	Wasteland
Shisham	Twigs	3.0	0.021	0.014	0.0019	Wasteland
Shisham	Bark	3.0	0.021	0.014	0.0019	Wasteland
Shisham	Branches	3.0	0.021	0.014	0.0019	Wasteland
White Mulberry	Leaves	3.0	0.014	0.0091	0.0013	Wasteland
White Mulberry	Twigs	3.0	0.012	0.0077	0.0011	Wasteland
White Mulberry	Bark	3.0	0.012	0.0077	0.0011	Wasteland
White Mulberry	Branches	3.0	0.012	0.0077	0.0011	Wasteland
Chir Pine	Leaves	3.0	0.0068	0.0045	0.00063	Wasteland
Chir Pine	Twigs	3.0	0.0059	0.0039	0.00054	Wasteland
Chir Pine	Bark	3.0	0.0059	0.0039	0.00054	Wasteland
Chir Pine	Branches	3.0	0.0059	0.0039	0.00054	Wasteland
<b>Total</b>		<b>3.0</b>	<b>4.9</b>	<b>3.2</b>	<b>0.45</b>	

<b>Taluk level Residue-wise Data for Muktsar ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.72	0.11	0.072	0.010	Wasteland
Catechu	Twigs	0.72	0.094	0.062	0.0087	Wasteland
Catechu	Bark	0.72	0.094	0.062	0.0087	Wasteland
Catechu	Branches	0.72	0.094	0.062	0.0087	Wasteland
Babul	Leaves	0.72	0.079	0.052	0.0073	Wasteland
Others	Leaves	0.72	0.072	0.047	0.0066	Wasteland
Babul	Twigs	0.72	0.068	0.045	0.0063	Wasteland
Babul	Bark	0.72	0.068	0.045	0.0063	Wasteland
Babul	Branches	0.72	0.068	0.045	0.0063	Wasteland
Others	Twigs	0.72	0.061	0.040	0.0057	Wasteland
Others	Bark	0.72	0.061	0.040	0.0057	Wasteland
Others	Branches	0.72	0.061	0.040	0.0057	Wasteland
Eucalyptus	Leaves	0.72	0.059	0.039	0.0055	Wasteland
Eucalyptus	Twigs	0.72	0.051	0.034	0.0047	Wasteland
Eucalyptus	Bark	0.72	0.051	0.034	0.0047	Wasteland
Eucalyptus	Branches	0.72	0.051	0.034	0.0047	Wasteland
Shisham	Leaves	0.72	0.0060	0.0039	0.00055	Wasteland
Shisham	Twigs	0.72	0.0051	0.0034	0.00047	Wasteland
Shisham	Bark	0.72	0.0051	0.0034	0.00047	Wasteland
Shisham	Branches	0.72	0.0051	0.0034	0.00047	Wasteland
White Mulberry	Leaves	0.72	0.0033	0.0022	0.00031	Wasteland
White Mulberry	Twigs	0.72	0.0028	0.0019	0.00026	Wasteland
White Mulberry	Bark	0.72	0.0028	0.0019	0.00026	Wasteland
White Mulberry	Branches	0.72	0.0028	0.0019	0.00026	Wasteland
Chir Pine	Leaves	0.72	0.0017	0.0011	0.00015	Wasteland
Chir Pine	Twigs	0.72	0.0014	0.00094	0.00013	Wasteland
Chir Pine	Bark	0.72	0.0014	0.00094	0.00013	Wasteland
Chir Pine	Branches	0.72	0.0014	0.00094	0.00013	Wasteland
<b>Total</b>		<b>0.72</b>	<b>1.2</b>	<b>0.78</b>	<b>0.11</b>	

<b>Taluk level Residue-wise Data for Balachaur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.12	0.019	0.012	0.0017	Wasteland
Catechu	Twigs	0.12	0.016	0.011	0.0015	Wasteland
Catechu	Bark	0.12	0.016	0.011	0.0015	Wasteland
Catechu	Branches	0.12	0.016	0.011	0.0015	Wasteland
Babul	Leaves	0.12	0.014	0.0090	0.0013	Wasteland
Others	Leaves	0.12	0.012	0.0081	0.0011	Wasteland
Babul	Twigs	0.12	0.012	0.0077	0.0011	Wasteland
Babul	Bark	0.12	0.012	0.0077	0.0011	Wasteland
Babul	Branches	0.12	0.012	0.0077	0.0011	Wasteland
Others	Twigs	0.12	0.011	0.0069	0.00097	Wasteland
Others	Bark	0.12	0.011	0.0069	0.00097	Wasteland
Others	Branches	0.12	0.011	0.0069	0.00097	Wasteland
Eucalyptus	Leaves	0.12	0.010	0.0067	0.00094	Wasteland
Eucalyptus	Twigs	0.12	0.0087	0.0058	0.00081	Wasteland
Eucalyptus	Bark	0.12	0.0087	0.0058	0.00081	Wasteland
Eucalyptus	Branches	0.12	0.0087	0.0058	0.00081	Wasteland
Shisham	Leaves	0.12	0.0010	0.00068	9.45E-05	Wasteland
Shisham	Twigs	0.12	0.00088	0.00058	8.10E-05	Wasteland
Shisham	Bark	0.12	0.00088	0.00058	8.10E-05	Wasteland
Shisham	Branches	0.12	0.00088	0.00058	8.10E-05	Wasteland
White Mulberry	Leaves	0.12	0.00057	0.00038	5.28E-05	Wasteland
White Mulberry	Twigs	0.12	0.00049	0.00032	4.49E-05	Wasteland
White Mulberry	Bark	0.12	0.00049	0.00032	4.49E-05	Wasteland
White Mulberry	Branches	0.12	0.00049	0.00032	4.49E-05	Wasteland
Chir Pine	Leaves	0.12	0.00028	0.00019	2.63E-05	Wasteland
Chir Pine	Twigs	0.12	0.00024	0.00016	2.25E-05	Wasteland
Chir Pine	Bark	0.12	0.00024	0.00016	2.25E-05	Wasteland
Chir Pine	Branches	0.12	0.00024	0.00016	2.25E-05	Wasteland
<b>Total</b>		<b>0.12</b>	<b>0.20</b>	<b>0.13</b>	<b>0.019</b>	

<b>Taluk level Residue-wise Data for Nawanshahr ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.18	0.028	0.018	0.0026	Wasteland
Catechu	Twigs	0.18	0.024	0.016	0.0022	Wasteland
Catechu	Bark	0.18	0.024	0.016	0.0022	Wasteland
Catechu	Branches	0.18	0.024	0.016	0.0022	Wasteland
Babul	Leaves	0.18	0.020	0.013	0.0019	Wasteland
Others	Leaves	0.18	0.018	0.012	0.0017	Wasteland
Babul	Twigs	0.18	0.017	0.011	0.0016	Wasteland
Babul	Bark	0.18	0.017	0.011	0.0016	Wasteland
Babul	Branches	0.18	0.017	0.011	0.0016	Wasteland
Others	Twigs	0.18	0.016	0.010	0.0014	Wasteland
Others	Bark	0.18	0.016	0.010	0.0014	Wasteland
Others	Branches	0.18	0.016	0.010	0.0014	Wasteland
Eucalyptus	Leaves	0.18	0.015	0.0099	0.0014	Wasteland
Eucalyptus	Twigs	0.18	0.013	0.0085	0.0012	Wasteland
Eucalyptus	Bark	0.18	0.013	0.0085	0.0012	Wasteland
Eucalyptus	Branches	0.18	0.013	0.0085	0.0012	Wasteland
Shisham	Leaves	0.18	0.0015	0.00100	0.00014	Wasteland
Shisham	Twigs	0.18	0.0013	0.00085	0.00012	Wasteland
Shisham	Bark	0.18	0.0013	0.00085	0.00012	Wasteland
Shisham	Branches	0.18	0.0013	0.00085	0.00012	Wasteland
White Mulberry	Leaves	0.18	0.00084	0.00056	7.79E-05	Wasteland
White Mulberry	Twigs	0.18	0.00072	0.00047	6.63E-05	Wasteland
White Mulberry	Bark	0.18	0.00072	0.00047	6.63E-05	Wasteland
White Mulberry	Branches	0.18	0.00072	0.00047	6.63E-05	Wasteland
Chir Pine	Leaves	0.18	0.00042	0.00028	3.88E-05	Wasteland
Chir Pine	Twigs	0.18	0.00036	0.00024	3.32E-05	Wasteland
Chir Pine	Bark	0.18	0.00036	0.00024	3.32E-05	Wasteland
Chir Pine	Branches	0.18	0.00036	0.00024	3.32E-05	Wasteland
<b>Total</b>		<b>0.18</b>	<b>0.30</b>	<b>0.20</b>	<b>0.028</b>	



<b>Taluk level Residue-wise Data for Dera Bassi ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.40	0.061	0.040	0.0056	Wasteland
Catechu	Twigs	0.40	0.052	0.034	0.0048	Wasteland
Catechu	Bark	0.40	0.052	0.034	0.0048	Wasteland
Catechu	Branches	0.40	0.052	0.034	0.0048	Wasteland
Babul	Leaves	0.40	0.044	0.029	0.0041	Wasteland
Others	Leaves	0.40	0.040	0.026	0.0037	Wasteland
Babul	Twigs	0.40	0.038	0.025	0.0035	Wasteland
Babul	Bark	0.40	0.038	0.025	0.0035	Wasteland
Babul	Branches	0.40	0.038	0.025	0.0035	Wasteland
Others	Twigs	0.40	0.034	0.022	0.0031	Wasteland
Others	Bark	0.40	0.034	0.022	0.0031	Wasteland
Others	Branches	0.40	0.034	0.022	0.0031	Wasteland
Eucalyptus	Leaves	0.40	0.033	0.022	0.0030	Wasteland
Eucalyptus	Twigs	0.40	0.028	0.019	0.0026	Wasteland
Eucalyptus	Bark	0.40	0.028	0.019	0.0026	Wasteland
Eucalyptus	Branches	0.40	0.028	0.019	0.0026	Wasteland
Shisham	Leaves	0.40	0.0033	0.0022	0.00030	Wasteland
Shisham	Twigs	0.40	0.0028	0.0019	0.00026	Wasteland
Shisham	Bark	0.40	0.0028	0.0019	0.00026	Wasteland
Shisham	Branches	0.40	0.0028	0.0019	0.00026	Wasteland
White Mulberry	Leaves	0.40	0.0018	0.0012	0.00017	Wasteland
White Mulberry	Twigs	0.40	0.0016	0.0010	0.00014	Wasteland
White Mulberry	Bark	0.40	0.0016	0.0010	0.00014	Wasteland
White Mulberry	Branches	0.40	0.0016	0.0010	0.00014	Wasteland
Chir Pine	Leaves	0.40	0.00091	0.00060	8.45E-05	Wasteland
Chir Pine	Twigs	0.40	0.00078	0.00052	7.25E-05	Wasteland
Chir Pine	Bark	0.40	0.00078	0.00052	7.25E-05	Wasteland
Chir Pine	Branches	0.40	0.00078	0.00052	7.25E-05	Wasteland
<b>Total</b>		<b>0.40</b>	<b>0.65</b>	<b>0.43</b>	<b>0.060</b>	

<b>Taluk level Residue-wise Data for Patiala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.32	0.097	0.064	0.0089	Wasteland
Catechu	Twigs	0.32	0.083	0.055	0.0077	Wasteland
Catechu	Bark	0.32	0.083	0.055	0.0077	Wasteland
Catechu	Branches	0.32	0.083	0.055	0.0077	Wasteland
Babul	Leaves	0.32	0.070	0.046	0.0065	Wasteland
Others	Leaves	0.32	0.063	0.042	0.0058	Wasteland
Babul	Twigs	0.32	0.060	0.040	0.0056	Wasteland
Babul	Bark	0.32	0.060	0.040	0.0056	Wasteland
Babul	Branches	0.32	0.060	0.040	0.0056	Wasteland
Others	Twigs	0.32	0.054	0.036	0.0050	Wasteland
Others	Bark	0.32	0.054	0.036	0.0050	Wasteland
Others	Branches	0.32	0.054	0.036	0.0050	Wasteland
Eucalyptus	Leaves	0.32	0.052	0.035	0.0048	Wasteland
Eucalyptus	Twigs	0.32	0.045	0.030	0.0041	Wasteland
Eucalyptus	Bark	0.32	0.045	0.030	0.0041	Wasteland
Eucalyptus	Branches	0.32	0.045	0.030	0.0041	Wasteland
Shisham	Leaves	0.32	0.0053	0.0035	0.00049	Wasteland
Shisham	Twigs	0.32	0.0045	0.0030	0.00042	Wasteland
Shisham	Bark	0.32	0.0045	0.0030	0.00042	Wasteland
Shisham	Branches	0.32	0.0045	0.0030	0.00042	Wasteland
White Mulberry	Leaves	0.32	0.0029	0.0019	0.00027	Wasteland
White Mulberry	Twigs	0.32	0.0025	0.0017	0.00023	Wasteland
White Mulberry	Bark	0.32	0.0025	0.0017	0.00023	Wasteland
White Mulberry	Branches	0.32	0.0025	0.0017	0.00023	Wasteland
Chir Pine	Leaves	0.32	0.0015	0.00096	0.00014	Wasteland
Chir Pine	Twigs	0.32	0.0013	0.00083	0.00012	Wasteland
Chir Pine	Bark	0.32	0.0013	0.00083	0.00012	Wasteland
Chir Pine	Branches	0.32	0.0013	0.00083	0.00012	Wasteland
<b>Total</b>		<b>0.32</b>	<b>1.0</b>	<b>0.69</b>	<b>0.096</b>	

<b>Taluk level Residue-wise Data for Samana ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.012	0.0019	0.0012	0.00017	Wasteland
Catechu	Twigs	0.012	0.0016	0.0011	0.00015	Wasteland
Catechu	Bark	0.012	0.0016	0.0011	0.00015	Wasteland
Catechu	Branches	0.012	0.0016	0.0011	0.00015	Wasteland
Babul	Leaves	0.012	0.0014	0.00090	0.00013	Wasteland
Others	Leaves	0.012	0.0012	0.00081	0.00011	Wasteland
Babul	Twigs	0.012	0.0012	0.00077	0.00011	Wasteland
Babul	Bark	0.012	0.0012	0.00077	0.00011	Wasteland
Babul	Branches	0.012	0.0012	0.00077	0.00011	Wasteland
Others	Twigs	0.012	0.0010	0.00069	9.69E-05	Wasteland
Others	Bark	0.012	0.0010	0.00069	9.69E-05	Wasteland
Others	Branches	0.012	0.0010	0.00069	9.69E-05	Wasteland
Eucalyptus	Leaves	0.012	0.0010	0.00067	9.37E-05	Wasteland
Eucalyptus	Twigs	0.012	0.00087	0.00057	8.03E-05	Wasteland
Eucalyptus	Bark	0.012	0.00087	0.00057	8.03E-05	Wasteland
Eucalyptus	Branches	0.012	0.00087	0.00057	8.03E-05	Wasteland
Shisham	Leaves	0.012	0.00010	6.73E-05	9.42E-06	Wasteland
Shisham	Twigs	0.012	8.74E-05	5.77E-05	8.08E-06	Wasteland
Shisham	Bark	0.012	8.74E-05	5.77E-05	8.08E-06	Wasteland
Shisham	Branches	0.012	8.74E-05	5.77E-05	8.08E-06	Wasteland
White Mulberry	Leaves	0.012	5.69E-05	3.76E-05	5.26E-06	Wasteland
White Mulberry	Twigs	0.012	4.85E-05	3.20E-05	4.48E-06	Wasteland
White Mulberry	Bark	0.012	4.85E-05	3.20E-05	4.48E-06	Wasteland
White Mulberry	Branches	0.012	4.85E-05	3.20E-05	4.48E-06	Wasteland
Chir Pine	Leaves	0.012	2.83E-05	1.87E-05	2.62E-06	Wasteland
Chir Pine	Twigs	0.012	2.43E-05	1.60E-05	2.24E-06	Wasteland
Chir Pine	Bark	0.012	2.43E-05	1.60E-05	2.24E-06	Wasteland
Chir Pine	Branches	0.012	2.43E-05	1.60E-05	2.24E-06	Wasteland
<b>Total</b>		<b>0.012</b>	<b>0.020</b>	<b>0.013</b>	<b>0.0019</b>	

**Taluk level Residue-wise Data for Anandpur Sahib ; Biomass Class :  
Wasteland**

Species	Biomass	Area (Kha)	Biomass Generation (Kt/Yr)	Biomass Surplus (Kt/Yr)	Power Potential (Mwe)	Biomass Class
Catechu	Leaves	0.51	0.078	0.052	0.0072	Wasteland
Catechu	Twigs	0.51	0.067	0.044	0.0062	Wasteland
Catechu	Bark	0.51	0.067	0.044	0.0062	Wasteland
Catechu	Branches	0.51	0.067	0.044	0.0062	Wasteland
Babul	Leaves	0.51	0.057	0.037	0.0052	Wasteland
Others	Leaves	0.51	0.051	0.034	0.0047	Wasteland
Babul	Twigs	0.51	0.049	0.032	0.0045	Wasteland
Babul	Bark	0.51	0.049	0.032	0.0045	Wasteland
Babul	Branches	0.51	0.049	0.032	0.0045	Wasteland
Others	Twigs	0.51	0.044	0.029	0.0040	Wasteland
Others	Bark	0.51	0.044	0.029	0.0040	Wasteland
Others	Branches	0.51	0.044	0.029	0.0040	Wasteland
Eucalyptus	Leaves	0.51	0.042	0.028	0.0039	Wasteland
Eucalyptus	Twigs	0.51	0.036	0.024	0.0034	Wasteland
Eucalyptus	Bark	0.51	0.036	0.024	0.0034	Wasteland
Eucalyptus	Branches	0.51	0.036	0.024	0.0034	Wasteland
Shisham	Leaves	0.51	0.0043	0.0028	0.00039	Wasteland
Shisham	Twigs	0.51	0.0036	0.0024	0.00034	Wasteland
Shisham	Bark	0.51	0.0036	0.0024	0.00034	Wasteland
Shisham	Branches	0.51	0.0036	0.0024	0.00034	Wasteland
White Mulberry	Leaves	0.51	0.0024	0.0016	0.00022	Wasteland
White Mulberry	Twigs	0.51	0.0020	0.0013	0.00019	Wasteland
White Mulberry	Bark	0.51	0.0020	0.0013	0.00019	Wasteland
White Mulberry	Branches	0.51	0.0020	0.0013	0.00019	Wasteland
Chir Pine	Leaves	0.51	0.0012	0.00078	0.00011	Wasteland
Chir Pine	Twigs	0.51	0.0010	0.00067	9.37E-05	Wasteland
Chir Pine	Bark	0.51	0.0010	0.00067	9.37E-05	Wasteland
Chir Pine	Branches	0.51	0.0010	0.00067	9.37E-05	Wasteland
<b>Total</b>		<b>0.51</b>	<b>0.84</b>	<b>0.56</b>	<b>0.078</b>	

<b>Taluk level Residue-wise Data for Rupnagar ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.79	0.24	0.16	0.022	Wasteland
Catechu	Twigs	0.79	0.21	0.14	0.019	Wasteland
Catechu	Bark	0.79	0.21	0.14	0.019	Wasteland
Catechu	Branches	0.79	0.21	0.14	0.019	Wasteland
Babul	Leaves	0.79	0.18	0.12	0.016	Wasteland
Others	Leaves	0.79	0.16	0.10	0.015	Wasteland
Babul	Twigs	0.79	0.15	0.100	0.014	Wasteland
Babul	Bark	0.79	0.15	0.100	0.014	Wasteland
Babul	Branches	0.79	0.15	0.100	0.014	Wasteland
Others	Twigs	0.79	0.14	0.090	0.013	Wasteland
Others	Bark	0.79	0.14	0.090	0.013	Wasteland
Others	Branches	0.79	0.14	0.090	0.013	Wasteland
Eucalyptus	Leaves	0.79	0.13	0.087	0.012	Wasteland
Eucalyptus	Twigs	0.79	0.11	0.074	0.010	Wasteland
Eucalyptus	Bark	0.79	0.11	0.074	0.010	Wasteland
Eucalyptus	Branches	0.79	0.11	0.074	0.010	Wasteland
Shisham	Leaves	0.79	0.013	0.0087	0.0012	Wasteland
Shisham	Twigs	0.79	0.011	0.0075	0.0010	Wasteland
Shisham	Bark	0.79	0.011	0.0075	0.0010	Wasteland
Shisham	Branches	0.79	0.011	0.0075	0.0010	Wasteland
White Mulberry	Leaves	0.79	0.0074	0.0049	0.00068	Wasteland
White Mulberry	Twigs	0.79	0.0063	0.0041	0.00058	Wasteland
White Mulberry	Bark	0.79	0.0063	0.0041	0.00058	Wasteland
White Mulberry	Branches	0.79	0.0063	0.0041	0.00058	Wasteland
Chir Pine	Leaves	0.79	0.0037	0.0024	0.00034	Wasteland
Chir Pine	Twigs	0.79	0.0031	0.0021	0.00029	Wasteland
Chir Pine	Bark	0.79	0.0031	0.0021	0.00029	Wasteland
Chir Pine	Branches	0.79	0.0031	0.0021	0.00029	Wasteland
<b>Total</b>		<b>0.79</b>	<b>2.6</b>	<b>1.7</b>	<b>0.24</b>	

<b>Taluk level Residue-wise Data for S.A.S.Nagar(Mohali) ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.45	0.069	0.046	0.0064	Wasteland
Catechu	Twigs	0.45	0.059	0.039	0.0055	Wasteland
Catechu	Bark	0.45	0.059	0.039	0.0055	Wasteland
Catechu	Branches	0.45	0.059	0.039	0.0055	Wasteland
Babul	Leaves	0.45	0.050	0.033	0.0046	Wasteland
Others	Leaves	0.45	0.045	0.030	0.0042	Wasteland
Babul	Twigs	0.45	0.043	0.028	0.0040	Wasteland
Babul	Bark	0.45	0.043	0.028	0.0040	Wasteland
Babul	Branches	0.45	0.043	0.028	0.0040	Wasteland
Others	Twigs	0.45	0.039	0.026	0.0036	Wasteland
Others	Bark	0.45	0.039	0.026	0.0036	Wasteland
Others	Branches	0.45	0.039	0.026	0.0036	Wasteland
Eucalyptus	Leaves	0.45	0.037	0.025	0.0035	Wasteland
Eucalyptus	Twigs	0.45	0.032	0.021	0.0030	Wasteland
Eucalyptus	Bark	0.45	0.032	0.021	0.0030	Wasteland
Eucalyptus	Branches	0.45	0.032	0.021	0.0030	Wasteland
Shisham	Leaves	0.45	0.0038	0.0025	0.00035	Wasteland
Shisham	Twigs	0.45	0.0032	0.0021	0.00030	Wasteland
Shisham	Bark	0.45	0.0032	0.0021	0.00030	Wasteland
Shisham	Branches	0.45	0.0032	0.0021	0.00030	Wasteland
White Mulberry	Leaves	0.45	0.0021	0.0014	0.00019	Wasteland
White Mulberry	Twigs	0.45	0.0018	0.0012	0.00017	Wasteland
White Mulberry	Bark	0.45	0.0018	0.0012	0.00017	Wasteland
White Mulberry	Branches	0.45	0.0018	0.0012	0.00017	Wasteland
Chir Pine	Leaves	0.45	0.0010	0.00069	9.68E-05	Wasteland
Chir Pine	Twigs	0.45	0.00090	0.00059	8.30E-05	Wasteland
Chir Pine	Bark	0.45	0.00090	0.00059	8.30E-05	Wasteland
Chir Pine	Branches	0.45	0.00090	0.00059	8.30E-05	Wasteland
<b>Total</b>		<b>0.45</b>	<b>0.75</b>	<b>0.49</b>	<b>0.069</b>	

<b>Taluk level Residue-wise Data for Barnala ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.037	0.0056	0.0037	0.00052	Wasteland
Catechu	Twigs	0.037	0.0048	0.0032	0.00045	Wasteland
Catechu	Bark	0.037	0.0048	0.0032	0.00045	Wasteland
Catechu	Branches	0.037	0.0048	0.0032	0.00045	Wasteland
Babul	Leaves	0.037	0.0041	0.0027	0.00038	Wasteland
Others	Leaves	0.037	0.0037	0.0024	0.00034	Wasteland
Babul	Twigs	0.037	0.0035	0.0023	0.00032	Wasteland
Babul	Bark	0.037	0.0035	0.0023	0.00032	Wasteland
Babul	Branches	0.037	0.0035	0.0023	0.00032	Wasteland
Others	Twigs	0.037	0.0031	0.0021	0.00029	Wasteland
Others	Bark	0.037	0.0031	0.0021	0.00029	Wasteland
Others	Branches	0.037	0.0031	0.0021	0.00029	Wasteland
Eucalyptus	Leaves	0.037	0.0030	0.0020	0.00028	Wasteland
Eucalyptus	Twigs	0.037	0.0026	0.0017	0.00024	Wasteland
Eucalyptus	Bark	0.037	0.0026	0.0017	0.00024	Wasteland
Eucalyptus	Branches	0.037	0.0026	0.0017	0.00024	Wasteland
Shisham	Leaves	0.037	0.00031	0.00020	2.83E-05	Wasteland
Shisham	Twigs	0.037	0.00026	0.00017	2.43E-05	Wasteland
Shisham	Bark	0.037	0.00026	0.00017	2.43E-05	Wasteland
Shisham	Branches	0.037	0.00026	0.00017	2.43E-05	Wasteland
White Mulberry	Leaves	0.037	0.00017	0.00011	1.58E-05	Wasteland
White Mulberry	Twigs	0.037	0.00015	9.60E-05	1.34E-05	Wasteland
White Mulberry	Bark	0.037	0.00015	9.60E-05	1.34E-05	Wasteland
White Mulberry	Branches	0.037	0.00015	9.60E-05	1.34E-05	Wasteland
Chir Pine	Leaves	0.037	8.51E-05	5.61E-05	7.86E-06	Wasteland
Chir Pine	Twigs	0.037	7.29E-05	4.81E-05	6.74E-06	Wasteland
Chir Pine	Bark	0.037	7.29E-05	4.81E-05	6.74E-06	Wasteland
Chir Pine	Branches	0.037	7.29E-05	4.81E-05	6.74E-06	Wasteland
<b>Total</b>		<b>0.037</b>	<b>0.061</b>	<b>0.040</b>	<b>0.0056</b>	

<b>Taluk level Residue-wise Data for Sangrur ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.19	0.058	0.038	0.0054	Wasteland
Catechu	Twigs	0.19	0.050	0.033	0.0046	Wasteland
Catechu	Bark	0.19	0.050	0.033	0.0046	Wasteland
Catechu	Branches	0.19	0.050	0.033	0.0046	Wasteland
Babul	Leaves	0.19	0.042	0.028	0.0039	Wasteland
Others	Leaves	0.19	0.038	0.025	0.0035	Wasteland
Babul	Twigs	0.19	0.036	0.024	0.0033	Wasteland
Babul	Bark	0.19	0.036	0.024	0.0033	Wasteland
Babul	Branches	0.19	0.036	0.024	0.0033	Wasteland
Others	Twigs	0.19	0.033	0.021	0.0030	Wasteland
Others	Bark	0.19	0.033	0.021	0.0030	Wasteland
Others	Branches	0.19	0.033	0.021	0.0030	Wasteland
Eucalyptus	Leaves	0.19	0.031	0.021	0.0029	Wasteland
Eucalyptus	Twigs	0.19	0.027	0.018	0.0025	Wasteland
Eucalyptus	Bark	0.19	0.027	0.018	0.0025	Wasteland
Eucalyptus	Branches	0.19	0.027	0.018	0.0025	Wasteland
Shisham	Leaves	0.19	0.0032	0.0021	0.00029	Wasteland
Shisham	Twigs	0.19	0.0027	0.0018	0.00025	Wasteland
Shisham	Bark	0.19	0.0027	0.0018	0.00025	Wasteland
Shisham	Branches	0.19	0.0027	0.0018	0.00025	Wasteland
White Mulberry	Leaves	0.19	0.0018	0.0012	0.00016	Wasteland
White Mulberry	Twigs	0.19	0.0015	0.00099	0.00014	Wasteland
White Mulberry	Bark	0.19	0.0015	0.00099	0.00014	Wasteland
White Mulberry	Branches	0.19	0.0015	0.00099	0.00014	Wasteland
Chir Pine	Leaves	0.19	0.00088	0.00058	8.12E-05	Wasteland
Chir Pine	Twigs	0.19	0.00075	0.00050	6.96E-05	Wasteland
Chir Pine	Bark	0.19	0.00075	0.00050	6.96E-05	Wasteland
Chir Pine	Branches	0.19	0.00075	0.00050	6.96E-05	Wasteland
<b>Total</b>		<b>0.19</b>	<b>0.63</b>	<b>0.41</b>	<b>0.058</b>	



<b>Taluk level Residue-wise Data for Sunam ; Biomass Class : Wasteland</b>						
<b>Species</b>	<b>Biomass</b>	<b>Area (Kha)</b>	<b>Biomass Generation (Kt/Yr)</b>	<b>Biomass Surplus (Kt/Yr)</b>	<b>Power Potential (Mwe)</b>	<b>Biomass Class</b>
Catechu	Leaves	0.029	0.0044	0.0029	0.00041	Wasteland
Catechu	Twigs	0.029	0.0038	0.0025	0.00035	Wasteland
Catechu	Bark	0.029	0.0038	0.0025	0.00035	Wasteland
Catechu	Branches	0.029	0.0038	0.0025	0.00035	Wasteland
Babul	Leaves	0.029	0.0032	0.0021	0.00030	Wasteland
Others	Leaves	0.029	0.0029	0.0019	0.00027	Wasteland
Babul	Twigs	0.029	0.0027	0.0018	0.00025	Wasteland
Babul	Bark	0.029	0.0027	0.0018	0.00025	Wasteland
Babul	Branches	0.029	0.0027	0.0018	0.00025	Wasteland
Others	Twigs	0.029	0.0025	0.0016	0.00023	Wasteland
Others	Bark	0.029	0.0025	0.0016	0.00023	Wasteland
Others	Branches	0.029	0.0025	0.0016	0.00023	Wasteland
Eucalyptus	Leaves	0.029	0.0024	0.0016	0.00022	Wasteland
Eucalyptus	Twigs	0.029	0.0020	0.0014	0.00019	Wasteland
Eucalyptus	Bark	0.029	0.0020	0.0014	0.00019	Wasteland
Eucalyptus	Branches	0.029	0.0020	0.0014	0.00019	Wasteland
Shisham	Leaves	0.029	0.00024	0.00016	2.22E-05	Wasteland
Shisham	Twigs	0.029	0.00021	0.00014	1.90E-05	Wasteland
Shisham	Bark	0.029	0.00021	0.00014	1.90E-05	Wasteland
Shisham	Branches	0.029	0.00021	0.00014	1.90E-05	Wasteland
White Mulberry	Leaves	0.029	0.00013	8.85E-05	1.24E-05	Wasteland
White Mulberry	Twigs	0.029	0.00011	7.53E-05	1.05E-05	Wasteland
White Mulberry	Bark	0.029	0.00011	7.53E-05	1.05E-05	Wasteland
White Mulberry	Branches	0.029	0.00011	7.53E-05	1.05E-05	Wasteland
Chir Pine	Leaves	0.029	6.67E-05	4.40E-05	6.16E-06	Wasteland
Chir Pine	Twigs	0.029	5.72E-05	3.77E-05	5.28E-06	Wasteland
Chir Pine	Bark	0.029	5.72E-05	3.77E-05	5.28E-06	Wasteland
Chir Pine	Branches	0.029	5.72E-05	3.77E-05	5.28E-06	Wasteland
<b>Total</b>		<b>0.029</b>	<b>0.048</b>	<b>0.031</b>	<b>0.0044</b>	

**Note:****Agro, Kharif, Rabi and Yearly**

'Others' contributes to collection of crops whose Power Potential is less than 0.05MWyre. These residues will not be separately listed instead they are aggregated into 'Others'.

The Tolerance for the above data at Taluk level is about 25%. The residue-wise data at taluk level may have a tolerance of more than 25% depending on spatial availability of agro-area and spatial aggregation as compared to statistically reported crop area. District Survey instituted by MNRE [Ministry of New & Renewable Energy] was done and biomass was reported for period beyond 1999 of the States country wide. The updated crop data at the district level is used as an input to construct the Biomass Atlas enabling spatial extraction of the biomass data tables above.

**Forest and Wastelands:**

The species wise area will be same for each class of forest because of the fact that the species are heterogeneously distributed in each packet of a state as given by FSI (Forest Survey of India). The assessed biomass potential for wasteland is a projection based on the species in a-forested area. For this assessment wasteland is considered as an extension of forest lands.