

Pilot Area	France - Region Auvergne-Rhône-Alpes
Databases	National Statistical database 2018 - 2020
Webinars/articles	
Partner	Partners of the Rural Bio Up Project: Vegepolys Valley /Italia

Agro-forestry and aquatic dedicated crops								
Biomass Category	Plant	Theoretical amount (t/year)	Traditional uses	Main utilization as BBPs	Possible future innovative utilization	Available amount of Biomass for BBPs (t/year)	Incentives (Yes/No)	Notes
Woody crops	Coniferous	0	paper industry, building sector, energy		Advanced biofuels, Biomaterials	0		
					Advanced biofuels, Biomaterials	0		
					Advanced biofuels, Biomaterials	0		
	SRF - Short Rotation Coppice	0			Advanced biofuels, Biomaterials	0		
					Advanced biofuels, Biomaterials	0		
	Non-coniferous	0	paper industry, building sector, energy		Advanced biofuels, Biomaterials	0		
Herbaceous crops (note o part of the crops used)	Wheat	1.127.500	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	5.638		
	Barley	312.400	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	1.562		
	Grain maize	984.200	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	4.920		
	Triticale	233.760	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	1.169		
	Rye	32.390	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	162		
	Oat	15.120	food		Nutraceutical, Cosmetics, biopackaging and biomaterials	76		
	Potatoes	87.980	food		Biopackaging/Bioplastics, Biomaterials, Chemical Building blocks	290		
	Medicinal plants	0	pharmacy		Pharma, Cosmetic, Nutraceutical	0		
	Hemp (fiber)	256	textile		Textile, Biomaterials, Biopackaging	1		
	Flax (fiber)	0	textile		Textile, Biomaterials, Biopackaging	0		
	Fodder crops on arable land, in hay	0	cattle breeding		Textile, Biomaterials, Biopackaging, Advanced biofuels	0		
	Permanent grassland, in hay	0	cattle breeding		Textile, Biomaterials, Biopackaging, Advanced biofuels	0		
	Rape (oil seed)	75.600	food, pharmacy, biofuel		Biomaterials (biopackaging), Biofuels, Cosmetics	756		
	Sunflower (oil seed)	78.200	food, pharmacy, biofuel		Biomaterials (biopackaging), Biofuels, Cosmetics	782		
	Mustard for seed	0	food, pharmacy		Biomaterials (biopackaging), Biofuels, Cosmetics	0		
Oil Crops	Pisppry (mak)	0	food		Pharma, Cosmetic, Nutraceutical	0		
	Hemp (seed)	0	pharma, nutraceutical, food		Pharma, Nutraceutical, Cosmetics, novel foods and feed	0		
	Corn (oil seed)	0	pharma, cosmetic, food, biofuel		Cosmetics, Pharma, Novel food and feed	0		
	Common flax (for oil)	0	food, technical oil		Cosmetics, Pharma, Novel food and feed	0		
	Soya	36.400	food, nutraceutical		Cosmetics, Pharma, Novel food and feed	364		
	Algae Spirulina	0			Cosmetics, Pharma, Novel food and feed	0		
	Macro algae	0			Cosmetics, Pharma, Novel food and feed, Textile, Biomaterials	0		
Total Biomass		2.953.692,00				16.115,83		
Biomass residues								
Biomass Category	Biomass	Theoretical availability (t/year)	Traditional uses	Main utilization as BBPs	Possible future innovative utilization	Available amount of Biomass for BBPs (t/year)	Incentives (Yes/No)	Notes
Agriculture and forestry	Forest residues and chips	0	energy, building sector		Advanced biofuels, Biomaterials	0		
	Wheat - straw	1.025.000	cattle breeding		Advanced biofuels, Biomaterials	205.000		
	Barley - straw	355.000	cattle breeding		Advanced biofuels, Biomaterials	71.000		
	Grain maize - straw	960.000	cattle breeding		Advanced biofuels, Biomaterials	192.000		
	Triticale - straw	243.500	cattle breeding		Advanced biofuels, Biomaterials	48.700		
	Rye - straw	39.500	cattle breeding		Advanced biofuels, Biomaterials	7.900		
	Oat - straw	27.000	cattle breeding		Advanced biofuels, Biomaterials	5.400		
	Potatoes - waste	156.000	burying in land		Advanced biofuels, Biomaterials	98.280		
	Rape - straw	99.036	energy		Advanced biofuels, Biomaterials	62.393		
	Sunflower - straw	85.000	burying in land		Advanced biofuels, Biomaterials	53.550		
	Mustard for seed - straw	0	burying in land		Advanced biofuels, Biomaterials	0		
	Pisppry	0	burying in land		Advanced biofuels, Biomaterials	0		
	Hemp - straw / residues	256	burying in land (?)		Advanced biofuels, Biomaterials, Textile	51		
	Common flax - straw / residues	0	paper, building industry (?)		Advanced biofuels, Biomaterials, Textile	0		
	Total Biomass Residues	2.990.292				744.274		
Zootechnical	Bovine manure	0	fertilisation, energy (biogas)		Biofertilizers	0		
	Pig Manure/slurry	0	fertilisation, energy (biogas)		Biofertilizers	0		
	Horse Manure	0	fertilisation, energy (biogas)		Biofertilizers	0		
	Poultry Manure	0	fertilisation, energy (biogas)		Biofertilizers	0		
	Slaughter residues (meat, bone meal etc...)	0	energy, landfill (?)		Biofertilizers	0		
	Waste wool	190	...		Biomaterials	190		
Total Biomass Residues		190				190		
Sector	Biomass	Theoretical availability (t/year)	Traditional uses	Main utilization as BBPs	Possible future innovative utilization	Available amount of Biomass for BBPs (t/year)	Incentives (Yes/No)	Notes
Agro-industry	Olve residues	0	fertilisation, energy (biogas) (?)		Biofertilizers	0		
	milling residue	0	fertilisation, energy (biogas) (?)		Cosmetics, biomaterials, biofertilizers, advanced biofuels	0		
	Sugar beet crowns	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels and biomaterials	0		
	meat industry coproducts: sabbowry, L and Z	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	meat industry coproducts: Animal proteins	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	meat industry coproducts: lipid vesicle	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	Oil seed residues	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	Sugar beet pulps	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	Melasses	0	fertilisation, energy (biogas) (?)		Feed, biofertilizers, advanced biofuels	0		
	Total Biomass Residues	0				0		
	Acquatic biomass	0				0		
Urban Waste	green waste	0				0		
Other	0				0		

Total Biomass		17.832.264				760.183		
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