



BioBoost

Accelerating biobased horticulture

Annex 2 - BioBoost Inventory

Data on crop production and waste streams partner regions

In this excel spreadsheet designed by the BioBoost partnership crop data are collected and information about waste streams for each of the BioBoost partner regions.

The crops chosen for inclusion were tomatoes, lettuce, strawberries, peppers, cucumbers and aubergines. Data inputs include product area, number of growers, tonnes produced and waste produced.

The collecting of data had been carried out in the context of an inventory produced on behalf of BioBoost to gain an insight into the by-products of the horticultural industry. The aim of that inventory is to gain a better understanding of the three regions involved: Flanders region around Roeselare (Belgium), Westland region (Netherlands) and Lea Valley (UK) and with reference to Kent, to provide a joint basis for the partnership to shape effective actions to stimulate the circular economy in horticulture in these regions. The inventory serves as input for a project strategy and approaches developed at a later stage of the project.

The Inventory is published on the [BioBoost Website](#) December 2018.

CROPS			sub class*	notes	**Data	**any unknown = (u) or estimated = (e) data or zero =0			~ notes	\$\$ p=peat, r=rockwool, c=coir, h=hydroponic, s=soil, rc=recycled/recomposted							
BE	Destination	Type	Total area	State main county/ zone (& subsidiary) based on amount		Total Production (tonnes/annum)	growers in Flanders (except)	growers in Belgium	year data ass & source	% growth media u e.g. r50; p50	No. of months (total/12)	name rest (Ja, Fe ...)	LED used; if known (y/n)	media recy (y/n)	Total product wasted		
				Based on area [4] (ha)	Based on area [4] (ha)										Main type of (tonnes/ha)	(tonnes/an)	
Greenhouse vegetables																	
Tomato	Fresh	all	505 [1] 500 [4]	Antwerpen 273 West-Vlaandere	Antwerpen 392 West-Vlaanderen 48	247500 [1]	195 [2]	530 [2]	~	r98, s2 [4]	0 [3]	/			Foliage Low quality	30 [1] 10 [1]	15000 [1] 5000 [1]
Bell Pepper	Fresh		96,3 [4]	Antwerpen 20 producers	Antwerpen 86	25000 [1]	32 [2]	32 [2]	~		0 [3]	/			Foliage Low quality	25 [1] 6 [1]	2000 [1] 500 [1]
Cucumber			65 [3] 26 [4]	Antwerpen 17 p West-Vlaandere	West-Vlaandere Antwerpen 7,7 ha	27300 [3]	40 [2]	42 [2]	~		3 [3]	Jan, Feb, Dec			Foliage Production l	25 [3] 1 [3]	1.690
Aubergine			15,8 [4]	Antwerpen 5 pr	Antwerpen 11 h	6320 [3]	10 [2]	11 [2]	~		5 [3]	Jan, Feb, Mar, april, Dec			Not available		
Lettuce etc	Fresh		939 [1]			42100 [1]			~		0 [3]	/			Low quality	11 [1]	11000 [1]
	Greenhouse	[4] = kropsla, veld	227 [4]	West-Vlaandere	West-Vlaanderen	142,4 [4]	304 [2]	313 [2]	~								
	Outdoor	[4] = Kropsla en al	555,1 [4]	West-Vlaandere	Antwerpen 215,8 - West-Vlaander		102 [2]	155 [2]	~								
Strawberry	Fresh	All	1442 [1]			34900 [1]	495 [4]		~		6 [3]	Jan, Feb, Mar, Oct, Nov, Dec.			Low quality	1,3 [1]	2000 [1]
	Greenhouse		425 [4]		Antwerpen 189 [4]				~								
	Outdoor		886,8 [4]		Antwerpen 416 [4]				~								
Outdoor vegetables																	
Field Veg	(all)																
Brussels Spr	Industry [1]		2371 [1]	West-Vlaanderen	177 [2]	54500 [1]		262 [2]	~		6 [3]	Apr, May, Jun, Jul, Aug, Sept [3]			Foliage	50-70 [1]	142000 [1]
	Fresh [4]		280,6 [4]		West-Vlaanderen	141 [4]			~						Oversized an	3 [1]	6000 [1]
	Industry [4]		1701,5 [4]		West-Vlaanderen	1483 [4]			~								
Cauliflower	Fresh [1]	(all)	386 [1]	West-Vlaanderen	704 [2]	8500 [1]		837 [2]	~		4 [3]	Jan, Feb, Mar, Dec			Foliage and s	30 - 50 [1]	15000 [1]
		Glasshouse	7,5 [4]		Antwerpen 4,9 [4]				~						Undersized a	1 [1]	400 [1]
		Outdoor	486 [4]		West-Vlaanderen	240 [4]			~								
			3856 [1]		West-Vlaanderen	84500 [1]			~						Foliage and s	30 - 50 [1]	154000 [1]
		Outdoor	2700 [4]		West-Vlaanderen	2650 [4]			~						Cauliflower	3,5 - 5 [1]	16000 [1]
Broccoli	Fresh		1753 [4]	West-Vlaandere	West-Vlaanderen	1391 [4]		4 [2]	~								
	Industry		533 [4]		West-Vlaanderen	381 [4]			~								
Cabbage (W	Industry and fresh		1044 [1]			62400 [1]		8 [2]	~		3 [3]	Apr, May, June			Foliage	36 [1]	38000 [1]
	Fresh		375 [4]	West-Vlaandere	West-Vlaanderen	285 [4]			~						Outer cabbag	14 [1]	14000 [1]
	Industry		370,8 [4]		West-Vlaanderen	315 [4]			~								
Leek	Fresh		3811 [1]			152400 [1]		757 [2]	~						Upper green	20 - 30 [1]	95000 [1]
			1676 [4]	West-Vlaandere	West-Vlaanderen	1254,7 [4]			~								
			711 [1]		West-Vlaanderen	35600 [1]			~						Upper green	20 - 30 [1]	18000 [1]
			1066 [4]		West-Vlaanderen	952,6 [4]			~								
Beans	Industry		3566 [1]			48100 [1]		637 [2]	~		7 [3]	Jan, Feb, Mar, Apr, Oct, Nov, Dec			Foliage	10 - 30 [1]	71000 [1]
	Fresh	Greenhouse	1405 [4]	West-Vlaandere	West-Vlaanderen	918,6 [4]			~						Beans (rema	0,5 [1]	2000 [1]
		Outdoor	3,7 [4]		West-Vlaanderen	15,4 - Oost-Vlaanderen	14,2 [4]		~								
			96,5 [4]		West-Vlaanderen	33,6 [4]			~								
peas	Industry		2113 [4]	West-Vlaandere	Limburg 848,6 - West-Vlaanderen	763 [4]		601 [2]	~		10 [3]	Jan, Feb, Mar, Apr, Aug, Sept, Oct, Nov, Dec					
	Fresh		108,5 [4]		Limburg 73,7 [4]				~								
Belgian endive			-	West-Vlaanderen	4 [2]	35400 [1]		38 [2]	~						Outer leaves -		10000 [1]
Belgian endive roots			1212 [1] 751,7 [4]	West-Vlaandere	Vlaams-Brabant	36400 [1]		173 [2]	~						Forced roots	30 [1]	36000 [1]

Sources:

- [1] Kips L. (2017)
- [2] Agridirect (2016)
- [3] ILVO (2014)
- [4] FOD (2016)

