

## Annex 4

### Visualisation of the estimates as output of the model version 2.0 for the year 2020 for all MSs

Food supply chain stages:

PP = Primary Production

P&M = Processing & Manufacturing

R&D = Retail & Distribution

HH = Household consumption

FS = Foodservice consumption

#### Austria

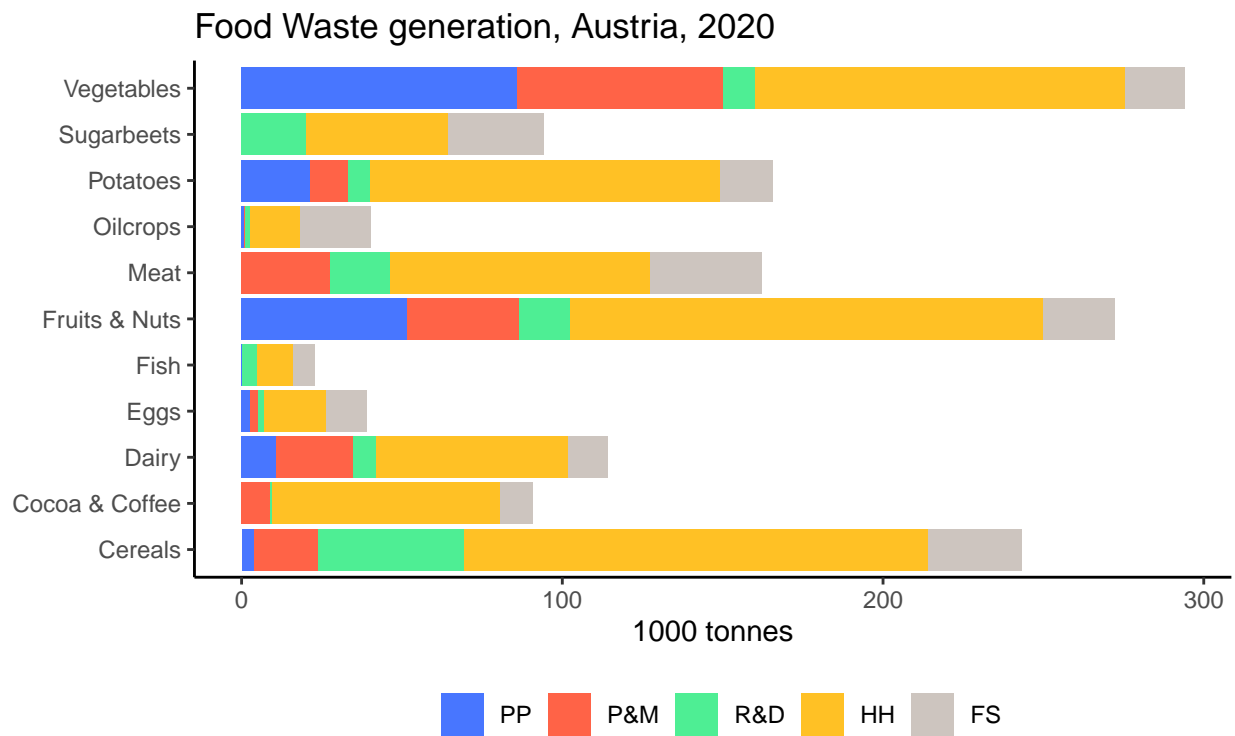


Table 1: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

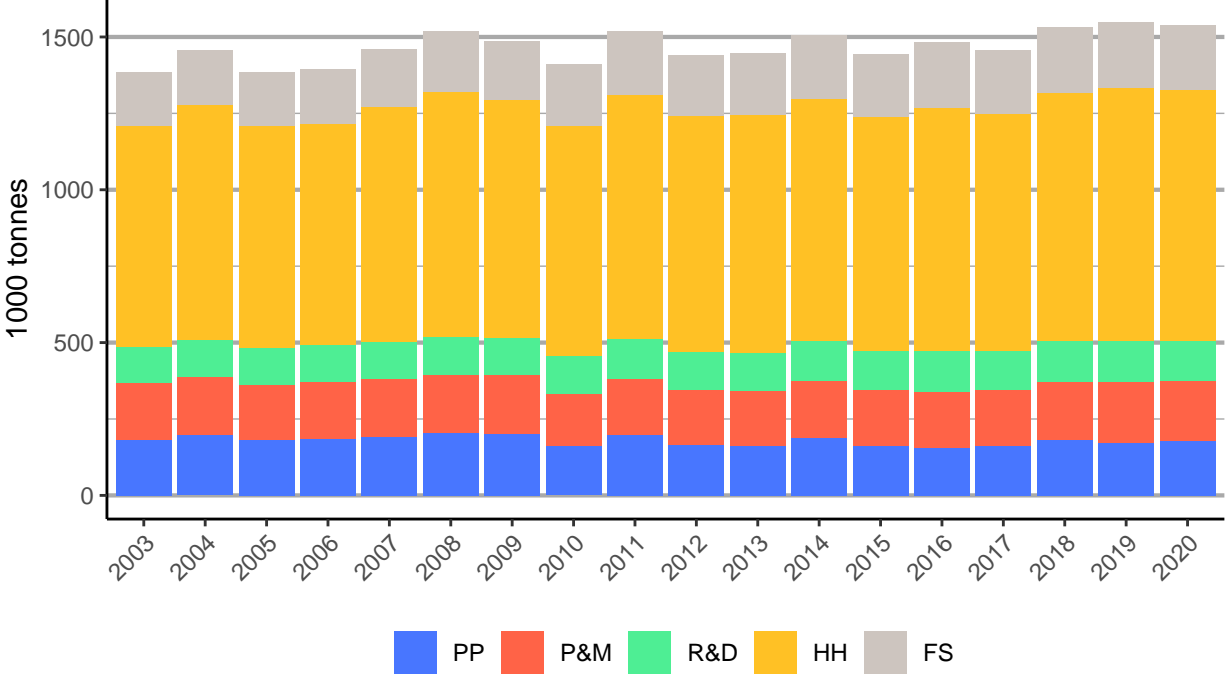
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2863.3	2035.2	33.1	674.9	NA
Fruits & Nuts	NA	56.1	44.7	140.3	NA

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Vegetables	74.2	10.0	81.3	63.0	NA
Potatoes	24.7	359.4	51.8	13.2	0.9
Sugarbeets	32.4	NA	32.4	175.2	0.0
Oilcrops	98.5	265.0	8.8	272.3	0.1
Meat	NA	NA	60.8	NA	441.6
Fish	31.6	0.0	1.8	0.0	NA
Dairy	281.4	NA	109.7	1044.7	NA
Eggs	NA	NA	2.7	NA	6.2
Cocoa & Coffee	NA	NA	NA	NA	17.0
Total	3406.1	2725.8	426.9	2383.5	465.9

Table 2: Per capita food waste generated at R&D, HH and FS.  
Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	5.1	16.3	3.3
Fruits & Nuts	1.8	16.6	2.5
Vegetables	1.1	13.0	2.1
Potatoes	0.8	12.3	1.8
Sugarbeets	2.3	5.0	3.4
Oilcrops	0.2	1.8	2.5
Meat	2.1	9.1	3.9
Fish	0.5	1.3	0.8
Dairy	0.8	6.7	1.4
Eggs	0.2	2.2	1.4
Cocoa & Coffee	0.1	8.0	1.1
Total	14.9	92.0	24.1

Food Waste timeline, Austria, 2003 – 2020



## Belgium

Food Waste generation, Belgium, 2020

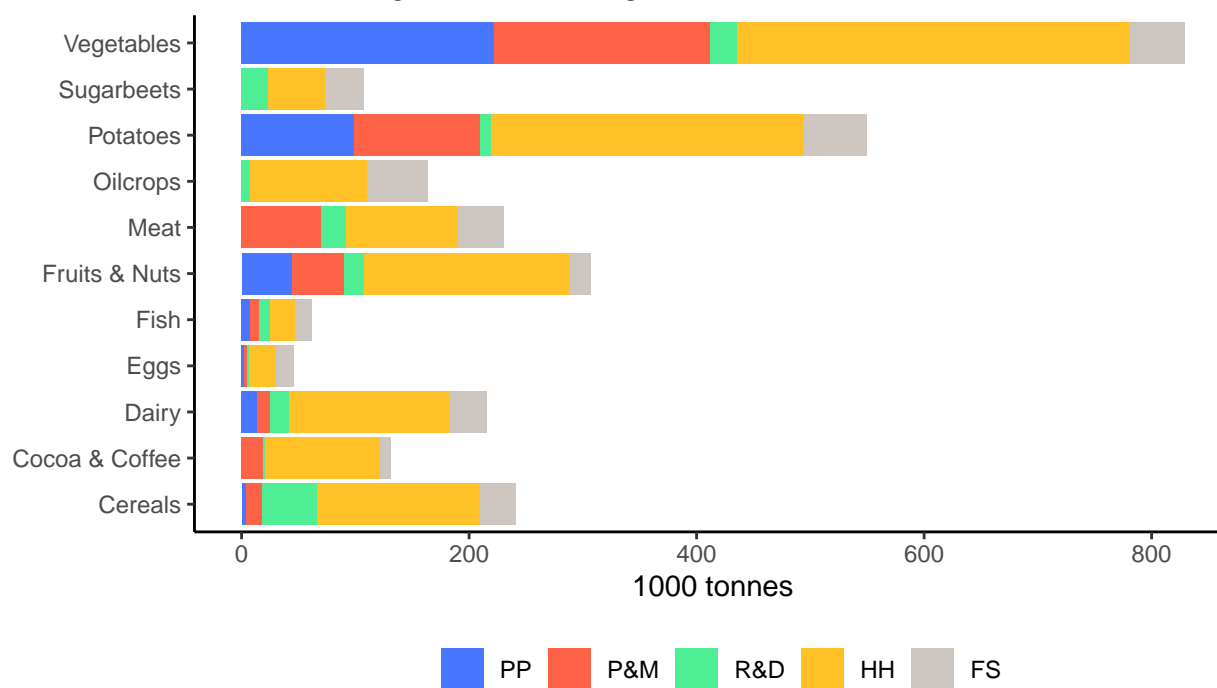


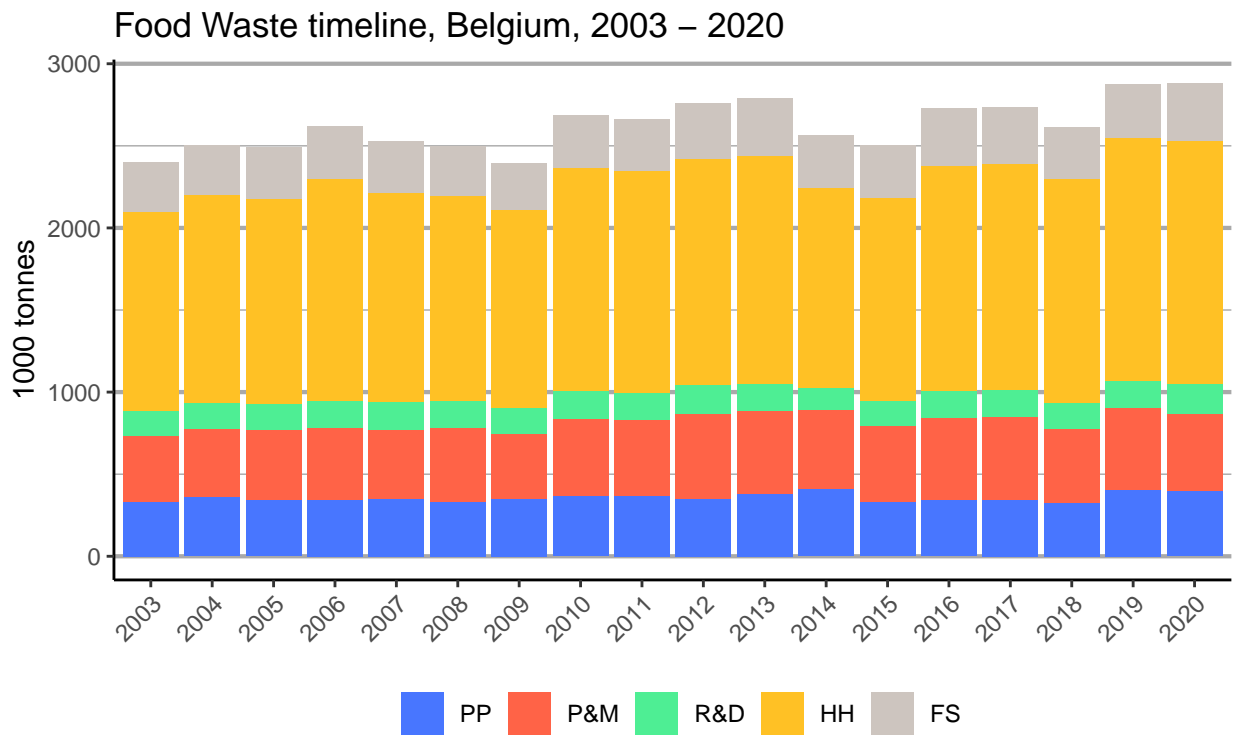
Table 3: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	3456.3	1624.9	30.0	1038.5	NA
Fruits & Nuts	0.8	49.7	54.8	59.6	NA
Vegetables	367.1	34.4	230.4	189.0	NA
Potatoes	1660.1	41.6	140.5	127.0	8.6
Sugarbeets	161.1	34.0	72.1	214.4	0.0
Oilcrops	429.8	1002.6	0.5	542.2	0.0
Meat	NA	NA	109.7	NA	695.9
Fish	19.0	0.3	0.6	17.8	NA
Dairy	121.4	4.9	136.2	506.4	NA
Eggs	NA	NA	2.2	NA	6.1
Cocoa & Coffee	NA	NA	NA	NA	22.4
Total	6215.5	2792.4	777.0	2694.9	733.0

Table 4: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.2	12.5	2.7
Fruits & Nuts	1.5	15.7	1.6
Vegetables	2.0	30.0	4.1

	R&D	HH	FS
Potatoes	0.8	23.9	4.7
Sugarbeets	2.0	4.4	3.0
Oilcrops	0.7	9.0	4.6
Meat	1.9	8.4	3.6
Fish	0.8	2.0	1.2
Dairy	1.5	12.2	2.8
Eggs	0.2	2.0	1.3
Cocoa & Coffee	0.1	8.8	0.8
Total	15.6	128.9	30.4



## Bulgaria

### Food Waste generation, Bulgaria, 2020

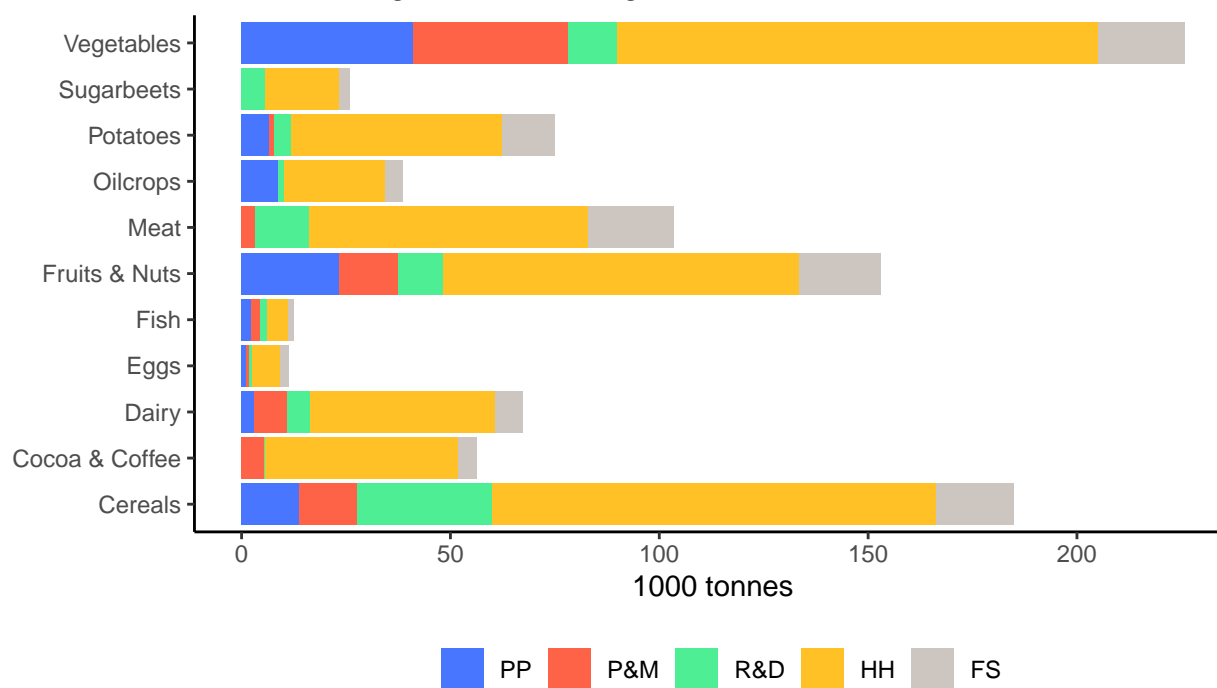


Table 5: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

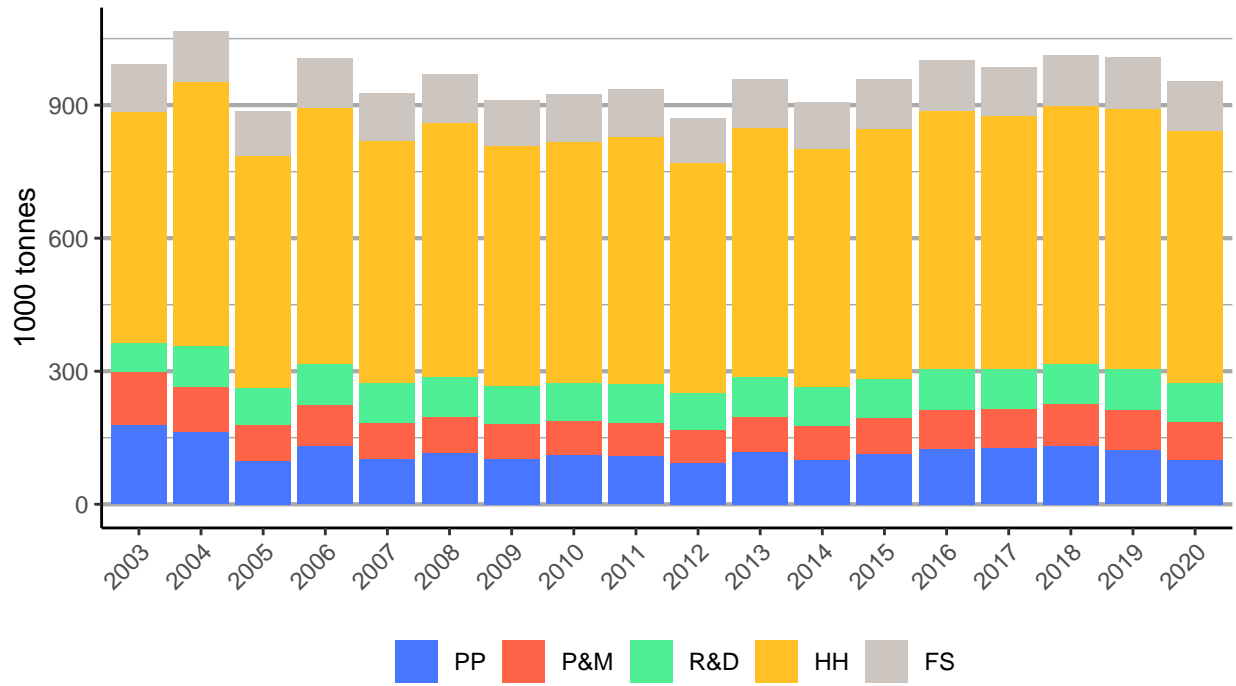
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	1341.0	377.9	102.4	629.0	NA
Fruits & Nuts	NA	27.9	27.1	52.7	NA
Vegetables	90.5	8.7	41.1	34.2	NA
Potatoes	7.9	3.7	9.4	1.4	0.1
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	101.6	97.0	78.2	1033.8	0.1
Meat	NA	NA	10.9	NA	159.5
Fish	9.2	0.0	7.7	4.6	NA
Dairy	46.2	NA	29.9	349.5	NA
Eggs	NA	NA	1.2	NA	1.7
Cocoa & Coffee	NA	NA	NA	NA	6.0
Total	1596.4	515.2	307.8	2105.2	167.4

Table 6: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.7	15.3	2.7
Fruits & Nuts	1.6	12.2	2.8
Vegetables	1.7	16.5	3.0

	R&D	HH	FS
Potatoes	0.6	7.3	1.8
Sugarbeets	0.8	2.5	0.4
Oilcrops	0.2	3.5	0.6
Meat	1.8	9.6	3.0
Fish	0.2	0.7	0.2
Dairy	0.8	6.4	0.9
Eggs	0.1	1.0	0.3
Cocoa & Coffee	0.0	6.7	0.7
Total	12.5	81.8	16.3

Food Waste timeline, Bulgaria, 2003 – 2020



## Croatia

### Food Waste generation, Croatia, 2020

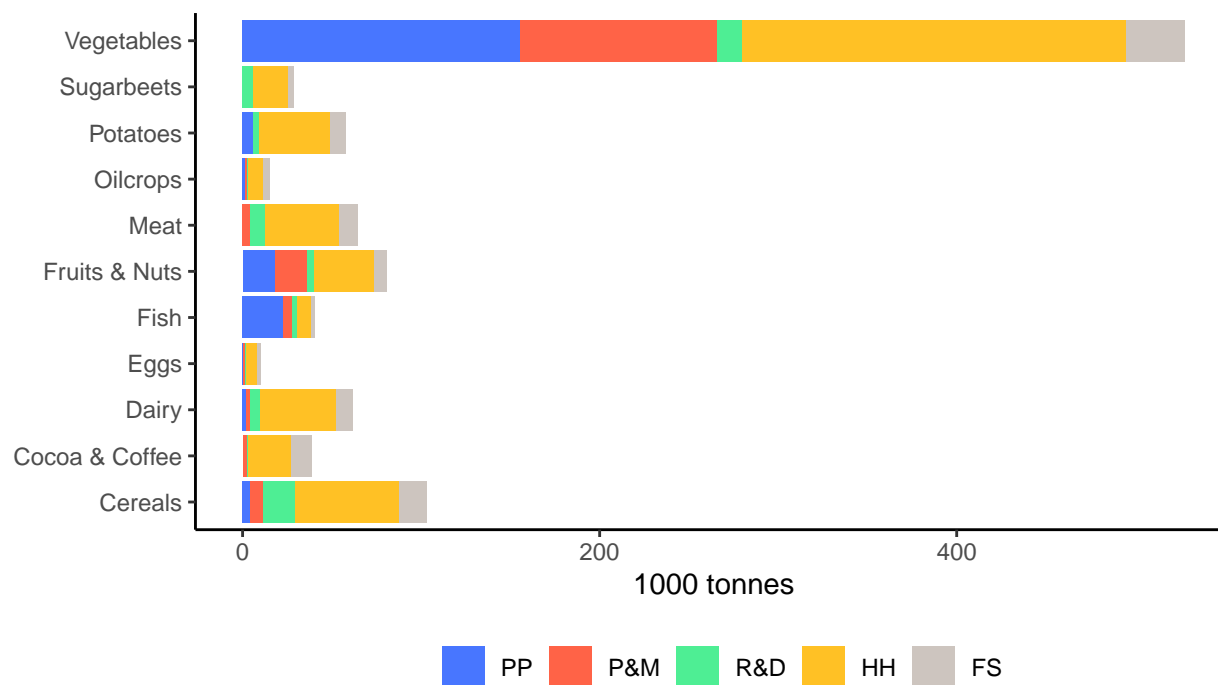


Table 7: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	1404.4	5.4	34.2	232.3	NA
Fruits & Nuts	NA	21.0	16.6	50.9	NA
Vegetables	115.3	18.1	185.4	109.5	NA
Potatoes	6.4	2.5	8.5	0.0	0.0
Sugarbeets	12.0	NA	12.0	53.8	0.0
Oilcrops	16.9	52.6	16.8	97.7	9.4
Meat	NA	NA	16.8	NA	142.7
Fish	2.5	NA	6.5	11.3	NA
Dairy	8.2	0.8	18.8	103.4	NA
Eggs	NA	NA	0.7	NA	1.6
Cocoa & Coffee	NA	NA	NA	NA	5.3
Total	1565.7	100.5	316.3	658.9	159.0

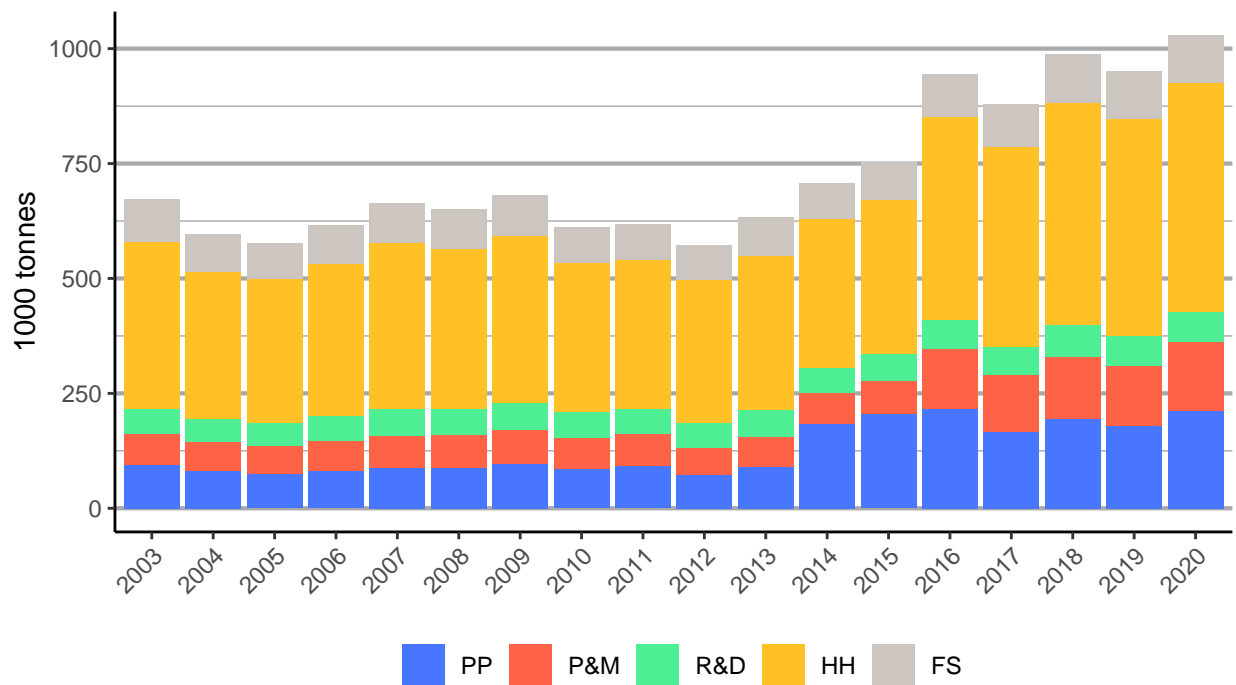
Table 8: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.5	14.2	3.8
Fruits & Nuts	1.1	8.1	1.8
Vegetables	3.5	53.0	8.1



	R&D	HH	FS
Potatoes	0.8	9.8	2.2
Sugarbeets	1.6	4.8	0.7
Oilcrops	0.1	2.1	0.9
Meat	2.1	10.2	2.6
Fish	0.7	2.0	0.5
Dairy	1.4	10.4	2.3
Eggs	0.1	1.6	0.5
Cocoa & Coffee	0.0	6.0	2.8
Total	16.1	122.3	26.1

Food Waste timeline, Croatia, 2003 – 2020



## Cyprus

### Food Waste generation, Cyprus, 2020

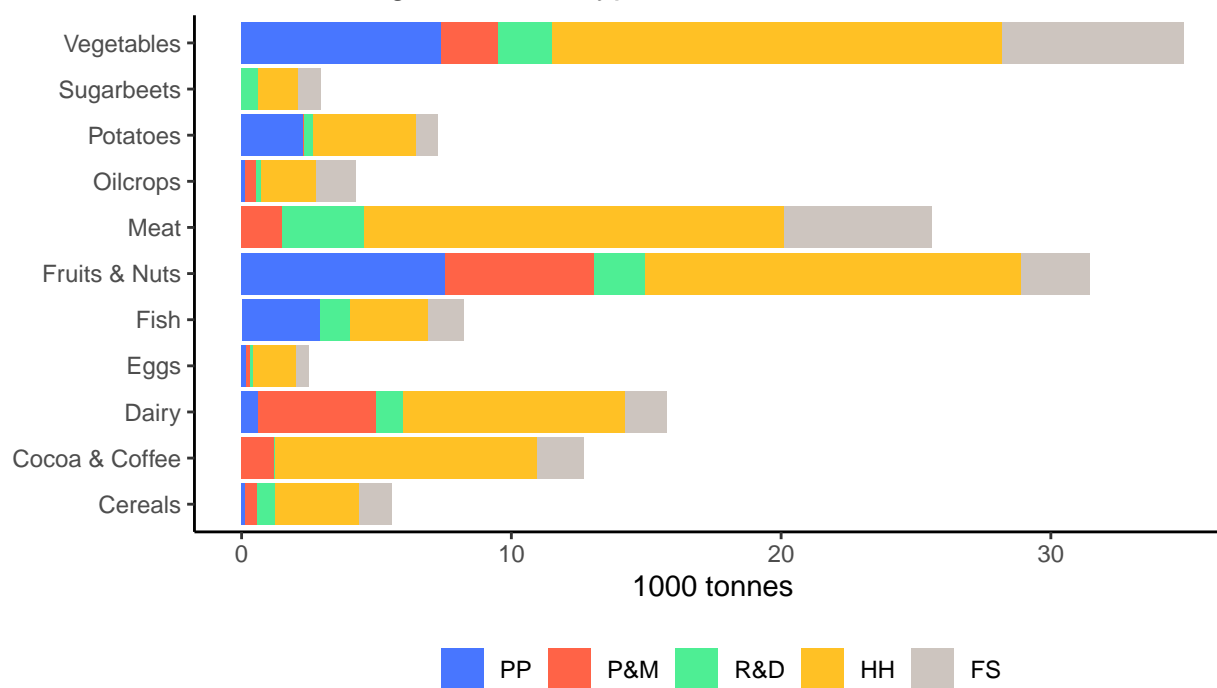


Table 9: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

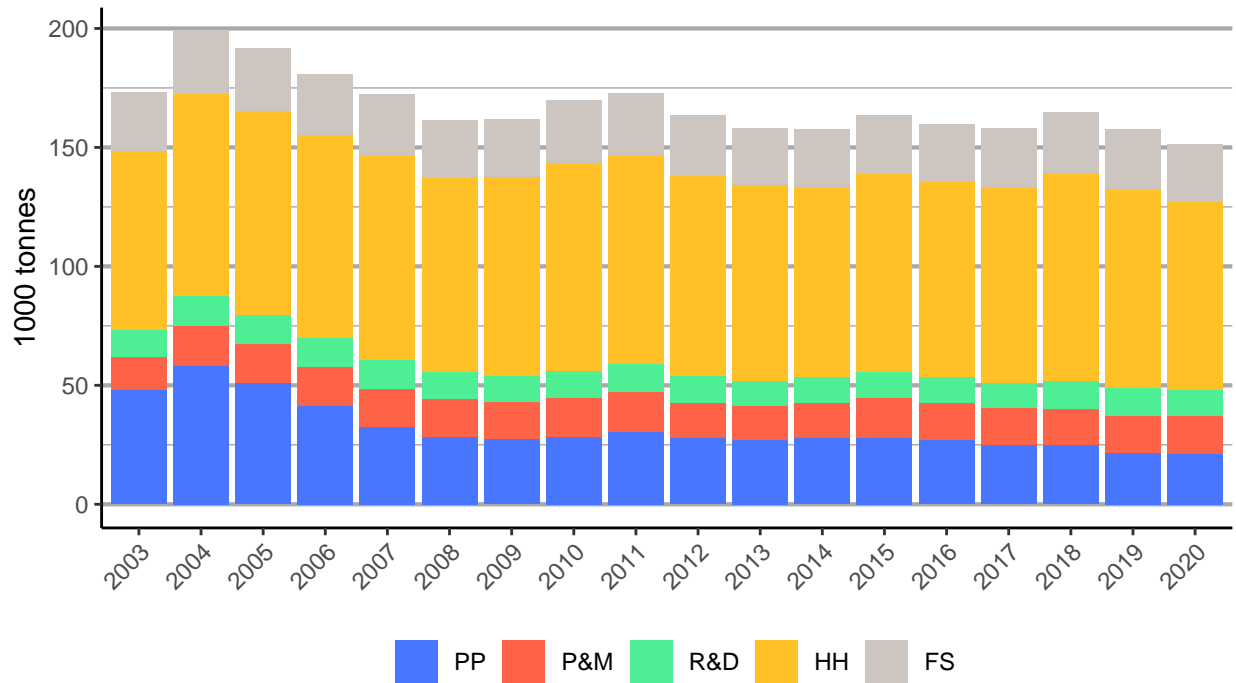
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	465.4	1.2	0.8	41.2	NA
Fruits & Nuts	NA	7.8	6.0	10.4	NA
Vegetables	4.0	1.3	7.6	2.1	NA
Potatoes	1.8	1.0	3.3	0.1	0.0
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	1.7	0.0	1.0	6.9	6.9
Meat	NA	NA	5.6	NA	51.3
Fish	8.8	0.5	0.1	0.0	NA
Dairy	154.8	NA	6.1	193.2	NA
Eggs	NA	NA	0.2	NA	0.4
Cocoa & Coffee	NA	NA	NA	NA	0.7
Total	636.4	11.8	30.6	253.9	59.2

Table 10: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	0.7	3.5	1.4
Fruits & Nuts	2.1	15.7	2.9
Vegetables	2.2	18.8	7.6

	R&D	HH	FS
Potatoes	0.3	4.3	0.9
Sugarbeets	0.7	1.6	0.9
Oilcrops	0.2	2.3	1.7
Meat	3.4	17.6	6.2
Fish	1.2	3.2	1.5
Dairy	1.1	9.3	1.7
Eggs	0.1	1.8	0.5
Cocoa & Coffee	0.0	10.9	2.0
Total	12.3	89.1	27.1

Food Waste timeline, Cyprus, 2003 – 2020



## Czechia

### Food Waste generation, Czechia, 2020

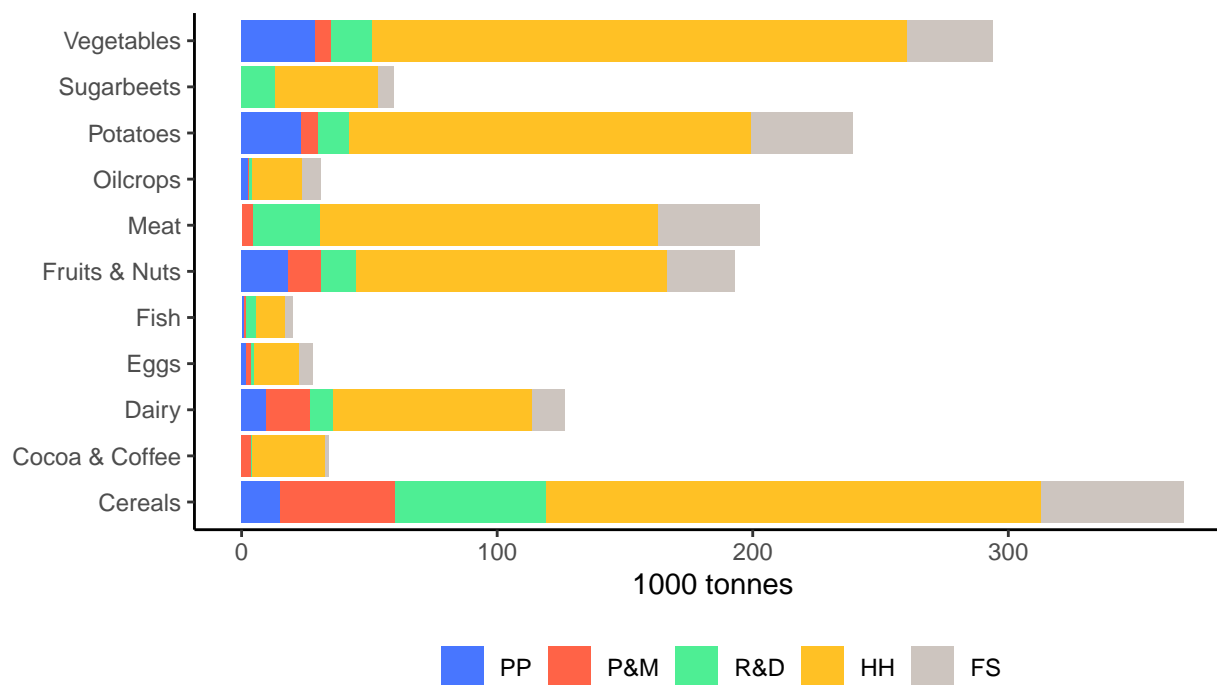


Table 11: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

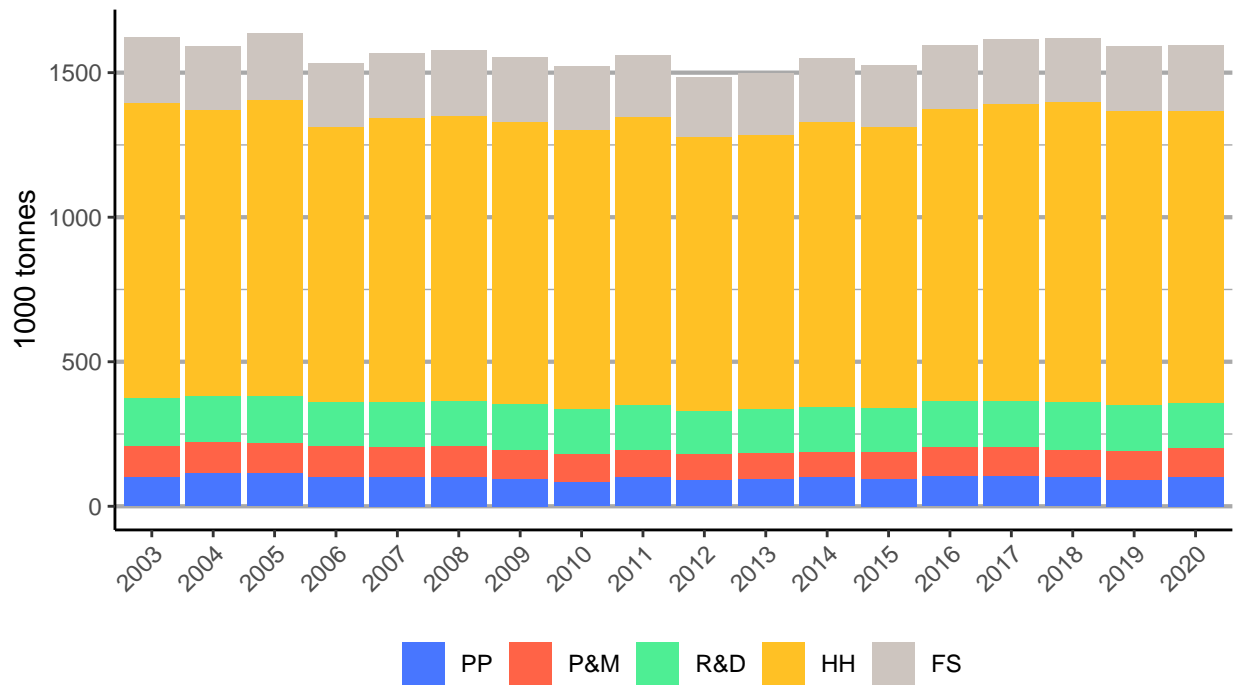
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2286.6	282.8	106.3	840.8	NA
Fruits & Nuts	NA	19.1	14.4	45.2	NA
Vegetables	27.9	2.6	27.7	6.1	NA
Potatoes	20.0	9.9	33.5	7.2	0.5
Sugarbeets	130.6	NA	55.6	274.3	0.0
Oilcrops	6.0	735.5	24.6	420.7	0.0
Meat	NA	NA	25.5	NA	359.8
Fish	40.8	0.0	9.6	1.8	NA
Dairy	152.1	NA	96.2	754.1	NA
Eggs	NA	NA	2.0	NA	4.0
Cocoa & Coffee	NA	NA	NA	NA	9.9
Total	2664.0	1050.0	395.5	2350.2	374.1

Table 12: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	5.5	18.1	5.2
Fruits & Nuts	1.3	11.4	2.5
Vegetables	1.5	19.6	3.1

	R&D	HH	FS
Potatoes	1.1	14.7	3.7
Sugarbeets	1.2	3.8	0.6
Oilcrops	0.1	1.8	0.7
Meat	2.5	12.3	3.7
Fish	0.4	1.1	0.3
Dairy	0.9	7.3	1.2
Eggs	0.1	1.7	0.5
Cocoa & Coffee	0.0	2.7	0.1
Total	14.7	94.4	21.5

Food Waste timeline, Czechia, 2003 – 2020



## Denmark

### Food Waste generation, Denmark, 2020

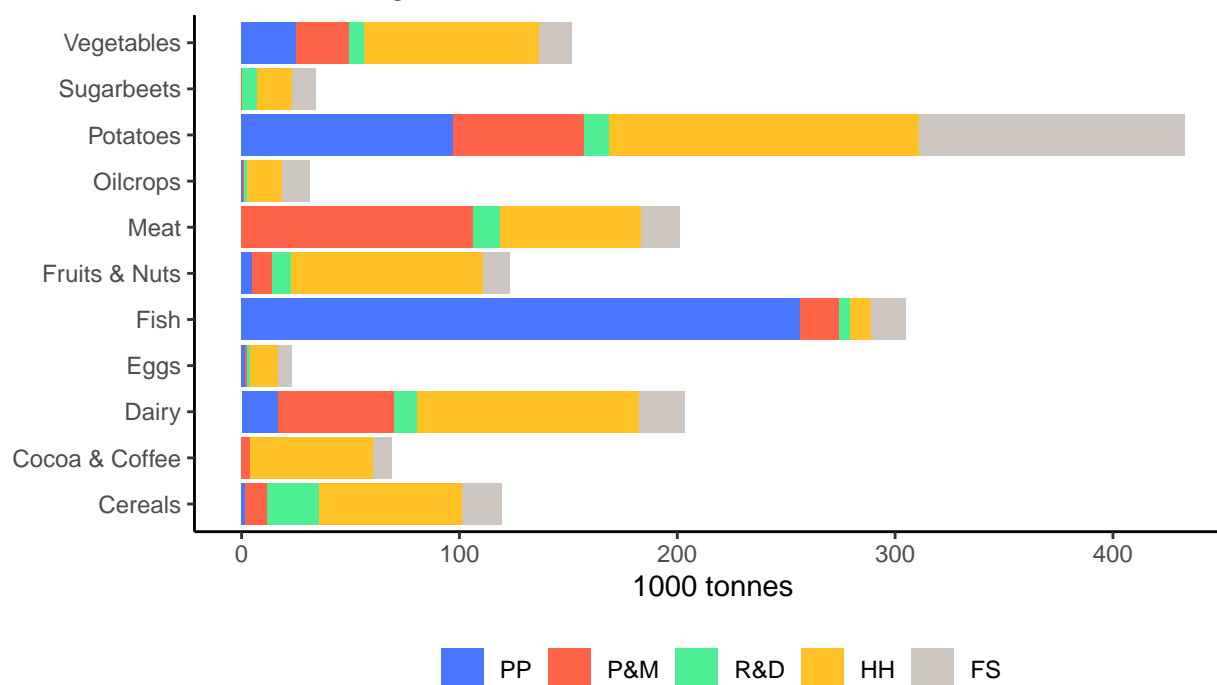


Table 13: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

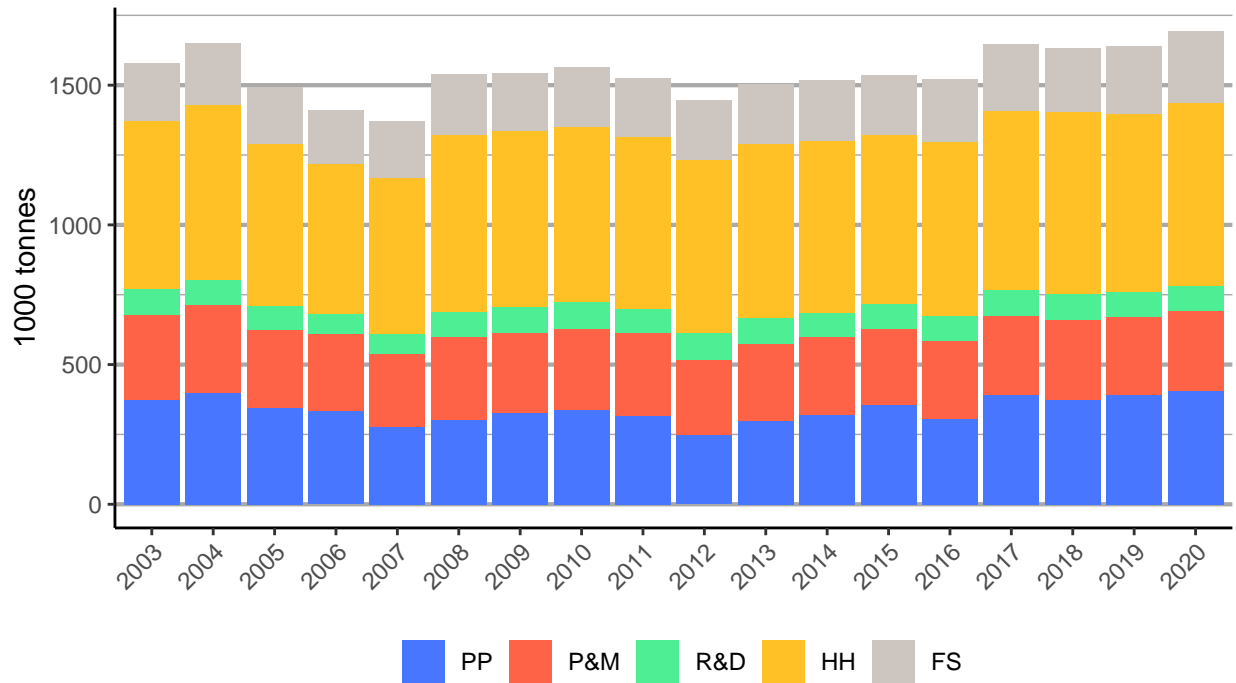
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	7524.4	49.8	24.4	302.6	NA
Fruits & Nuts	NA	5.2	4.3	11.3	NA
Vegetables	111.5	1.2	27.9	24.2	NA
Potatoes	104.1	40.8	137.8	69.0	4.7
Sugarbeets	107.5	NA	38.5	150.6	29.4
Oilcrops	78.5	394.6	9.3	169.4	0.0
Meat	NA	NA	144.1	NA	845.7
Fish	33.2	27.1	57.9	39.4	NA
Dairy	207.7	NA	169.5	2341.3	NA
Eggs	NA	NA	1.5	NA	3.1
Cocoa & Coffee	NA	NA	NA	NA	10.0
Total	8166.8	518.7	615.1	3107.8	893.0

Table 14: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.0	11.3	3.1
Fruits & Nuts	1.5	15.2	2.1
Vegetables	1.2	13.7	2.6

	R&D	HH	FS
Potatoes	1.9	24.4	20.9
Sugarbeets	1.3	2.7	1.9
Oilcrops	0.2	2.7	2.2
Meat	2.2	11.1	3.0
Fish	0.9	1.6	2.7
Dairy	1.8	17.5	3.6
Eggs	0.2	2.2	1.1
Cocoa & Coffee	0.1	9.7	1.4
Total	15.3	112.2	44.6

Food Waste timeline, Denmark, 2003 – 2020



## Estonia

### Food Waste generation, Estonia, 2020

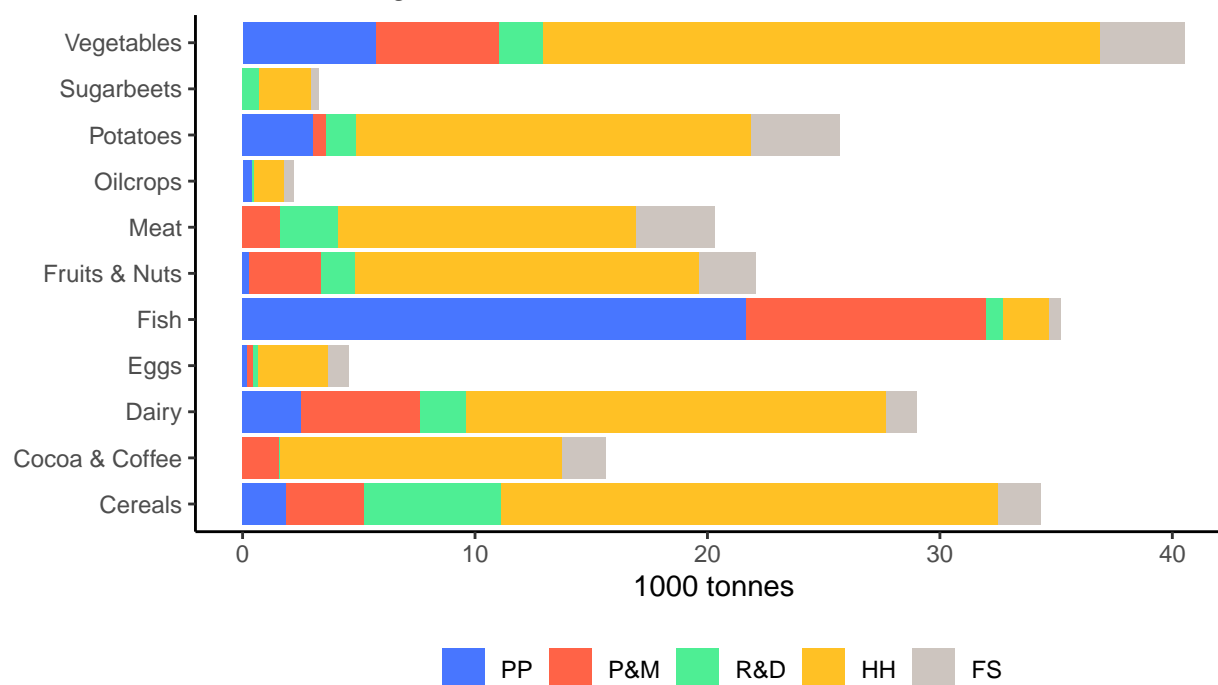


Table 15: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	321.8	9.2	13.9	64.5	NA
Fruits & Nuts	NA	0.3	0.4	4.5	NA
Vegetables	22.9	0.3	7.0	5.2	NA
Potatoes	2.4	1.3	4.3	0.6	0.0
Sugarbeets	NA	NA	0.0	0.1	0.9
Oilcrops	2.0	91.2	3.6	0.0	0.0
Meat	NA	NA	5.5	NA	48.4
Fish	4.2	NA	6.8	23.2	NA
Dairy	30.8	NA	25.1	224.8	NA
Eggs	NA	NA	0.2	NA	0.6
Cocoa & Coffee	NA	NA	NA	NA	2.0
Total	383.9	102.4	66.9	322.9	52.0

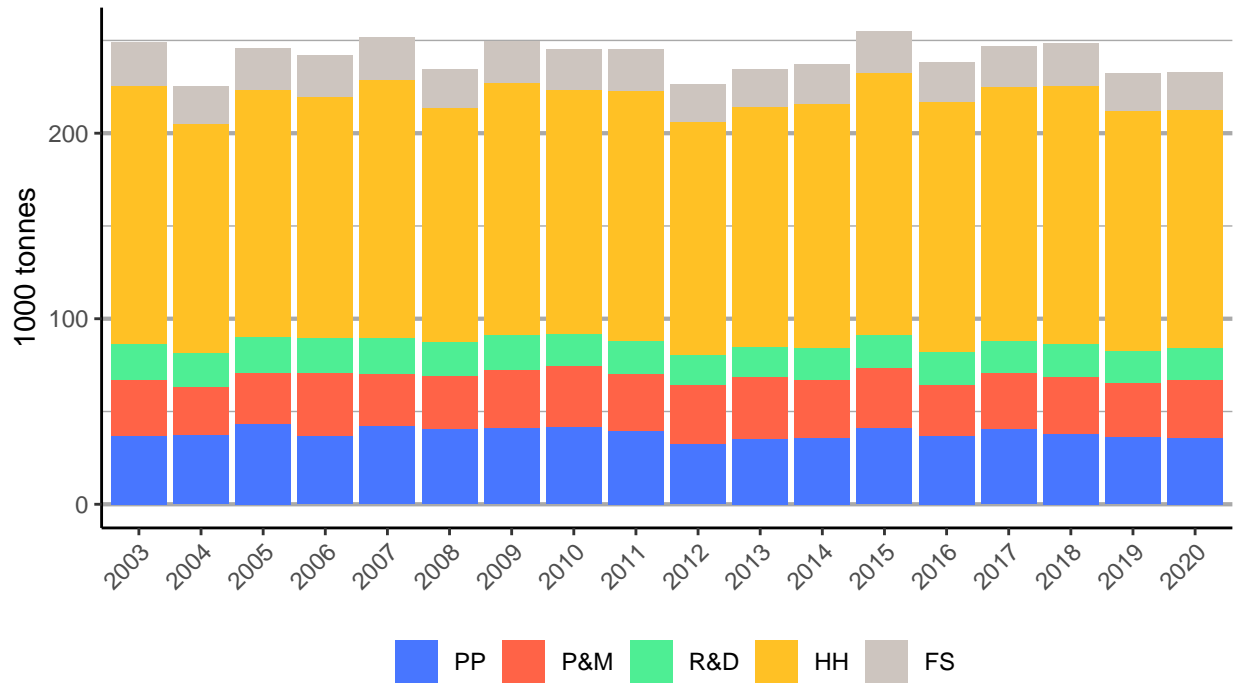
Table 16: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.5	16.1	1.4
Fruits & Nuts	1.1	11.2	1.8
Vegetables	1.4	18.0	2.8



	R&D	HH	FS
Potatoes	1.0	12.8	2.9
Sugarbeets	0.5	1.7	0.2
Oilcrops	0.1	1.0	0.3
Meat	1.9	9.6	2.5
Fish	0.5	1.5	0.4
Dairy	1.5	13.6	1.0
Eggs	0.2	2.2	0.7
Cocoa & Coffee	0.1	9.1	1.4
Total	12.7	96.8	15.4

Food Waste timeline, Estonia, 2003 – 2020



## Finland

### Food Waste generation, Finland, 2020

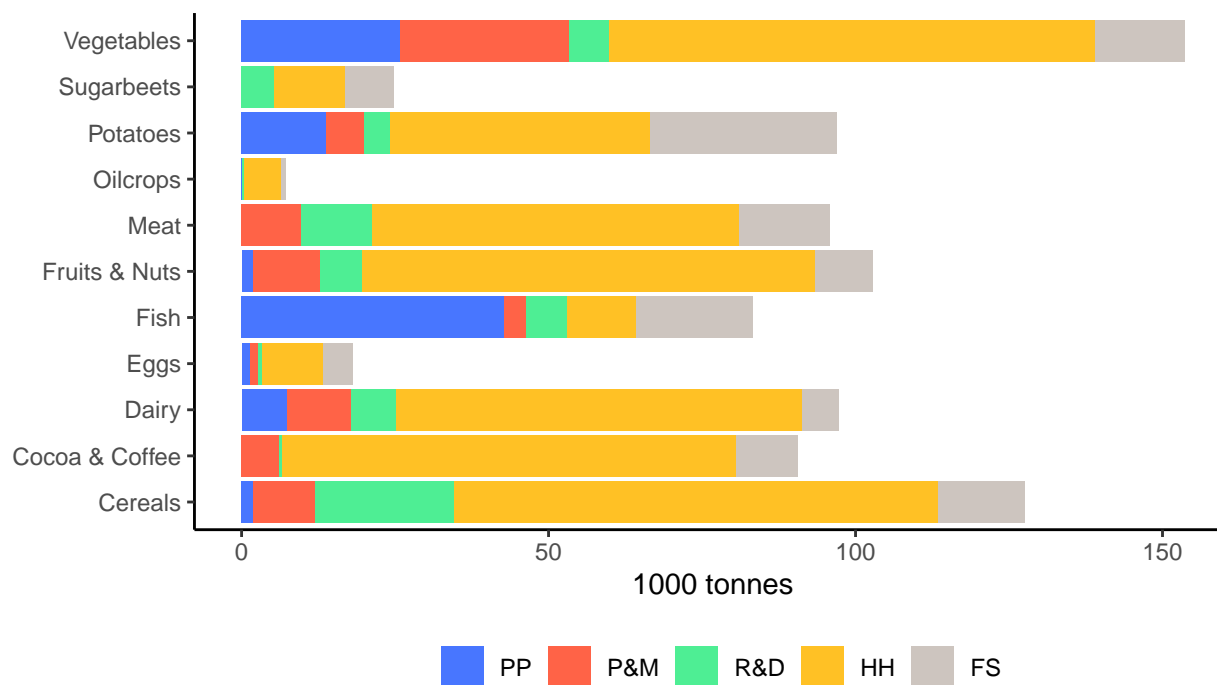


Table 17: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

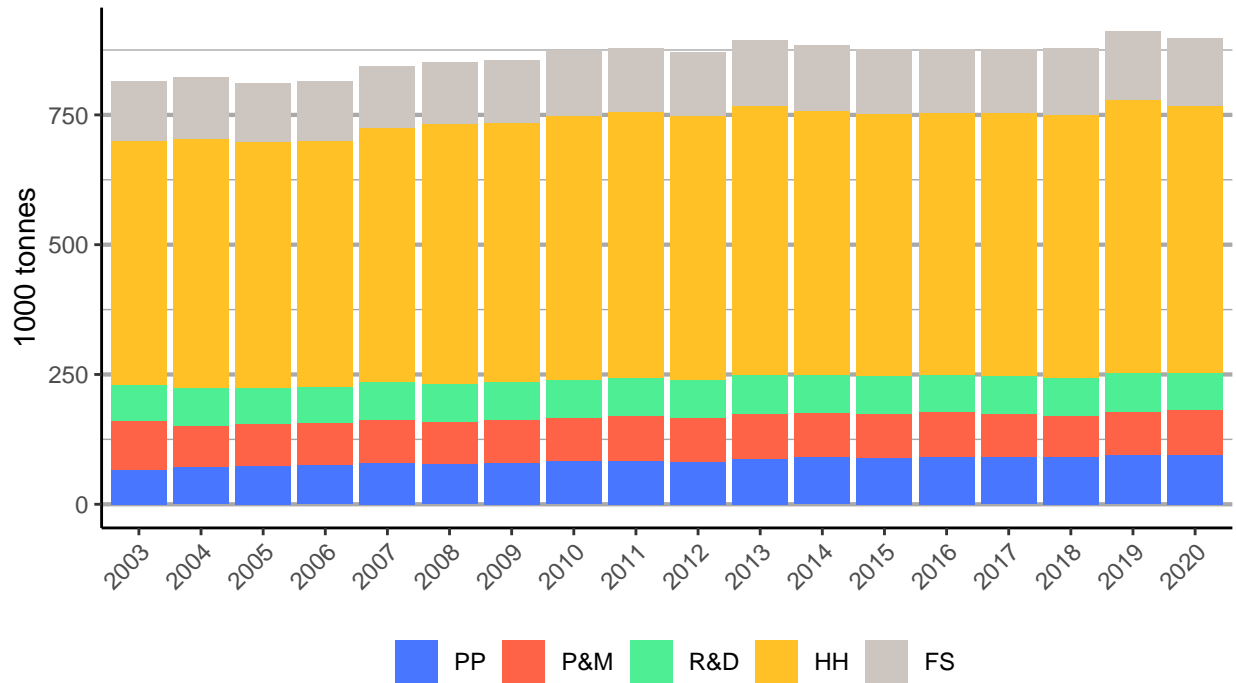
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	1729.8	35.3	20.6	269.0	NA
Fruits & Nuts	NA	2.2	3.4	14.3	NA
Vegetables	53.2	2.5	30.7	26.8	NA
Potatoes	39.2	176.6	4.1	7.2	0.5
Sugarbeets	6.5	NA	6.5	30.0	9.2
Oilcrops	2.9	73.3	0.6	48.9	0.0
Meat	NA	NA	26.0	NA	222.7
Fish	87.9	NA	31.5	8.0	NA
Dairy	2.5	NA	74.8	455.7	NA
Eggs	NA	NA	1.4	NA	2.7
Cocoa & Coffee	NA	NA	NA	NA	18.6
Total	1922.0	289.8	199.6	859.9	253.7

Table 18: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.1	14.3	2.6
Fruits & Nuts	1.2	13.4	1.7
Vegetables	1.2	14.3	2.6

	R&D	HH	FS
Potatoes	0.8	7.7	5.5
Sugarbeets	1.0	2.1	1.4
Oilcrops	0.1	1.1	0.1
Meat	2.1	10.8	2.7
Fish	1.2	2.0	3.5
Dairy	1.3	12.0	1.1
Eggs	0.1	1.8	0.9
Cocoa & Coffee	0.1	13.4	1.8
Total	13.2	92.8	23.8

Food Waste timeline, Finland, 2003 – 2020



## France

### Food Waste generation, France, 2020

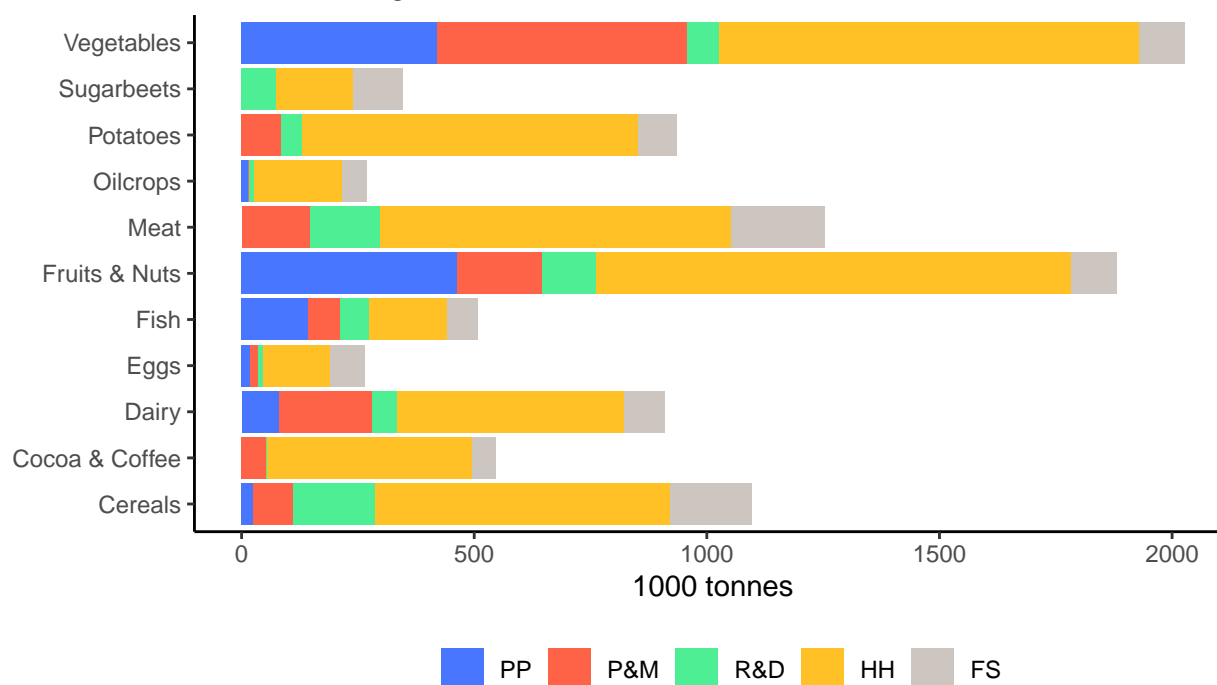


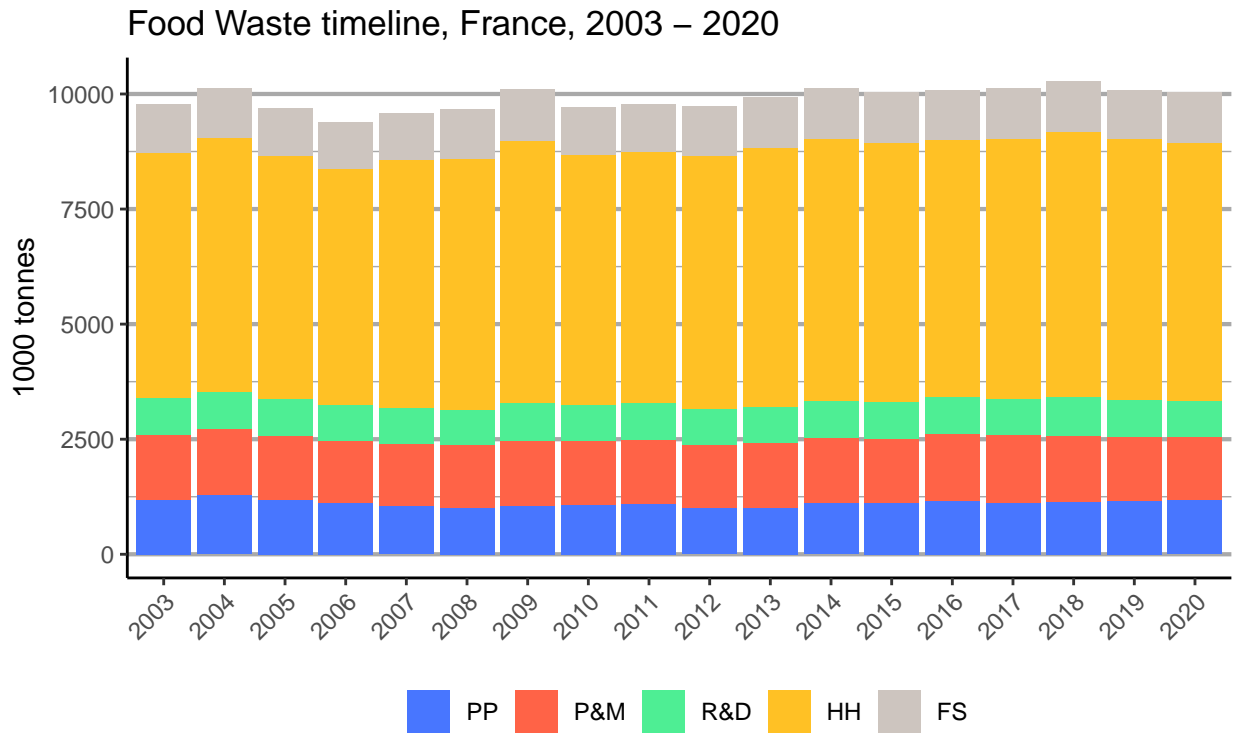
Table 19: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	17512.9	1822.5	931.4	4353.5	NA
Fruits & Nuts	NA	651.4	534.1	1948.4	NA
Vegetables	619.1	91.6	236.1	521.5	NA
Potatoes	696.1	483.5	687.7	98.8	6.7
Sugarbeets	1442.6	585.0	379.6	1913.3	0.0
Oilcrops	302.9	2505.6	140.2	1932.4	4.2
Meat	NA	NA	58.5	NA	2909.1
Fish	82.8	0.2	100.6	154.2	NA
Dairy	634.4	NA	813.3	8775.8	NA
Eggs	NA	NA	18.7	NA	38.6
Cocoa & Coffee	NA	NA	NA	NA	100.0
Total	21290.8	6139.8	3900.2	19697.9	3058.7

Table 20: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	2.6	9.4	2.6
Fruits & Nuts	1.7	15.1	1.5
Vegetables	1.0	13.4	1.4

	R&D	HH	FS
Potatoes	0.6	10.7	1.2
Sugarbeets	1.1	2.5	1.6
Oilcrops	0.2	2.8	0.8
Meat	2.2	11.2	3.0
Fish	0.9	2.5	1.0
Dairy	0.8	7.2	1.3
Eggs	0.2	2.1	1.1
Cocoa & Coffee	0.1	6.5	0.8
Total	11.5	83.5	16.2



## Germany

Food Waste generation, Germany, 2020

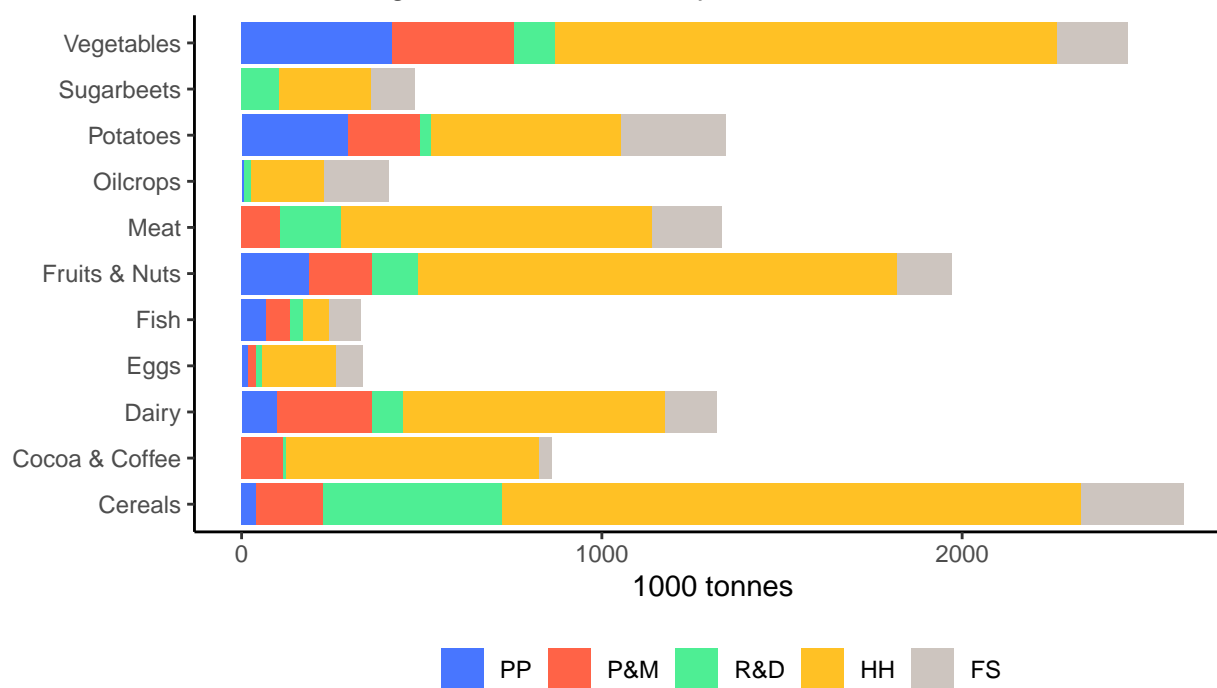


Table 21: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

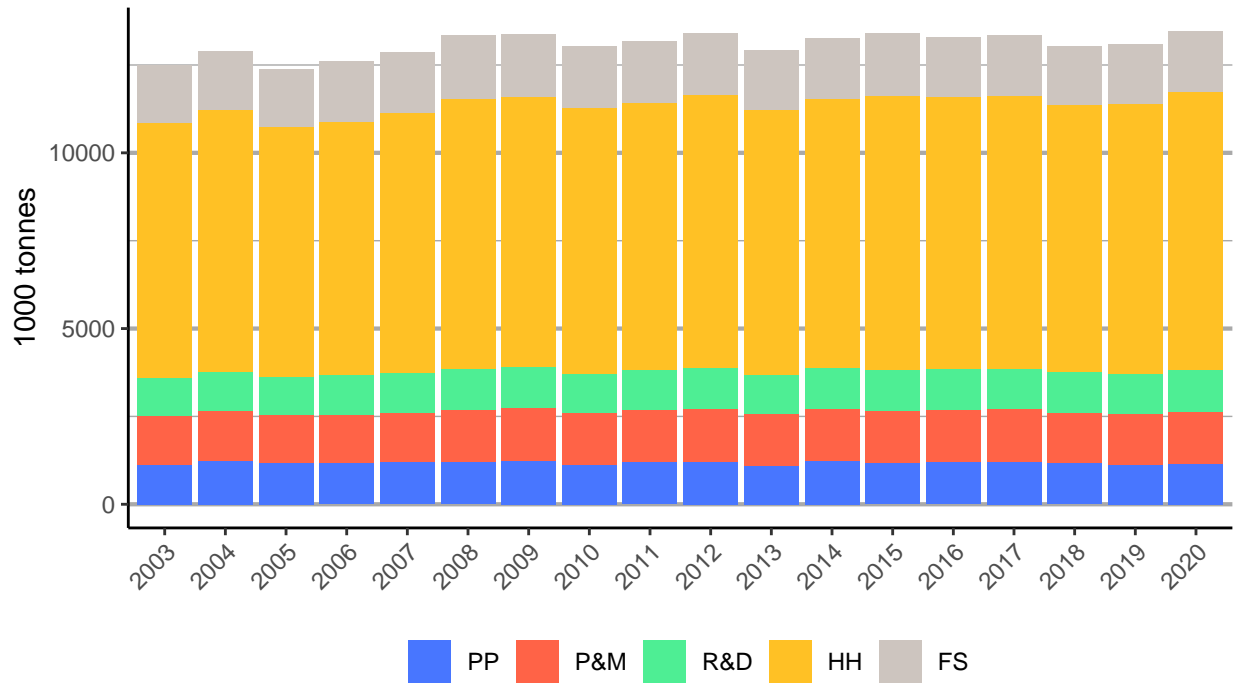
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	25965.3	5811.0	307.8	4337.1	NA
Fruits & Nuts	NA	202.8	156.5	557.7	NA
Vegetables	826.9	42.8	422.3	331.1	NA
Potatoes	638.1	2438.2	267.0	226.7	15.4
Sugarbeets	443.5	NA	442.5	2017.4	393.8
Oilcrops	309.7	6506.1	66.7	4387.5	0.0
Meat	NA	NA	563.8	NA	4166.1
Fish	21.8	0.2	30.2	148.1	NA
Dairy	1098.8	NA	998.2	11530.1	NA
Eggs	NA	NA	19.3	NA	49.4
Cocoa & Coffee	NA	NA	NA	NA	176.0
Total	29304.1	15001.0	3274.2	23535.6	4800.7

Table 22: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	6.0	19.4	3.4
Fruits & Nuts	1.6	16.0	1.8
Vegetables	1.4	16.8	2.3

	R&D	HH	FS
Potatoes	0.4	6.3	3.5
Sugarbeets	1.2	3.1	1.5
Oilcrops	0.2	2.5	2.1
Meat	2.1	10.3	2.3
Fish	0.4	0.9	1.0
Dairy	1.0	8.8	1.7
Eggs	0.2	2.5	0.9
Cocoa & Coffee	0.1	8.4	0.4
Total	14.6	94.8	21.1

Food Waste timeline, Germany, 2003 – 2020



## Greece

### Food Waste generation, Greece, 2020

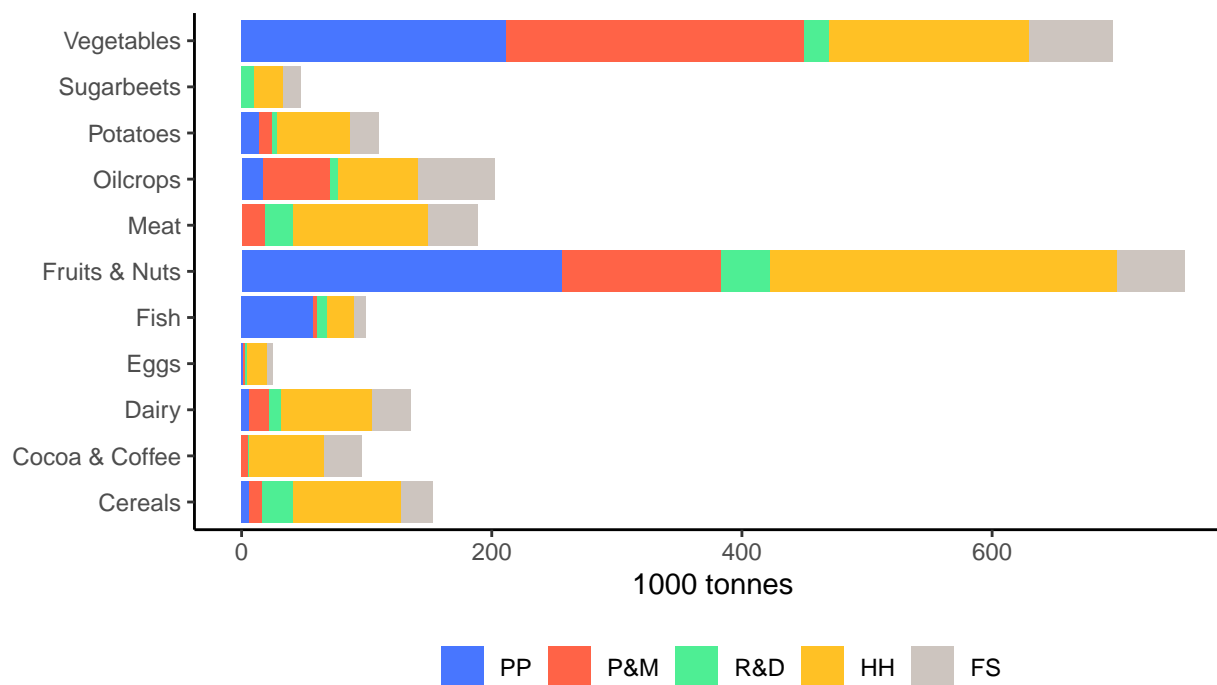


Table 23: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2579.8	242.4	23.2	442.5	NA
Fruits & Nuts	24.0	333.3	298.3	307.1	NA
Vegetables	290.1	66.3	186.5	211.2	NA
Potatoes	48.7	25.2	20.6	11.1	0.8
Sugarbeets	18.1	NA	1.1	6.0	4.6
Oilcrops	55.7	487.1	157.4	1277.2	841.7
Meat	NA	NA	24.7	NA	378.2
Fish	480.8	1.4	13.4	7.4	NA
Dairy	39.5	1.8	60.6	689.7	NA
Eggs	NA	NA	1.6	NA	3.9
Cocoa & Coffee	NA	NA	NA	NA	13.9
Total	3536.7	1157.7	787.6	2952.3	1243.0

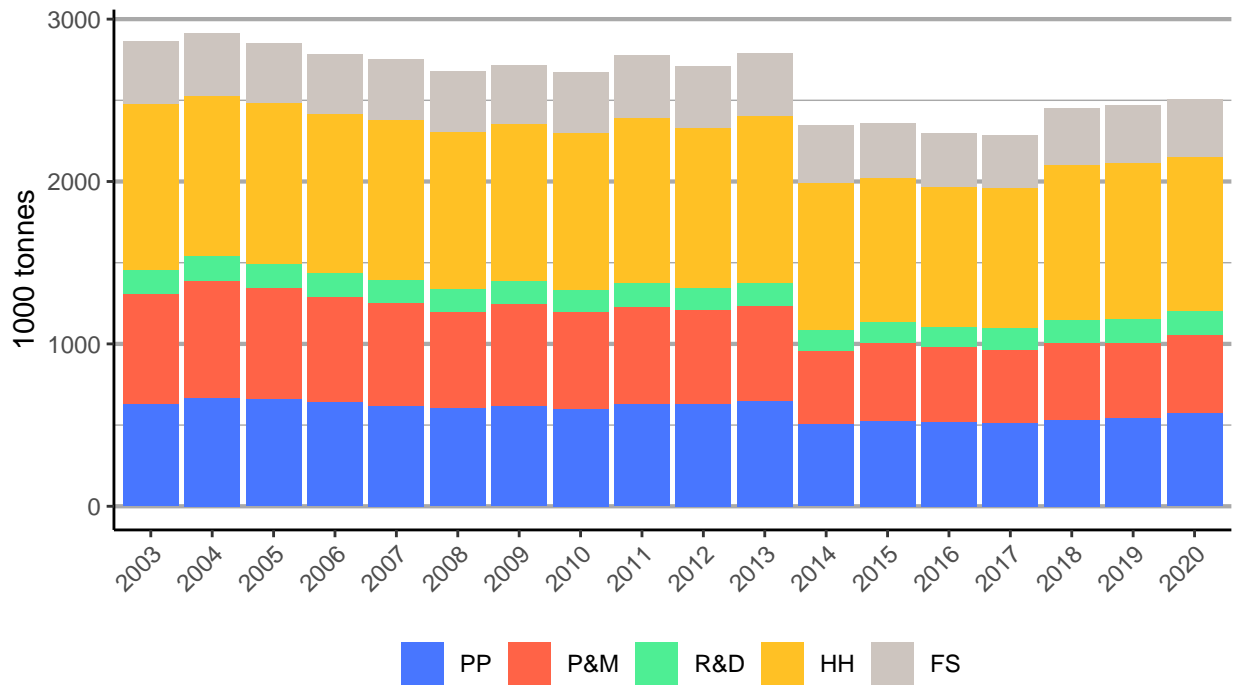
Table 24: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	2.3	8.0	2.4
Fruits & Nuts	3.6	25.9	5.0
Vegetables	1.8	14.9	6.2



	R&D	HH	FS
Potatoes	0.4	5.4	2.1
Sugarbeets	0.9	2.2	1.3
Oilcrops	0.5	6.0	5.7
Meat	2.0	10.1	3.7
Fish	0.8	2.0	0.9
Dairy	0.9	6.8	2.9
Eggs	0.1	1.5	0.4
Cocoa & Coffee	0.0	5.7	2.8
Total	13.5	88.4	33.4

Food Waste timeline, Greece, 2003 – 2020



## Hungary

### Food Waste generation, Hungary, 2020

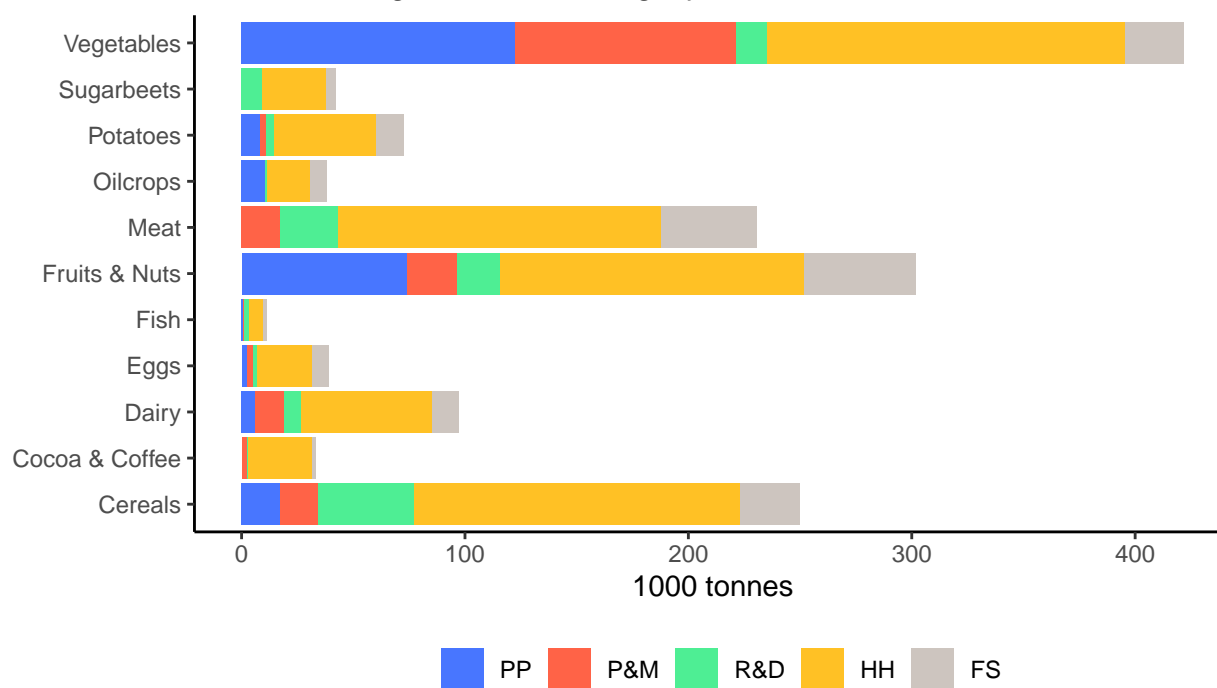


Table 25: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

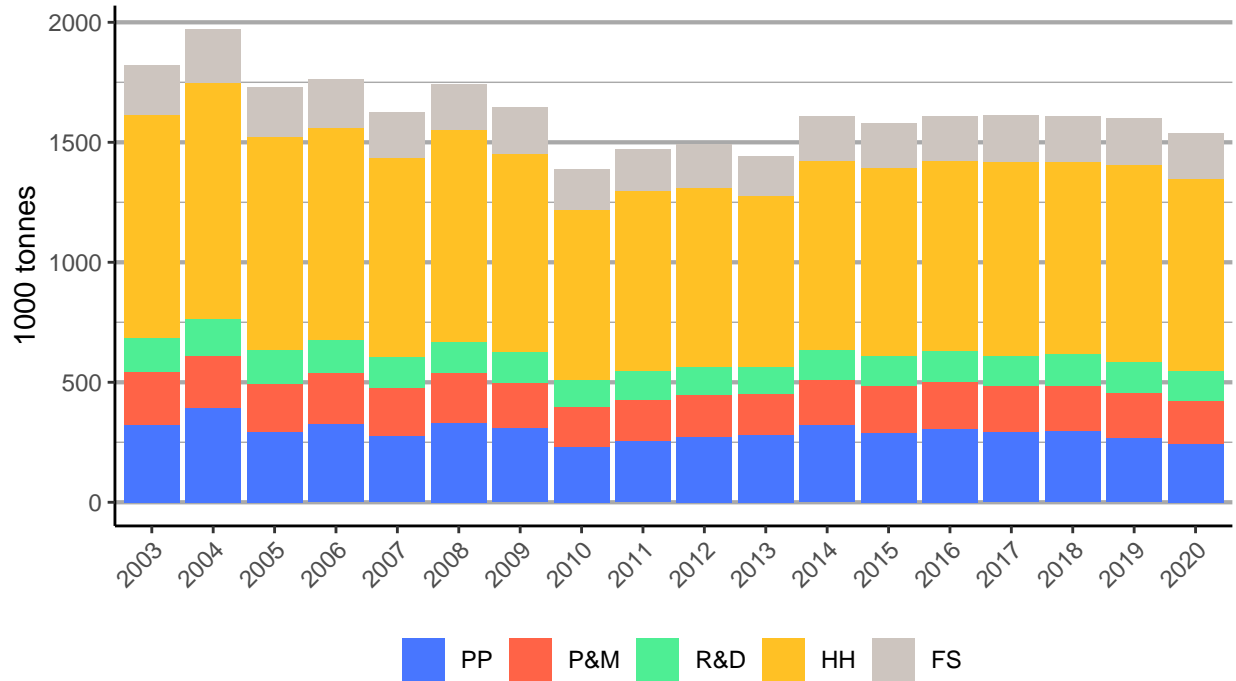
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	4983.3	2135.2	138.5	1115.6	NA
Fruits & Nuts	15.6	80.5	63.9	149.3	NA
Vegetables	255.5	18.6	133.7	97.1	NA
Potatoes	11.0	37.3	11.7	3.3	0.2
Sugarbeets	15.9	8.0	11.9	66.6	0.0
Oilcrops	100.4	243.4	93.5	1012.0	0.0
Meat	NA	NA	52.6	NA	434.8
Fish	12.1	0.0	9.3	0.1	NA
Dairy	61.1	NA	60.6	578.3	NA
Eggs	NA	NA	2.7	NA	6.0
Cocoa & Coffee	NA	NA	NA	NA	6.1
Total	5455.1	2523.1	578.4	3022.3	447.1

Table 26: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.4	14.9	2.7
Fruits & Nuts	2.0	13.9	5.1
Vegetables	1.4	16.4	2.7

	R&D	HH	FS
Potatoes	0.4	4.7	1.2
Sugarbeets	0.9	3.0	0.4
Oilcrops	0.1	1.9	0.8
Meat	2.7	14.8	4.4
Fish	0.2	0.6	0.2
Dairy	0.8	6.0	1.2
Eggs	0.2	2.5	0.8
Cocoa & Coffee	0.0	2.9	0.1
Total	13.1	81.8	19.6

Food Waste timeline, Hungary, 2003 – 2020



## Ireland

Food Waste generation, Ireland, 2020

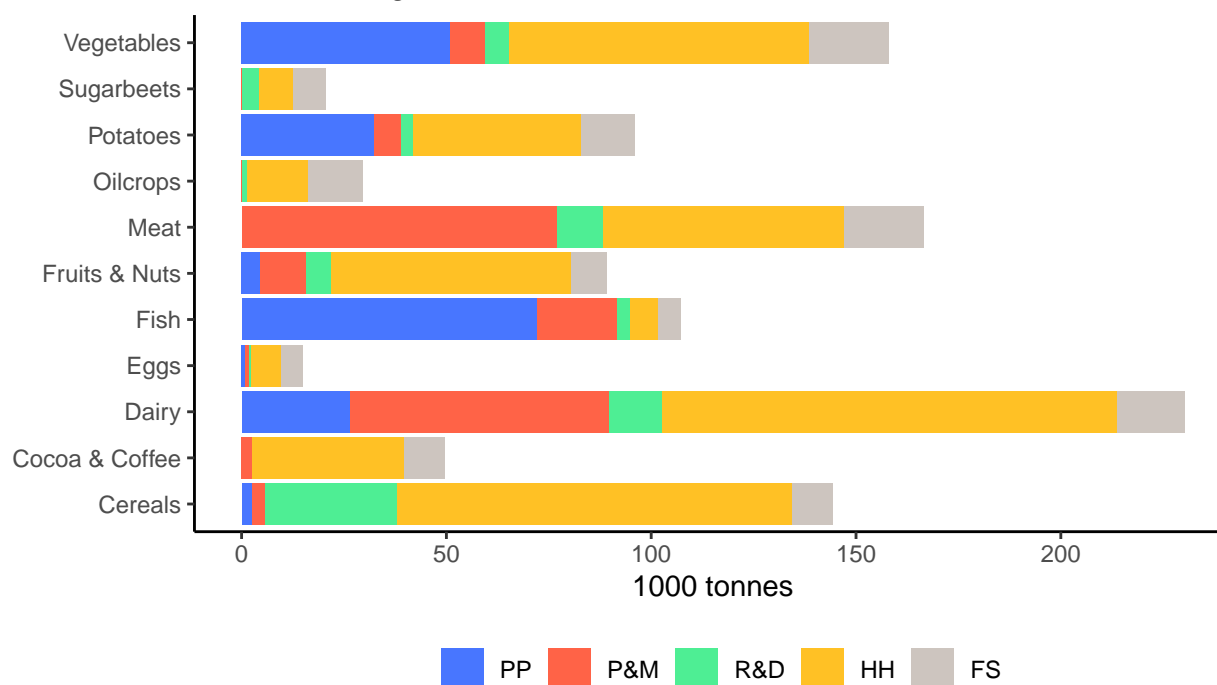


Table 27: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

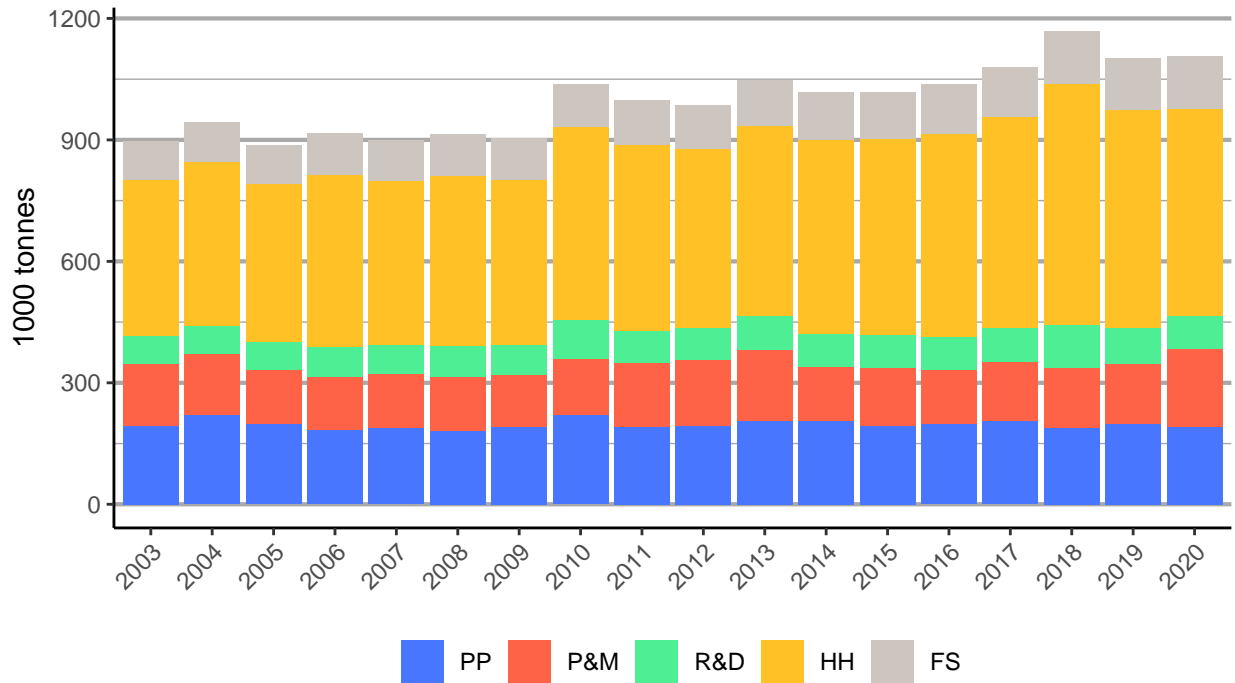
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2931.3	14.0	15.8	131.5	NA
Fruits & Nuts	NA	2.7	1.4	13.7	NA
Vegetables	84.1	2.9	58.7	8.2	NA
Potatoes	28.3	11.4	28.8	7.6	0.5
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	3.6	24.3	0.7	13.9	0.1
Meat	NA	NA	156.8	NA	613.0
Fish	20.8	0.1	28.7	43.8	NA
Dairy	8.9	NA	265.9	2778.1	NA
Eggs	NA	NA	1.0	NA	1.8
Cocoa & Coffee	NA	NA	NA	NA	4.6
Total	3076.9	55.3	557.7	2996.8	620.1

Table 28: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	6.4	19.5	2.0
Fruits & Nuts	1.3	11.8	1.7
Vegetables	1.2	14.7	3.9

	R&D	HH	FS
Potatoes	0.6	8.3	2.6
Sugarbeets	0.9	1.6	1.6
Oilcrops	0.3	3.0	2.7
Meat	2.2	11.9	3.9
Fish	0.6	1.4	1.1
Dairy	2.6	22.3	3.3
Eggs	0.1	1.5	1.0
Cocoa & Coffee	0.0	7.4	2.0
Total	16.3	103.4	26.0

Food Waste timeline, Ireland, 2003 – 2020



## Italy

Food Waste generation, Italy, 2020

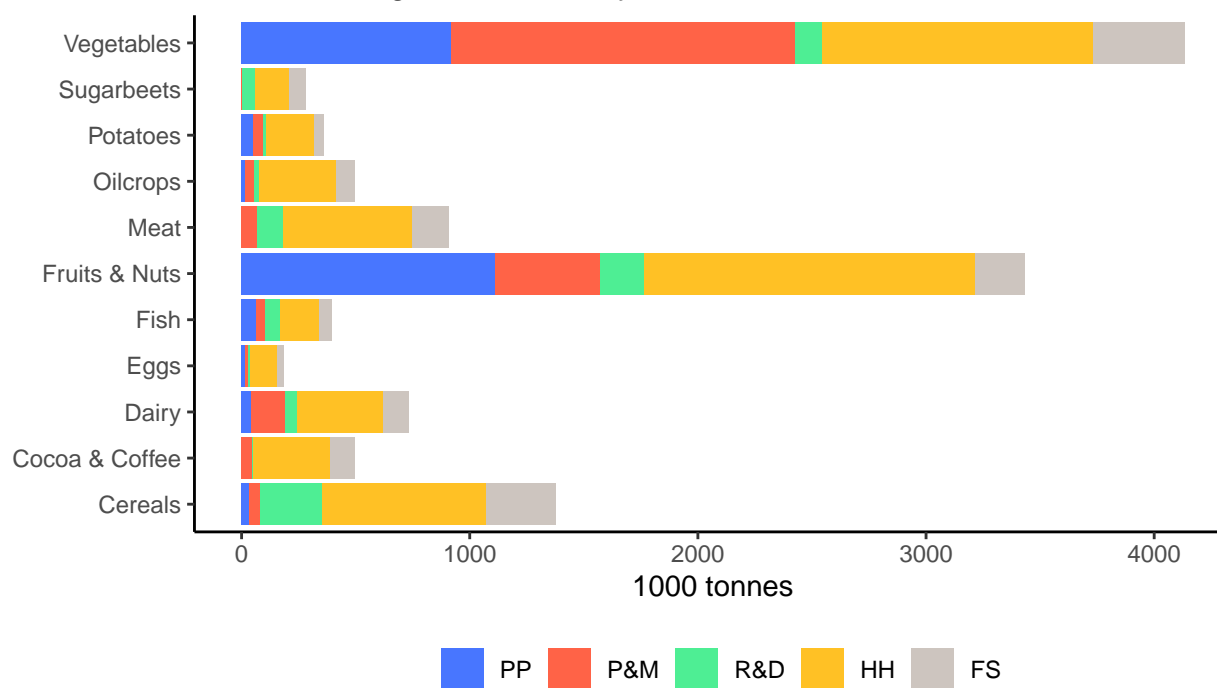


Table 29: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

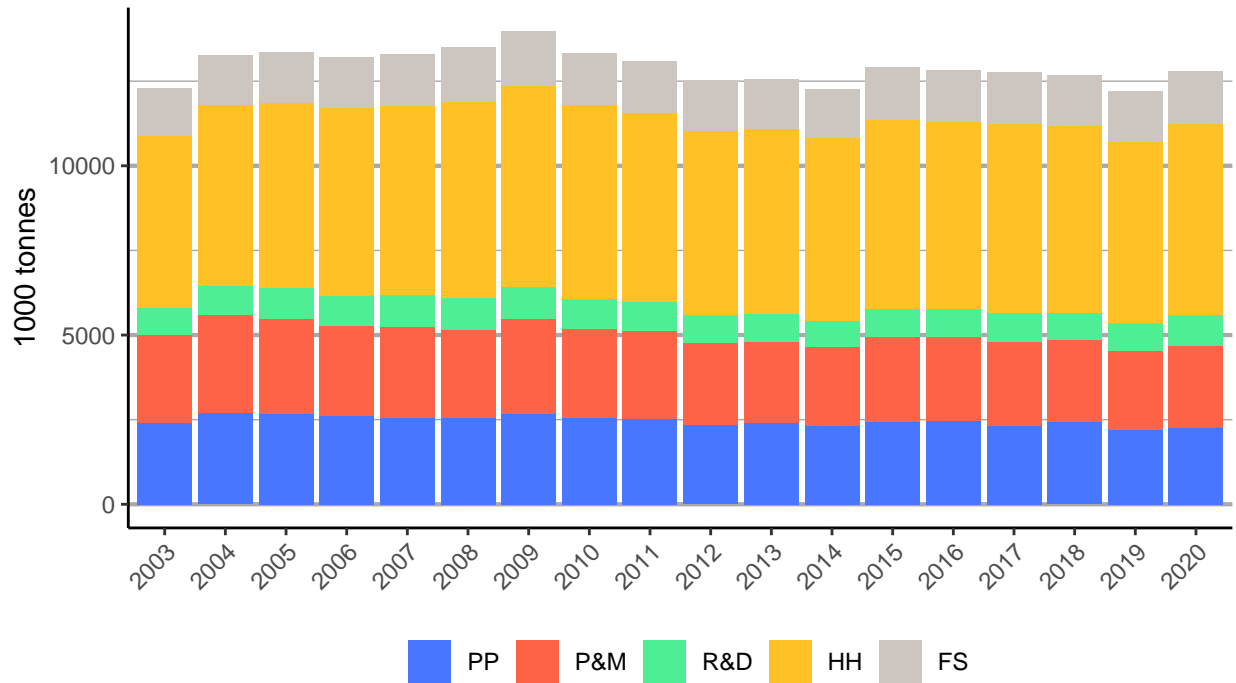
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	15118.0	1057.1	146.9	3416.2	NA
Fruits & Nuts	NA	1306.5	1075.5	2625.0	NA
Vegetables	863.5	336.9	724.3	1298.2	NA
Potatoes	72.8	52.0	72.0	50.9	3.5
Sugarbeets	31.3	NA	28.3	163.3	0.0
Oilcrops	356.5	844.5	148.4	2581.3	619.1
Meat	NA	NA	231.4	NA	1883.4
Fish	252.0	0.2	60.1	96.0	NA
Dairy	241.7	NA	413.1	6650.1	NA
Eggs	NA	NA	13.7	NA	28.6
Cocoa & Coffee	NA	NA	NA	NA	86.1
Total	16935.8	3597.3	2913.6	16881.0	2620.6

Table 30: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.5	12.1	5.1
Fruits & Nuts	3.3	24.3	3.6
Vegetables	2.0	19.9	6.7

	R&D	HH	FS
Potatoes	0.2	3.5	0.7
Sugarbeets	1.0	2.5	1.2
Oilcrops	0.3	5.7	1.3
Meat	1.9	9.5	2.6
Fish	1.0	2.9	0.9
Dairy	0.9	6.3	1.8
Eggs	0.1	2.0	0.5
Cocoa & Coffee	0.1	5.7	1.8
Total	15.4	94.5	26.4

Food Waste timeline, Italy, 2003 – 2020



## Latvia

### Food Waste generation, Latvia, 2020

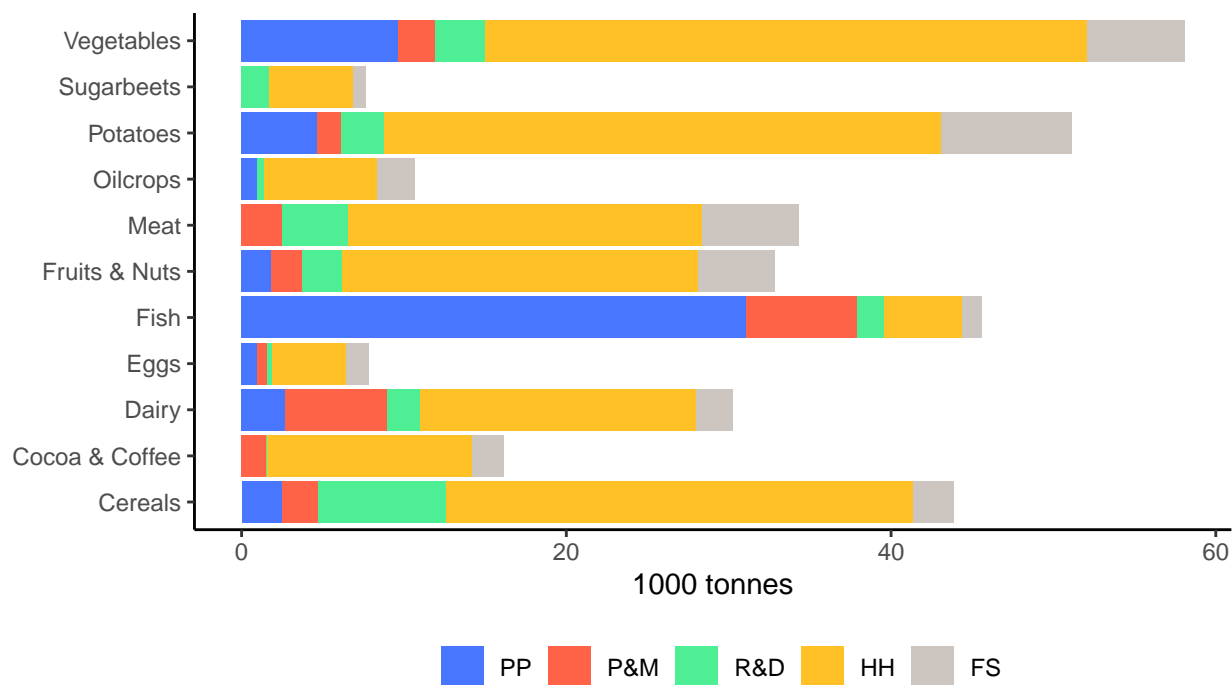


Table 31: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	671.1	6.0	19.5	83.9	NA
Fruits & Nuts	NA	1.9	1.6	2.1	NA
Vegetables	30.9	1.0	8.5	2.3	NA
Potatoes	26.9	4.0	6.6	1.7	0.1
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	NA	73.8	8.1	30.4	0.0
Meat	NA	NA	6.9	NA	70.0
Fish	27.6	NA	9.3	15.3	NA
Dairy	101.2	NA	26.6	278.2	NA
Eggs	NA	NA	0.9	NA	1.4
Cocoa & Coffee	NA	NA	NA	NA	1.8
Total	857.6	86.6	88.0	414.0	73.5

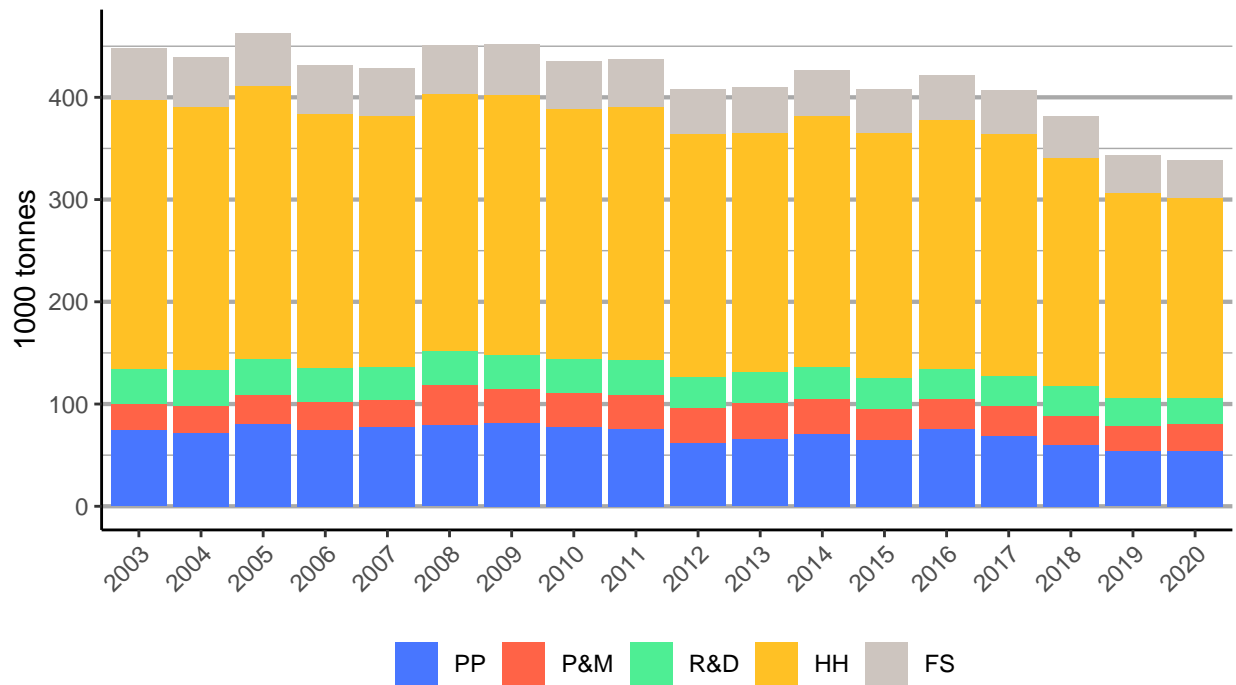
Table 32: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.2	15.1	1.3
Fruits & Nuts	1.3	11.5	2.5
Vegetables	1.6	19.4	3.1



	R&D	HH	FS
Potatoes	1.4	18.0	4.2
Sugarbeets	0.9	2.7	0.4
Oilcrops	0.2	3.6	1.2
Meat	2.1	11.4	3.1
Fish	0.9	2.5	0.6
Dairy	1.0	8.9	1.2
Eggs	0.2	2.4	0.7
Cocoa & Coffee	0.0	6.6	1.0
Total	13.8	102.3	19.4

Food Waste timeline, Latvia, 2003 – 2020



## Lithuania

### Food Waste generation, Lithuania, 2020

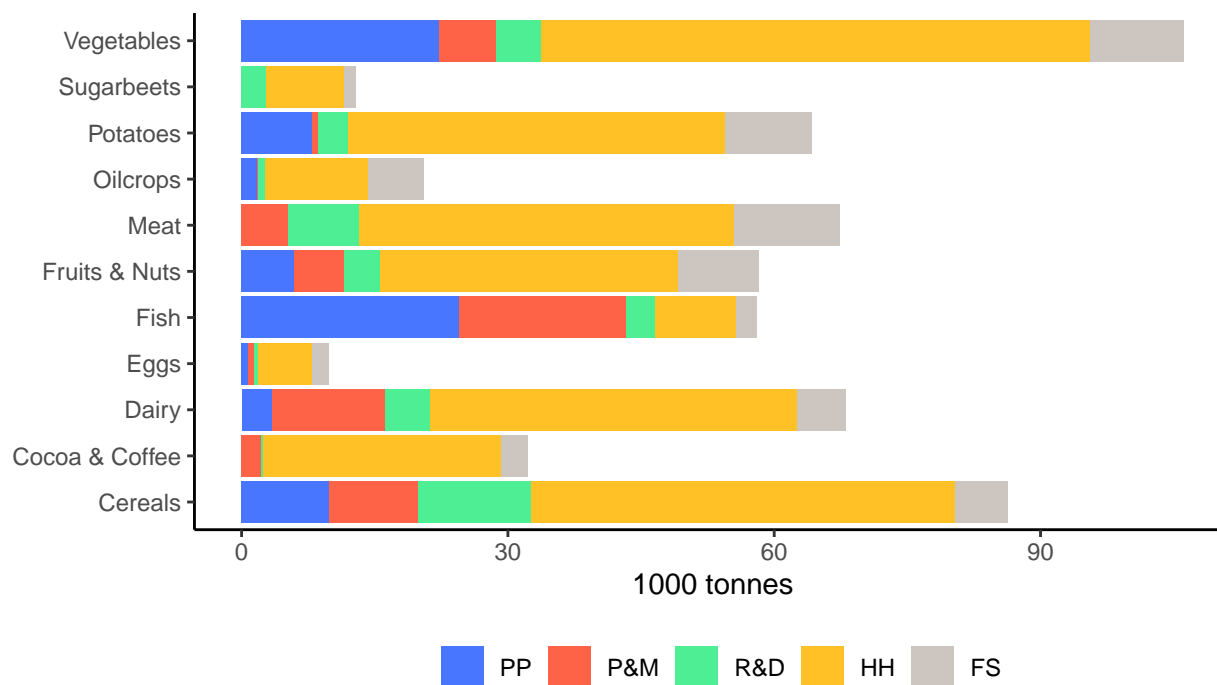


Table 33: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

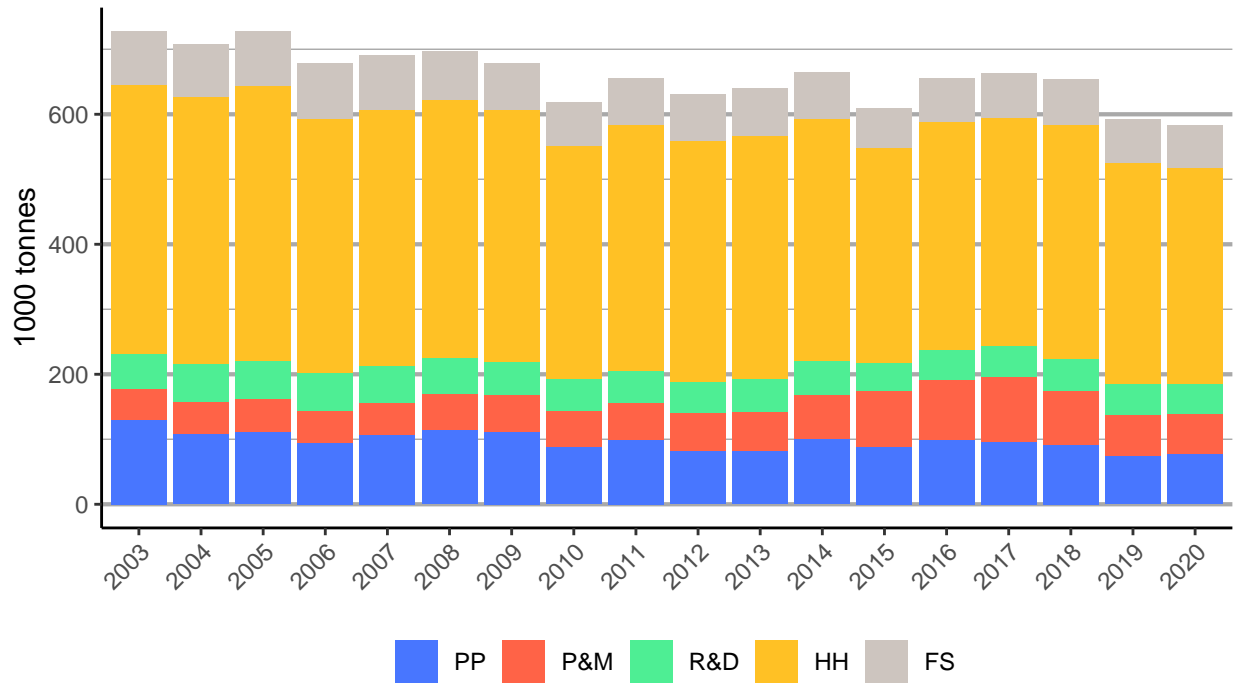
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	1355.6	170.5	71.0	322.4	NA
Fruits & Nuts	1.1	5.8	4.7	6.5	NA
Vegetables	187.9	2.2	22.8	6.3	NA
Potatoes	38.8	3.3	11.3	0.8	0.1
Sugarbeets	16.6	NA	14.6	64.8	0.0
Oilcrops	32.8	192.6	15.7	79.5	0.0
Meat	NA	NA	12.2	NA	140.3
Fish	4.5	NA	7.3	42.3	NA
Dairy	486.6	NA	34.8	561.6	NA
Eggs	NA	NA	0.8	NA	1.5
Cocoa & Coffee	NA	NA	NA	NA	4.3
Total	2123.9	374.5	195.1	1084.2	146.2

Table 34: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.6	17.1	2.1
Fruits & Nuts	1.4	12.0	3.2
Vegetables	1.8	22.1	3.8

	R&D	HH	FS
Potatoes	1.2	15.2	3.5
Sugarbeets	1.0	3.1	0.4
Oilcrops	0.3	4.1	2.3
Meat	2.9	15.1	4.2
Fish	1.2	3.3	0.8
Dairy	1.8	14.8	2.0
Eggs	0.2	2.2	0.7
Cocoa & Coffee	0.1	9.6	1.0
Total	16.4	118.7	24.1

Food Waste timeline, Lithuania, 2003 – 2020



## Luxembourg

### Food Waste generation, Luxembourg, 2020

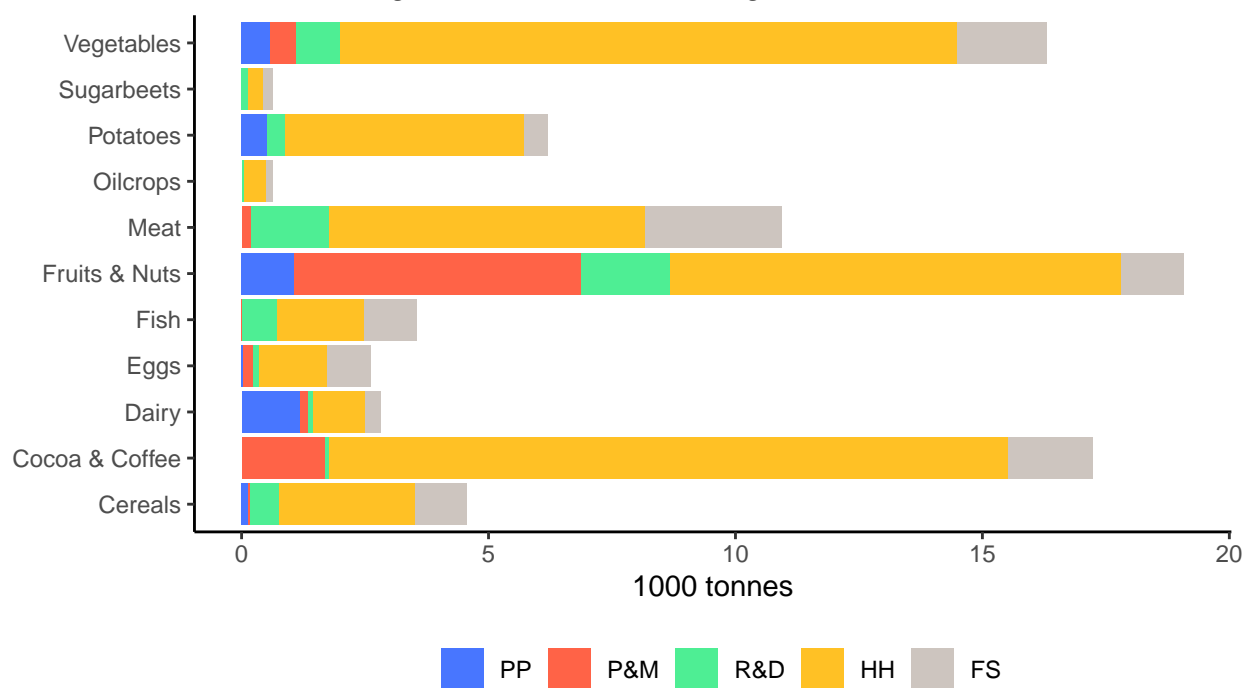


Table 35: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

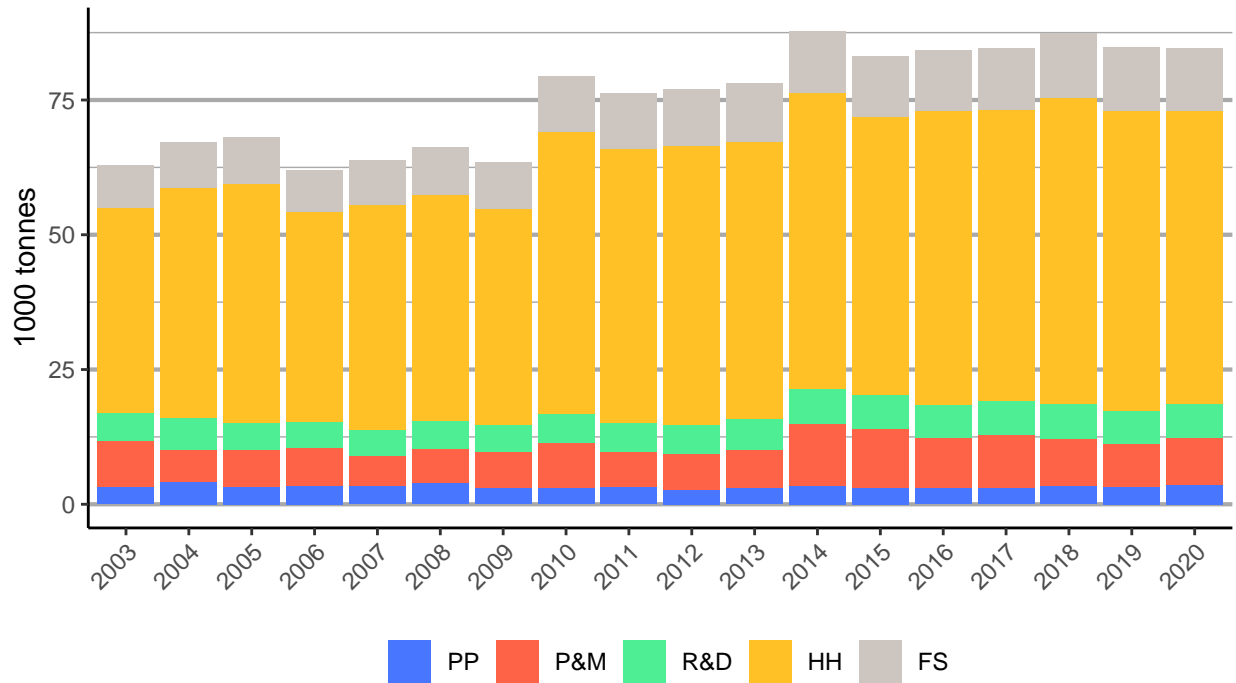
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	116.6	3.8	1.0	27.6	NA
Fruits & Nuts	NA	1.2	0.9	6.0	NA
Vegetables	0.3	0.0	0.6	0.4	NA
Potatoes	1.2	0.2	0.8	0.0	0.0
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	NA	0.6	0.2	0.6	0.0
Meat	NA	NA	1.9	NA	19.7
Fish	NA	0.0	0.0	0.0	NA
Dairy	32.7	NA	11.9	6.5	NA
Eggs	NA	NA	0.0	NA	0.4
Cocoa & Coffee	NA	NA	NA	NA	3.1
Total	150.8	5.9	17.3	41.1	23.2

Table 36: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	0.9	4.4	1.7
Fruits & Nuts	2.9	14.6	2.0
Vegetables	1.4	19.9	2.9

	R&D	HH	FS
Potatoes	0.6	7.8	0.8
Sugarbeets	0.2	0.5	0.3
Oilcrops	0.0	0.7	0.2
Meat	2.5	10.2	4.4
Fish	1.2	2.8	1.7
Dairy	0.2	1.7	0.5
Eggs	0.2	2.2	1.4
Cocoa & Coffee	0.2	22.0	2.7
Total	10.3	86.7	18.7

Food Waste timeline, Luxembourg, 2003 – 2020



## Malta

### Food Waste generation, Malta, 2020

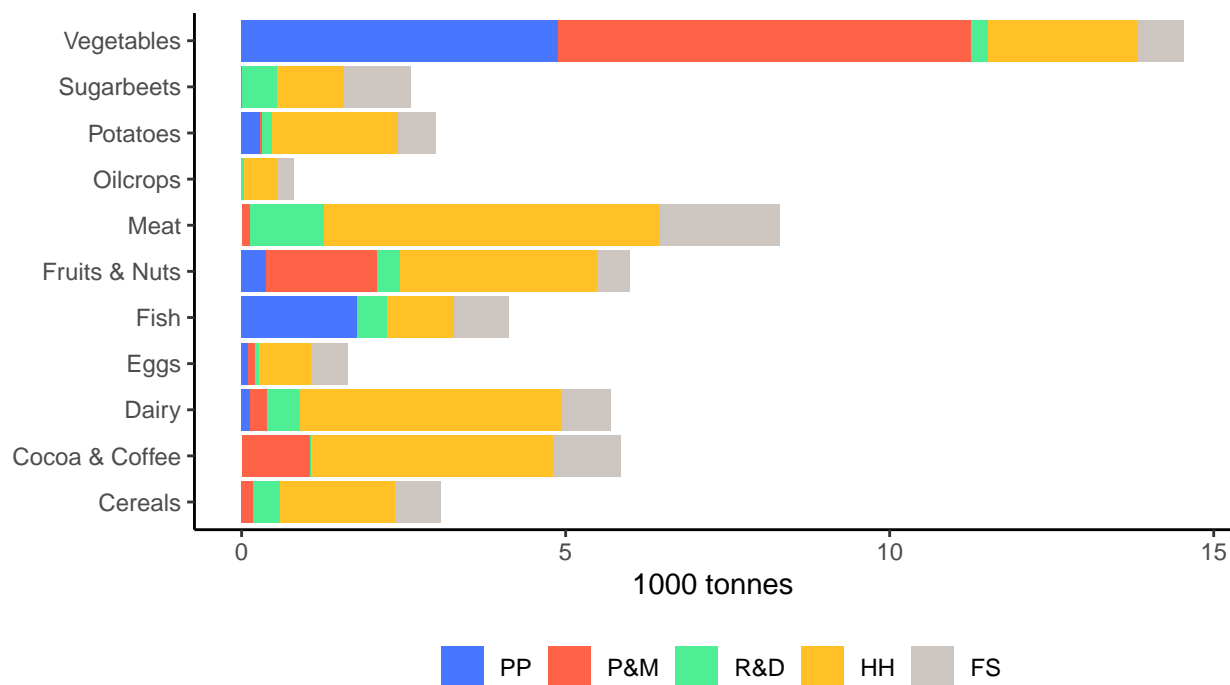


Table 37: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

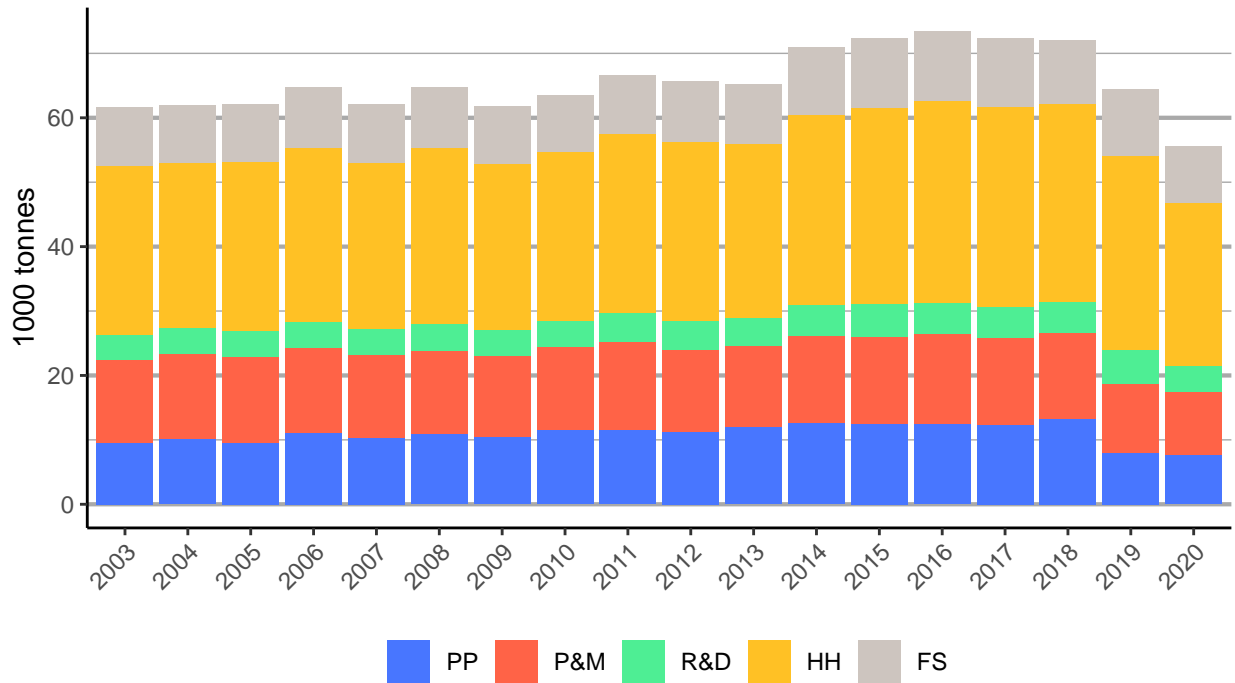
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	47.6	9.5	0.0	12.1	NA
Fruits & Nuts	NA	0.4	0.4	2.9	NA
Vegetables	2.1	0.9	4.5	6.0	NA
Potatoes	0.8	0.1	0.4	0.0	0.0
Sugarbeets	NA	NA	0.0	0.0	0.0
Oilcrops	NA	0.0	0.0	0.0	0.0
Meat	NA	NA	0.7	NA	13.7
Fish	41.1	0.0	0.3	0.0	NA
Dairy	3.4	NA	1.3	11.9	NA
Eggs	NA	NA	0.1	NA	0.2
Cocoa & Coffee	NA	NA	NA	NA	0.2
Total	95.0	11.0	7.7	32.9	14.1

Table 38: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	0.8	3.5	1.4
Fruits & Nuts	0.7	5.9	1.0
Vegetables	0.5	4.5	1.4

	R&D	HH	FS
Potatoes	0.3	3.8	1.1
Sugarbeets	1.1	2.0	2.0
Oilcrops	0.1	1.0	0.5
Meat	2.2	10.1	3.6
Fish	0.9	2.0	1.6
Dairy	1.0	7.8	1.5
Eggs	0.1	1.6	1.1
Cocoa & Coffee	0.0	7.2	2.0
Total	7.8	49.3	17.2

Food Waste timeline, Malta, 2003 – 2020



## Netherlands

Food Waste generation, Netherlands, 2020

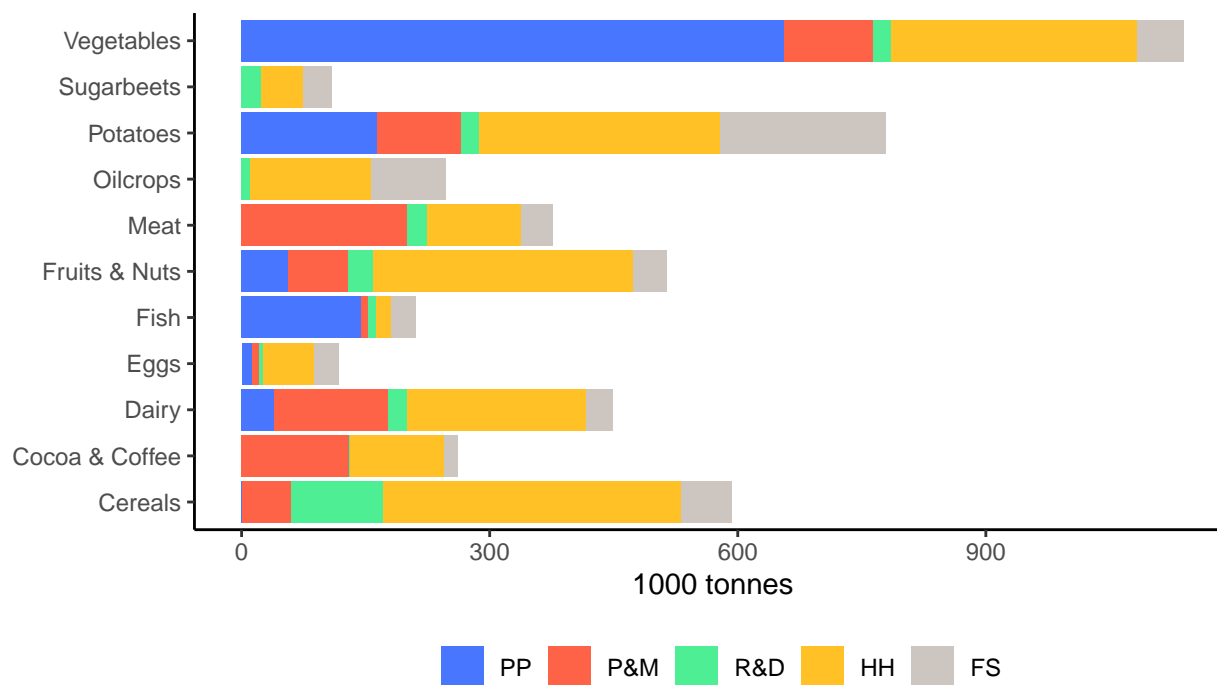


Table 39: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

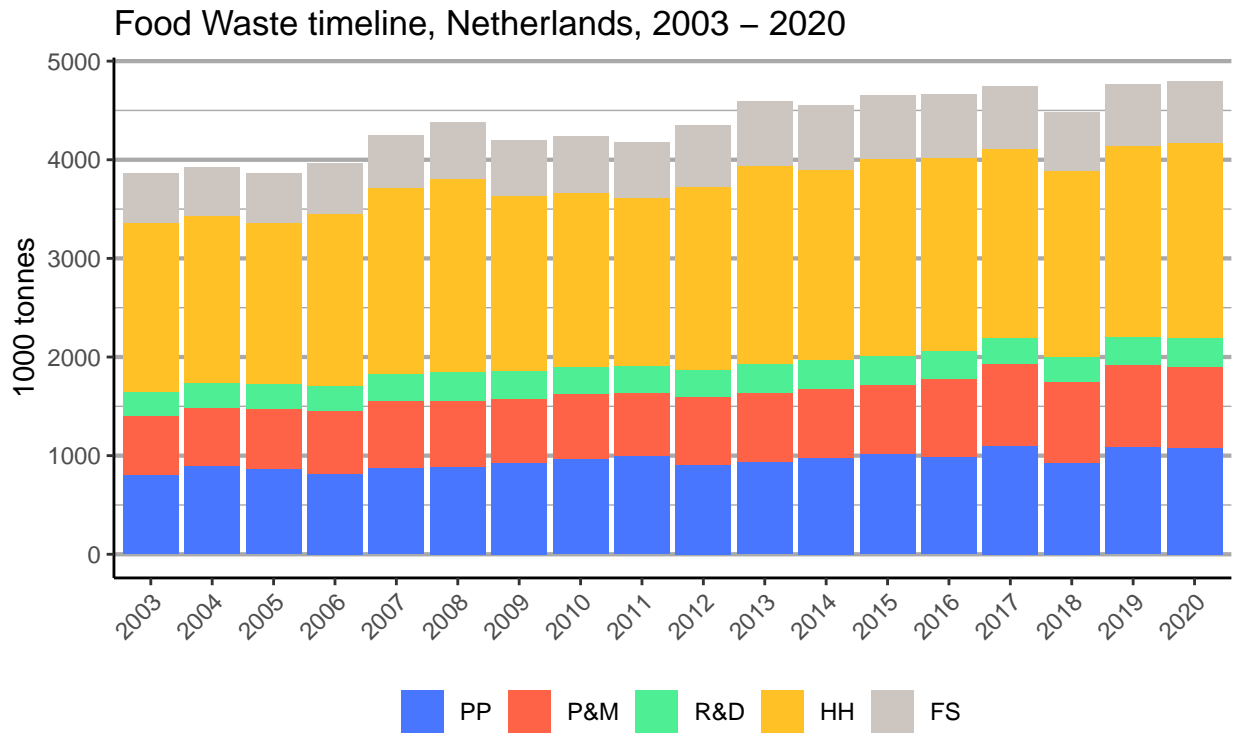
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	9912.7	1022.2	9.1	1063.8	NA
Fruits & Nuts	NA	63.4	69.4	92.2	NA
Vegetables	417.3	89.3	534.8	107.4	NA
Potatoes	652.5	1509.8	232.5	117.1	8.0
Sugarbeets	156.6	NA	102.7	323.5	115.9
Oilcrops	52.0	1012.6	0.1	2435.4	0.4
Meat	NA	NA	223.9	NA	1607.4
Fish	71.4	1.0	47.2	18.0	NA
Dairy	2023.9	NA	394.7	6079.5	NA
Eggs	NA	NA	13.1	NA	20.7
Cocoa & Coffee	NA	NA	NA	NA	38.7
Total	13286.5	3698.4	1627.5	10236.8	1791.1

Table 40: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	6.4	20.7	3.5
Fruits & Nuts	1.7	18.1	2.3
Vegetables	1.2	17.1	3.3



	R&D	HH	FS
Potatoes	1.2	16.7	11.5
Sugarbeets	1.4	2.9	2.0
Oilcrops	0.6	8.3	5.2
Meat	1.4	6.5	2.2
Fish	0.6	1.0	1.7
Dairy	1.3	12.4	1.9
Eggs	0.3	3.5	1.7
Cocoa & Coffee	0.1	6.6	0.9
Total	16.3	113.9	36.1



## Poland

### Food Waste generation, Poland, 2020

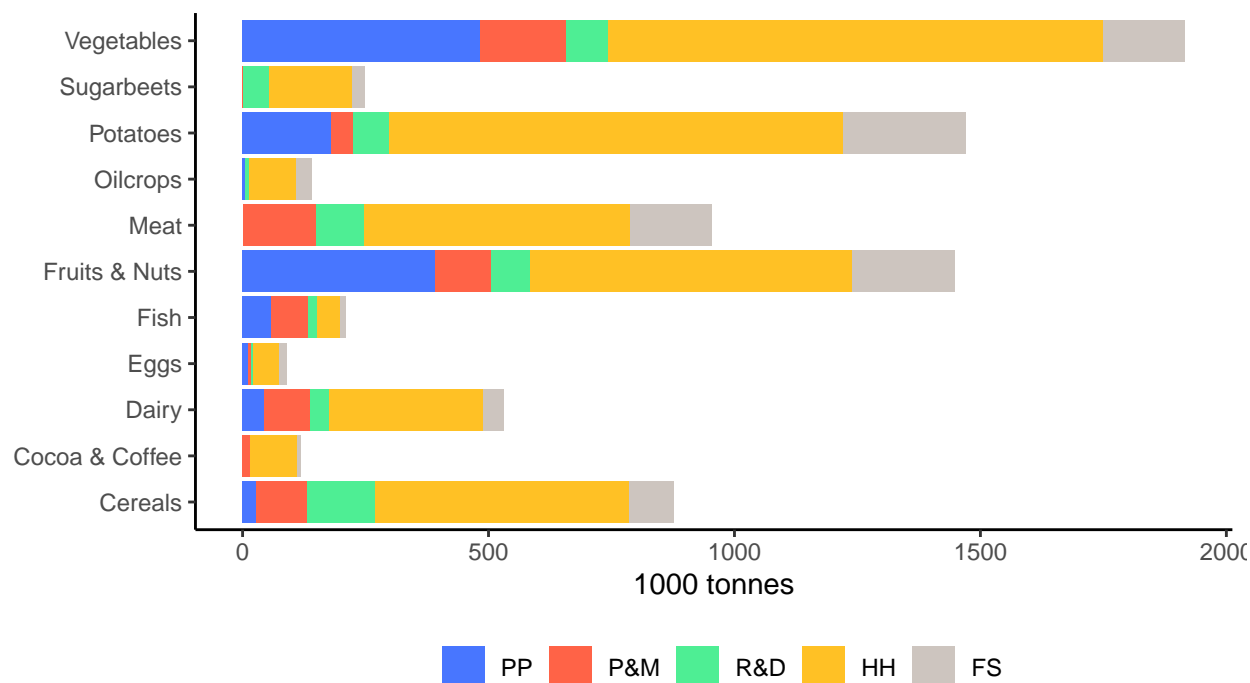


Table 41: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

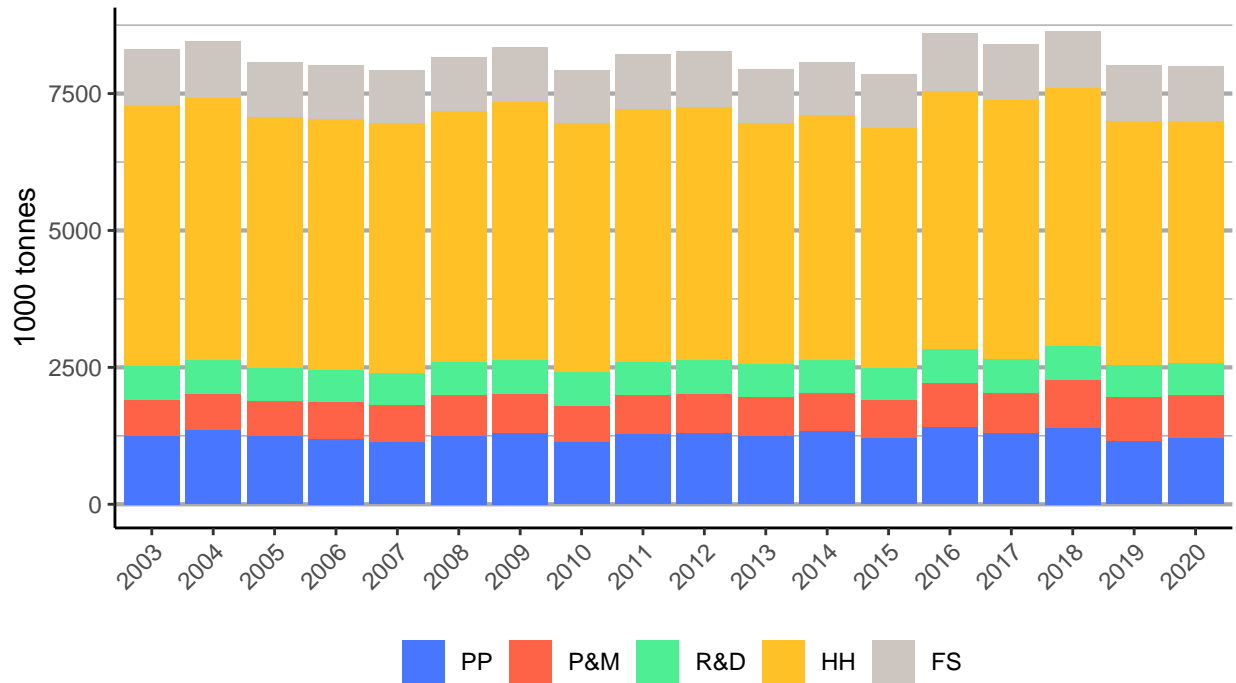
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	17330.9	1761.9	238.1	2882.5	NA
Fruits & Nuts	NA	386.5	301.1	132.4	NA
Vegetables	738.8	73.3	463.5	162.4	NA
Potatoes	2415.9	311.2	257.2	49.7	3.4
Sugarbeets	558.8	NA	213.8	879.0	0.0
Oilcrops	118.2	1634.7	52.9	683.6	0.4
Meat	NA	NA	284.8	NA	2216.3
Fish	113.0	0.0	35.0	169.1	NA
Dairy	355.9	NA	449.5	4127.2	NA
Eggs	NA	NA	10.8	NA	15.5
Cocoa & Coffee	NA	NA	NA	NA	35.9
Total	21631.6	4167.7	2306.7	9086.0	2271.4

Table 42: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	3.7	13.6	2.4
Fruits & Nuts	2.0	17.3	5.5
Vegetables	2.2	26.5	4.4

	R&D	HH	FS
Potatoes	1.9	24.3	6.6
Sugarbeets	1.4	4.5	0.6
Oilcrops	0.2	2.6	0.8
Meat	2.6	14.3	4.3
Fish	0.4	1.2	0.3
Dairy	1.0	8.3	1.1
Eggs	0.1	1.4	0.4
Cocoa & Coffee	0.0	2.5	0.2
Total	15.5	116.4	26.7

Food Waste timeline, Poland, 2003 – 2020



## Portugal

Food Waste generation, Portugal, 2020

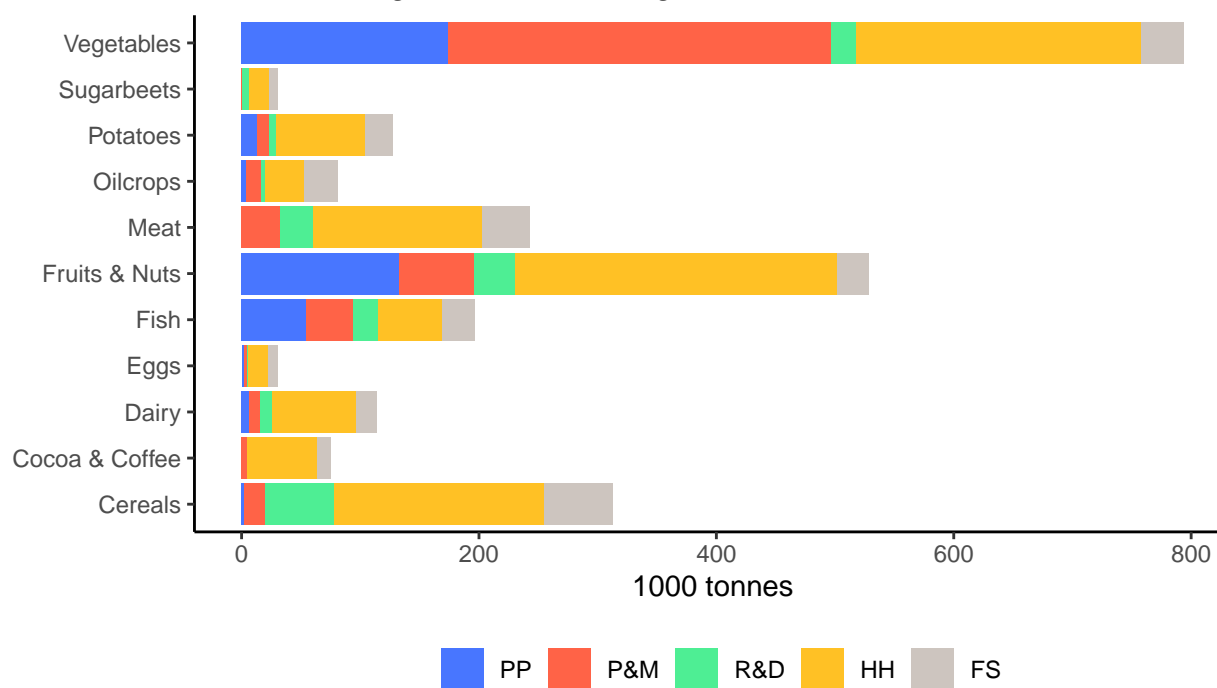


Table 43: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

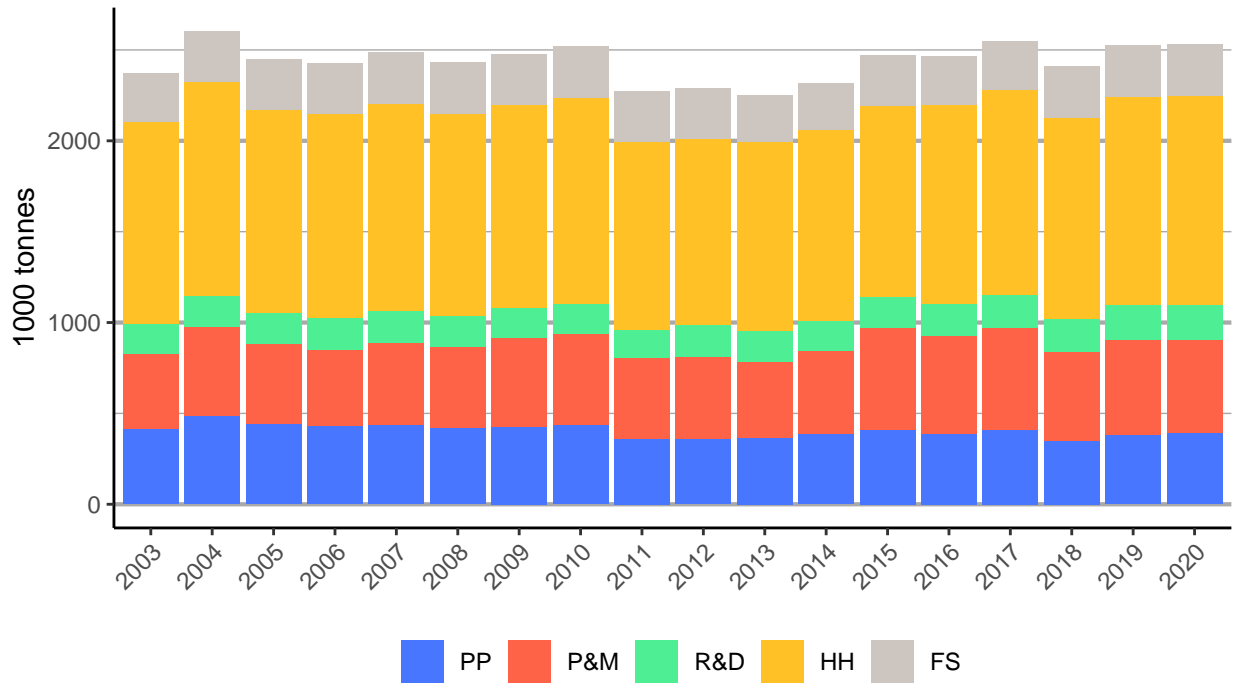
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2616.2	68.0	7.1	586.1	NA
Fruits & Nuts	0.9	152.9	126.4	307.5	NA
Vegetables	92.3	72.4	128.6	276.6	NA
Potatoes	37.4	27.2	18.5	12.2	0.8
Sugarbeets	NA	NA	0.0	0.0	6.4
Oilcrops	56.0	476.6	34.7	1222.8	204.0
Meat	NA	NA	69.2	NA	471.8
Fish	32.0	0.0	11.3	88.2	NA
Dairy	62.9	NA	63.3	439.5	NA
Eggs	NA	NA	2.5	NA	4.5
Cocoa & Coffee	NA	NA	NA	NA	11.9
Total	2897.6	797.2	461.5	2933.0	699.5

Table 44: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	5.6	17.1	5.6
Fruits & Nuts	3.3	26.3	2.6
Vegetables	2.1	23.3	3.5

	R&D	HH	FS
Potatoes	0.5	7.3	2.3
Sugarbeets	0.6	1.6	0.7
Oilcrops	0.3	3.2	2.8
Meat	2.7	13.8	3.9
Fish	2.1	5.3	2.6
Dairy	0.9	6.9	1.7
Eggs	0.1	1.6	0.8
Cocoa & Coffee	0.0	5.7	1.1
Total	18.4	112.1	27.6

Food Waste timeline, Portugal, 2003 – 2020



## Romania

### Food Waste generation, Romania, 2020

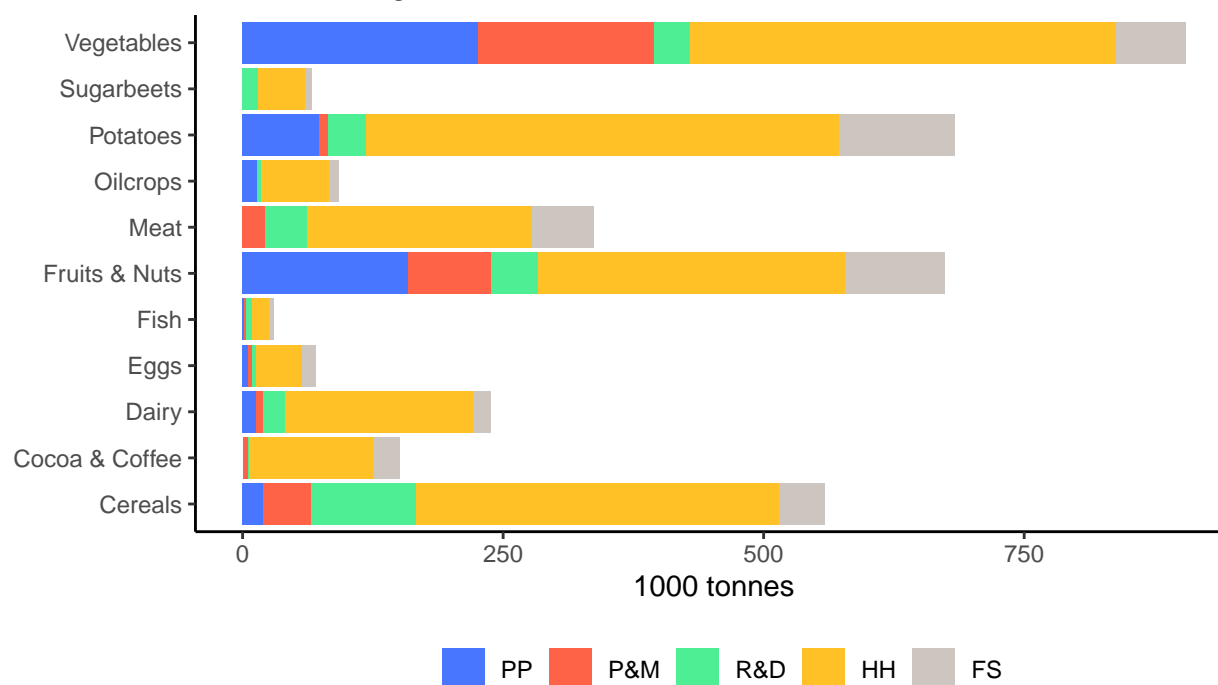


Table 45: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

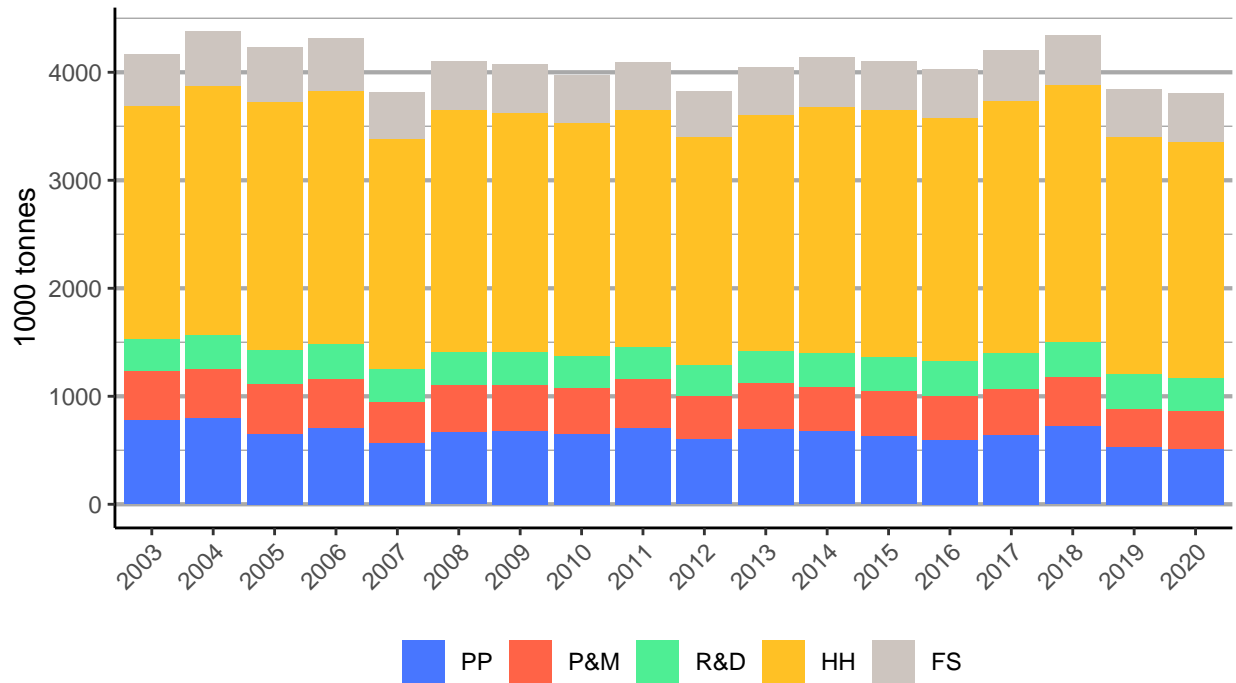
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	6848.2	701.5	146.6	1306.0	NA
Fruits & Nuts	172.7	184.4	171.4	306.5	NA
Vegetables	292.9	40.1	227.5	156.9	NA
Potatoes	216.7	129.1	104.0	10.7	0.7
Sugarbeets	43.5	NA	11.5	68.4	0.0
Oilcrops	25.9	361.2	124.2	1000.2	0.0
Meat	NA	NA	52.5	NA	583.4
Fish	19.0	4.2	10.2	4.3	NA
Dairy	158.3	NA	131.1	315.2	NA
Eggs	NA	NA	5.2	NA	10.7
Cocoa & Coffee	NA	NA	NA	NA	18.3
Total	7777.3	1420.6	984.2	3168.3	613.1

Table 46: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	5.2	18.0	2.2
Fruits & Nuts	2.4	15.2	5.0
Vegetables	1.8	21.1	3.5

	R&D	HH	FS
Potatoes	1.9	23.5	5.7
Sugarbeets	0.8	2.4	0.3
Oilcrops	0.2	3.4	0.5
Meat	2.1	11.1	3.1
Fish	0.3	0.8	0.2
Dairy	1.1	9.4	0.9
Eggs	0.2	2.3	0.7
Cocoa & Coffee	0.0	6.2	1.3
Total	15.9	113.3	23.3

Food Waste timeline, Romania, 2003 – 2020



## Slovakia

### Food Waste generation, Slovakia, 2020

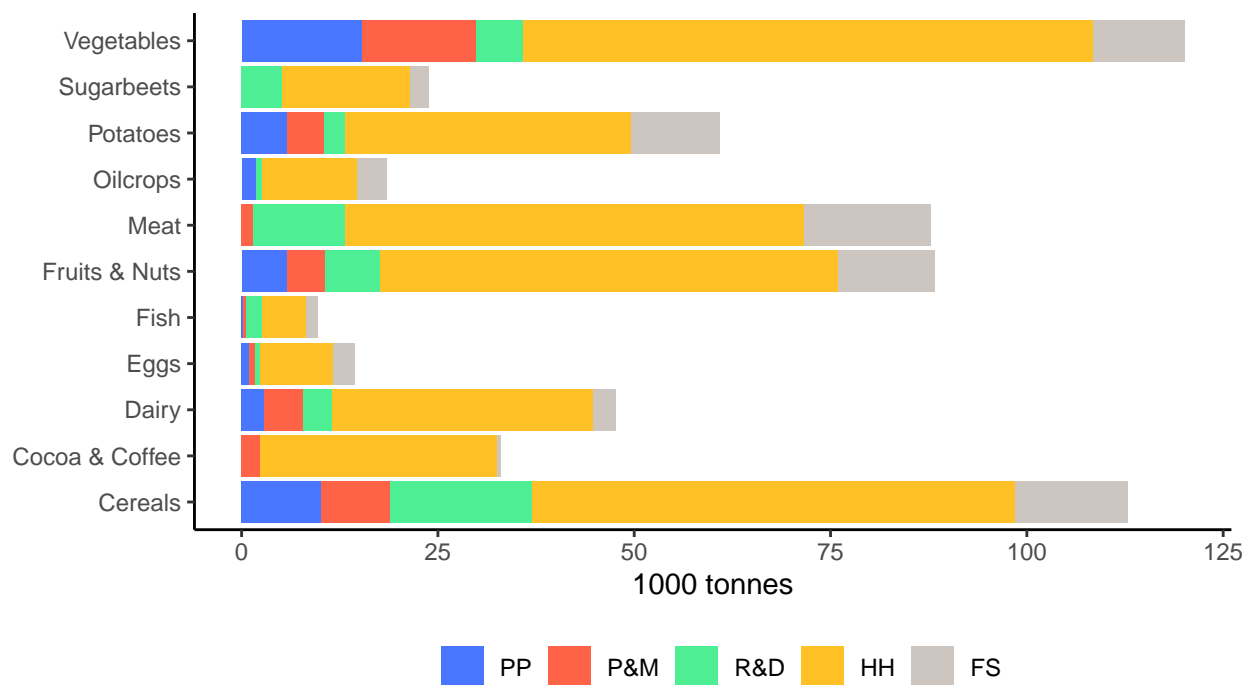


Table 47: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	983.1	88.0	75.3	379.6	NA
Fruits & Nuts	NA	6.4	4.7	7.4	NA
Vegetables	12.0	1.7	12.9	14.4	NA
Potatoes	13.6	2.5	8.3	5.3	0.4
Sugarbeets	44.2	NA	19.2	86.1	0.0
Oilcrops	10.8	150.0	16.5	79.8	0.0
Meat	NA	NA	7.0	NA	138.2
Fish	1.5	0.1	1.8	0.9	NA
Dairy	8.1	NA	28.6	220.7	NA
Eggs	NA	NA	0.9	NA	2.0
Cocoa & Coffee	NA	NA	NA	NA	0.7
Total	1073.4	248.7	175.3	794.2	141.2

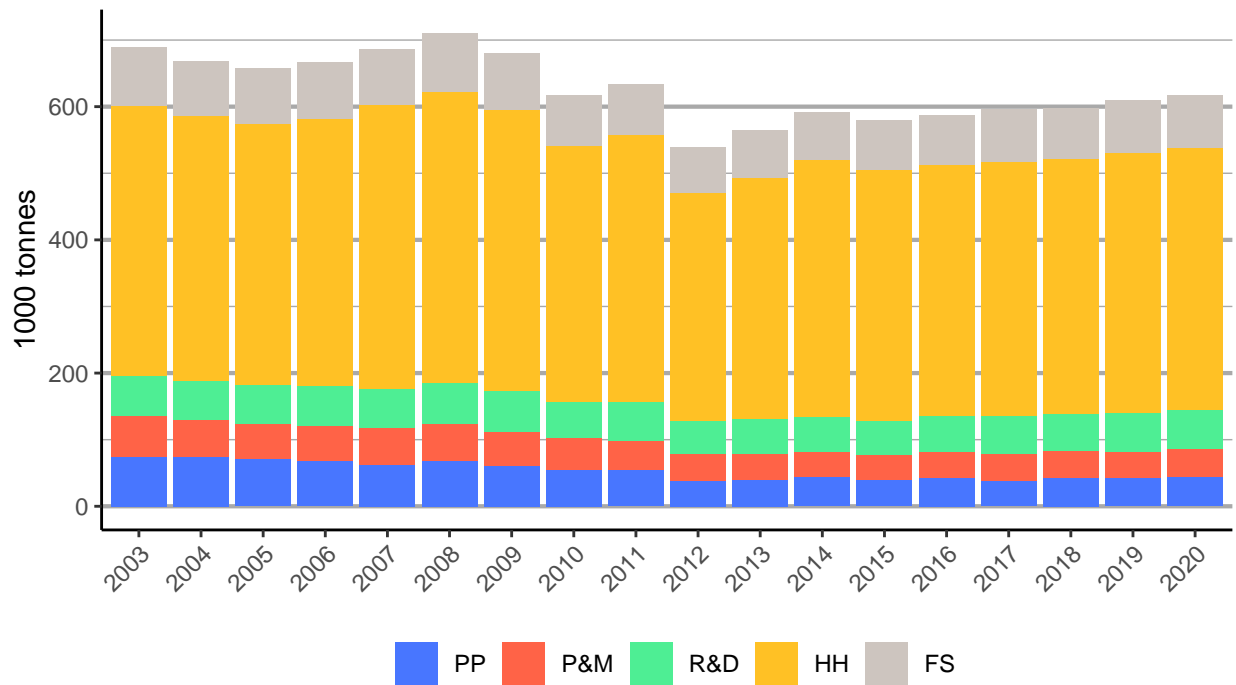
Table 48: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	3.3	11.3	2.6
Fruits & Nuts	1.3	10.7	2.2
Vegetables	1.1	13.3	2.1



	R&D	HH	FS
Potatoes	0.5	6.7	2.1
Sugarbeets	1.0	3.0	0.4
Oilcrops	0.1	2.2	0.7
Meat	2.2	10.7	2.9
Fish	0.4	1.0	0.3
Dairy	0.7	6.1	0.5
Eggs	0.1	1.7	0.5
Cocoa & Coffee	0.0	5.5	0.1
Total	10.6	72.2	14.5

Food Waste timeline, Slovakia, 2003 – 2020



## Slovenia

### Food Waste generation, Slovenia, 2020

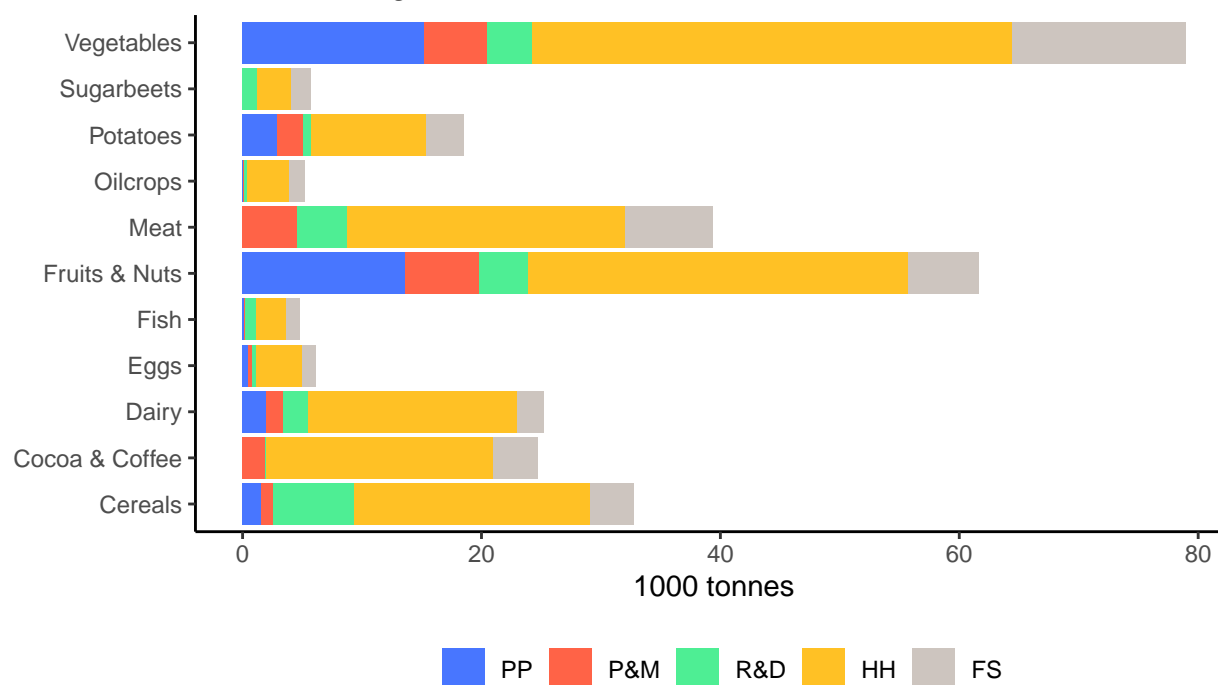


Table 49: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

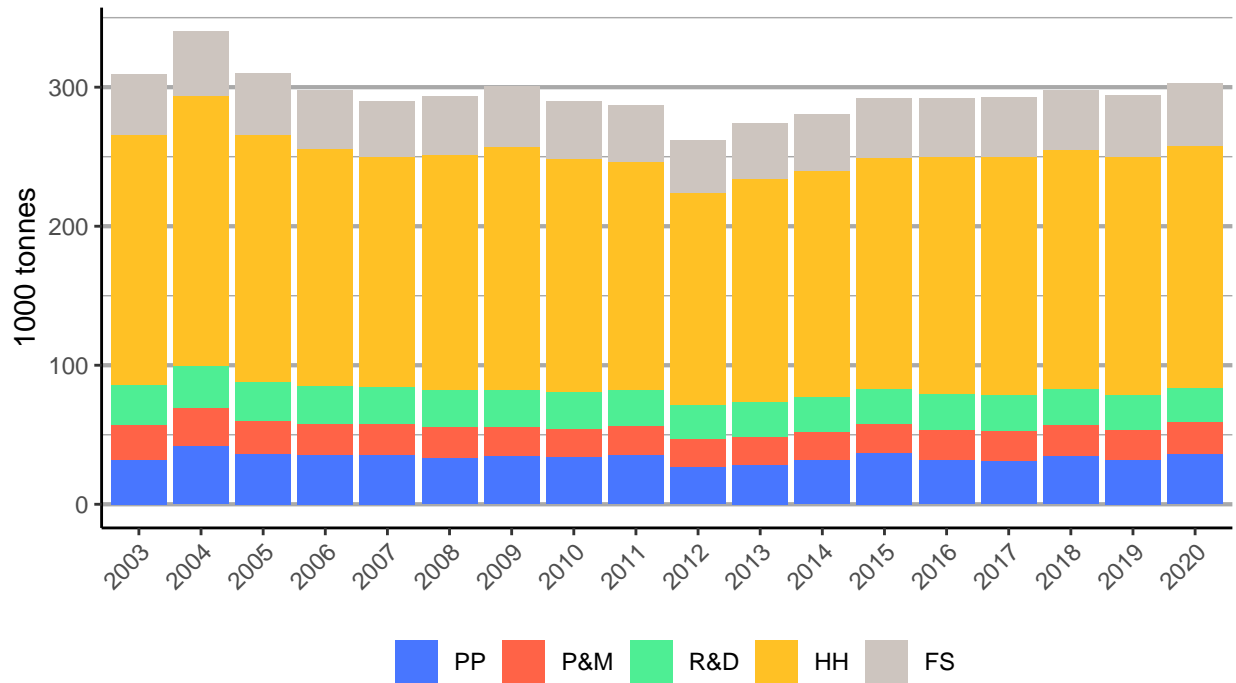
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	286.0	14.3	12.5	124.9	NA
Fruits & Nuts	NA	15.0	11.2	35.1	NA
Vegetables	11.0	1.9	16.3	5.3	NA
Potatoes	10.4	1.2	4.1	2.6	0.2
Sugarbeets	0.1	NA	0.1	0.0	6.4
Oilcrops	2.0	0.5	0.4	1.0	1.0
Meat	NA	NA	9.2	NA	94.4
Fish	1.6	NA	0.8	0.0	NA
Dairy	1.4	NA	19.6	62.8	NA
Eggs	NA	NA	0.5	NA	0.9
Cocoa & Coffee	NA	NA	NA	NA	3.2
Total	312.4	32.9	74.8	231.5	106.1

Table 50: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	3.2	9.4	1.7
Fruits & Nuts	2.0	15.2	2.8
Vegetables	1.8	19.1	6.9

	R&D	HH	FS
Potatoes	0.3	4.6	1.5
Sugarbeets	0.6	1.4	0.8
Oilcrops	0.1	1.7	0.6
Meat	2.0	11.1	3.5
Fish	0.5	1.2	0.5
Dairy	1.0	8.3	1.1
Eggs	0.1	1.8	0.5
Cocoa & Coffee	0.1	9.1	1.8
Total	11.7	82.9	21.8

Food Waste timeline, Slovenia, 2003 – 2020



## Spain

### Food Waste generation, Spain, 2020

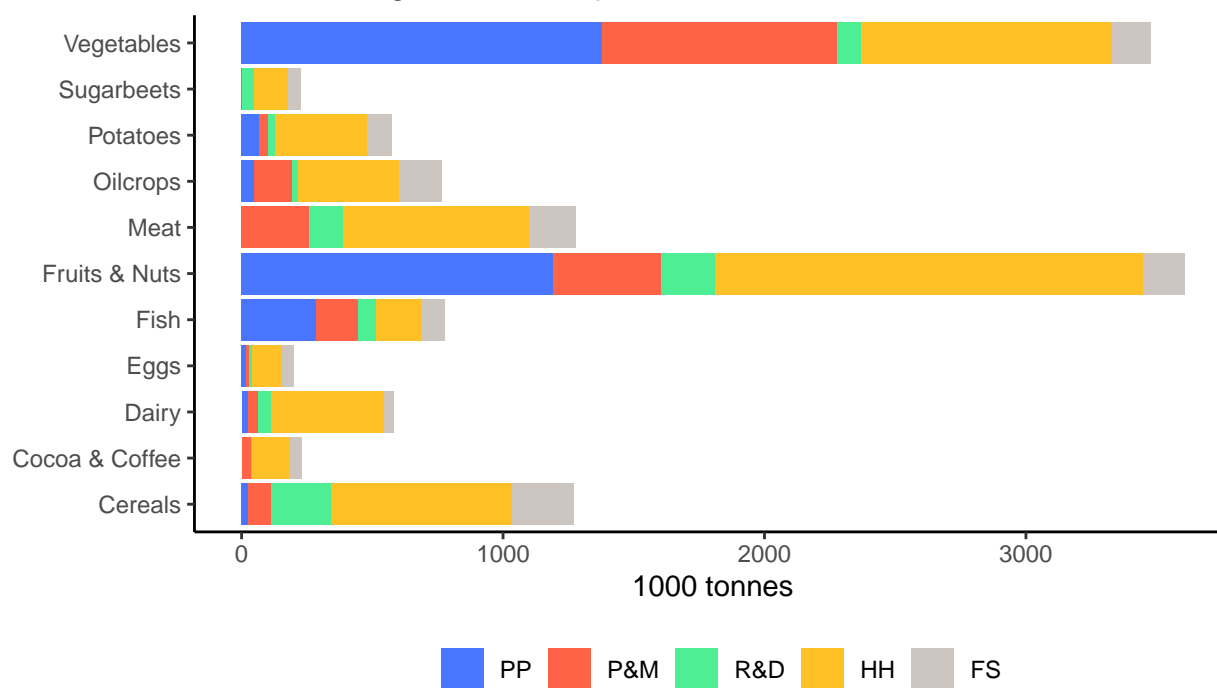


Table 51: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

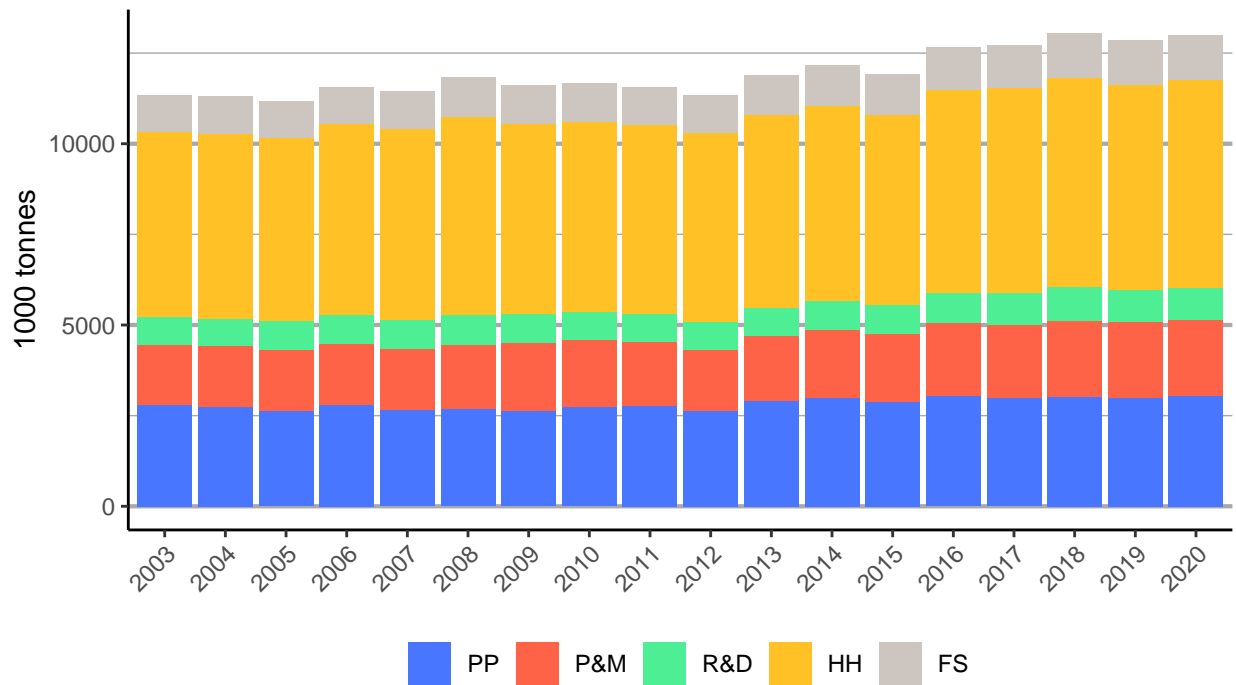
	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	29676.9	1280.2	122.0	2533.7	NA
Fruits & Nuts	6.1	1376.4	1155.8	2182.7	NA
Vegetables	1516.2	290.8	1285.3	798.8	NA
Potatoes	144.5	292.3	93.2	42.6	2.9
Sugarbeets	66.2	NA	37.2	173.6	0.0
Oilcrops	380.5	1052.2	429.0	4960.9	2289.8
Meat	NA	NA	508.3	NA	3274.9
Fish	203.9	0.9	125.4	356.1	NA
Dairy	239.3	NA	262.6	1637.2	NA
Eggs	NA	NA	17.5	NA	30.8
Cocoa & Coffee	NA	NA	NA	NA	83.6
Total	32233.6	4292.8	4036.1	12685.6	5682.0

Table 52: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	4.8	14.7	5.0
Fruits & Nuts	4.4	34.5	3.3
Vegetables	1.9	20.2	3.1

	R&D	HH	FS
Potatoes	0.5	7.5	2.0
Sugarbeets	1.0	2.7	1.0
Oilcrops	0.5	8.1	3.4
Meat	2.8	15.1	3.7
Fish	1.4	3.6	1.9
Dairy	1.0	9.2	0.8
Eggs	0.2	2.4	0.9
Cocoa & Coffee	0.0	3.0	0.9
Total	18.8	121.1	26.1

Food Waste timeline, Spain, 2003 – 2020



## Sweden

### Food Waste generation, Sweden, 2020

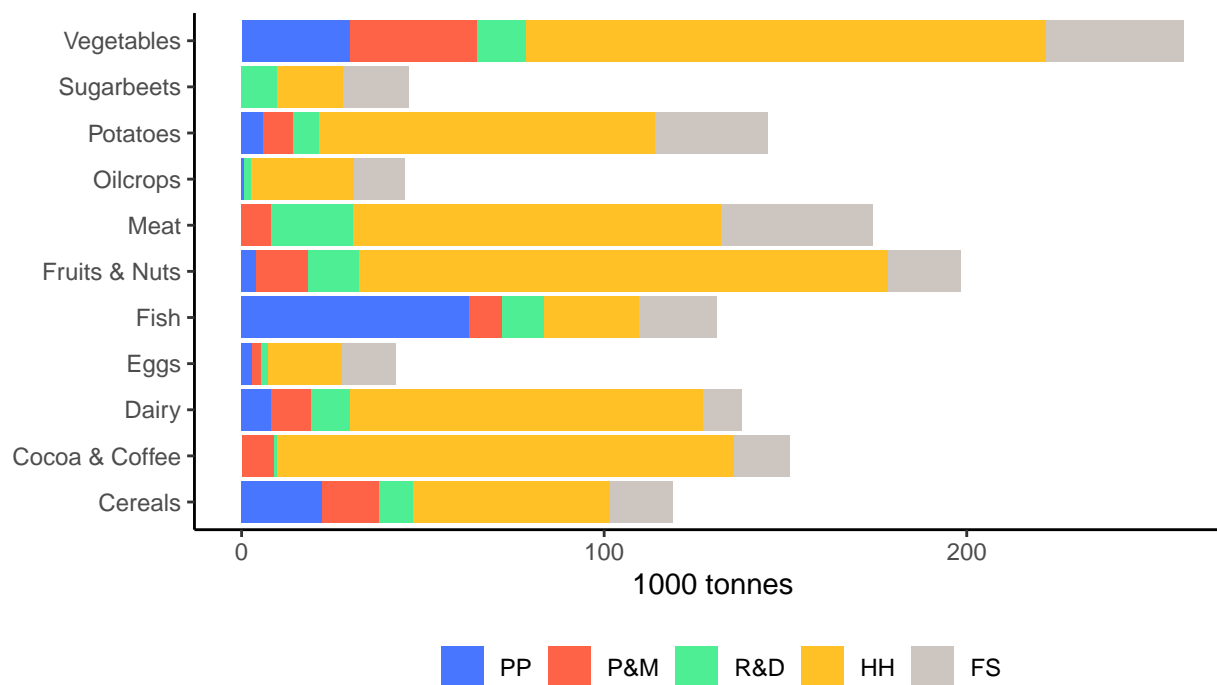


Table 53: Amount of each commodity used for animal feed and non-food uses at PP and PM, and food losses generated at PP. Values expressed in kt.

	PP Animal feed	PP Non food	PP Losses	P&M Animal feed	P&M Non food
Cereals	2713.7	80.0	13.6	604.8	NA
Fruits & Nuts	NA	4.1	3.7	18.2	NA
Vegetables	125.4	9.1	36.6	34.4	NA
Potatoes	32.3	242.4	0.0	9.7	0.7
Sugarbeets	85.5	NA	30.5	90.9	12.9
Oilcrops	17.8	198.6	5.7	103.7	0.0
Meat	NA	NA	39.5	NA	345.3
Fish	40.2	0.0	22.0	20.4	NA
Dairy	127.8	0.8	82.1	487.1	NA
Eggs	NA	NA	3.0	NA	5.6
Cocoa & Coffee	NA	NA	NA	NA	28.2
Total	3142.8	535.1	236.7	1369.2	392.6

Table 54: Per capita food waste generated at R&D, HH and FS. Values expressed in kg person-1 year-1.

	R&D	HH	FS
Cereals	0.9	5.3	1.7
Fruits & Nuts	1.4	14.1	1.9
Vegetables	1.3	13.9	3.7

	R&D	HH	FS
Potatoes	0.7	9.0	3.0
Sugarbeets	0.9	1.8	1.8
Oilcrops	0.2	2.8	1.4
Meat	2.2	9.8	4.0
Fish	1.1	2.5	2.1
Dairy	1.0	9.4	1.0
Eggs	0.2	2.0	1.4
Cocoa & Coffee	0.1	12.2	1.5
Total	10.1	82.8	23.4

Food Waste timeline, Sweden, 2003 – 2020

