

## 2.1.a Nitrogen surplus in agriculture

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Total balanc	e, in kilograms	per hectare of u	ıtilized agricult	ural area						
Total nitrogen supply	184	195	183	189	187	199	192	185	172	168	169
Fertiliser	99	111	103	103	105	113	107	103	93	84	86
Mineral fertiliser	94	107	99	99	100	109	103	100	90	81	83
Farm manure (imports)	1	1	1	1	1	1	1	1	1	0	0
Farmyard manure	4	4	4	3	4	3	3	3	3	3	3
Nitrogen deposition from non-agricultural emissions (NO <sub>x</sub> )	5	4	4	5	4	4	4	4	3	3	3
Biological nitrogen fixation	12	12	12	12	12	12	13	13	13	13	14
Seeds and planting material	1	1	1	1	1	1	1	1	1	1	1
Domestic feedstuff (territorial concept)	40	35	38	42	42	42	41	39	32	35	38
Feeding stuff from plants	14	11	12	14	13	14	13	12	10	9	11
Feeding stuff from animals	1	1	1	1	1	1	1	1	1	1	1
Primary feeding stuff as market products	25	23	25	27	28	27	27	26	21	25	27
Foreign feedstuff (imports)	25	29	23	25	21	24	24	22	26	29	24
Coenzyme	2	2	2	2	2	2	2	2	2	2	2
Total nitrogen output	94	89	92	96	102	97	93	95	84	89	89
Plant-based market products	65	60	63	67	72	67	63	65	54	59	59
Cereals	48	45	47	49	52	51	47	48	40	46	44
Legumes	1	1	1	1	1	1	1	1	1	1	1
Root crops without fodder potatoes, potato waste	4	6	5	4	6	4	5	6	5	5	5
Industrial crops (e.g. oleaginous fruit)	12	8	10	12	13	10	9	9	8	6	7
Dry green fodder	0	0	0	0	0	0	0	0	0	0	0
Other field crops	1	1	1	1	1	1	1	1	1	1	1
Animal market products	28	29	29	29	30	30	30	30	30	30	30
Meat	13	13	13	13	13	13	13	13	13	13	13
Other animal products	10	11	11	11	11	11	12	12	12	12	12
Slaughterhouse waste	5	5	5	5	5	5	5	5	5	5	5
Nitrogen balance	90	106	91	94	85	102	98	90	88	79	80

## Notes

- Due to methodological changes, the results can only be compared to a limited extent with data from previous publications. Due to the accuracy shown in the tables, there may be differences in some of the interim results. Discrepancies in totals due to rounding of numbers
- 2020 provisional data.
- Cereals excluding cereal grains and Com-Cop-Mix in biogas plants.
- Nitrogen balance (excess nitrogen): Total nitrogen supply minus total nitrogen output.

## Data sources:

Institute for Crop and Soil Science, Julius Kühn-Institute and Institute of Landscape Ecology and Resources Management, University of Giessen

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