

CROPS EXCLUDING STRAW, INCORPORATING BASIC PRECROP VALUES IN RECALCULATED N NORMS

Crop	WRS	WWH	WWB	WBA	WYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	CGR	GHP	GRP	CGR0	Note 1
Crop #	22	11	13	10	14	14	16	1	2	3	5	216	263	260	261	2520	252	2610
Precrop value, kg N/ha	27	0	0	0	0	0	0	0	0	0	0	0	9.5	43.5	43.5	0	0	87
Protein content, %, dry matter	21.0	11.5	12.0	11.1	9.6	10.5	10.8	11.5	10.2	9.5	10.0	20.7	22.2	23.7	11.2	20.7	23.7	Note 3
Digestibility of fodder protein, %	84.0	67.0	68.0	66.0	62.0	65.0	65.0	66.9	64.0	62.0	63.0	78.3	79.5	80.3	66.0	78.3	80.3	Note 4
Water content, %	9.0	15.0	14.5	15.0	15.0	15.0	15.0	15.0	15.0	12.5	77.0	82.0	82.0	82.0	16.0	82.0	82.0	Note 5
N content, kg N/t dry matter	33.6	18.4	19.2	17.8	15.4	16.8	17.3	18.4	16.3	15.2	16.0	33.1	35.5	37.9	17.9	33.1	37.9	Note 6
N content, kg N/t crop	30.6	15.6	16.4	15.1	13.1	14.3	14.7	15.6	13.9	13.3	3.7	6.0	6.4	6.8	15.1	6.0	6.8	Note 7
Digestible N content, kg N/t crop	25.7	10.5	11.2	10.0	8.1	9.3	9.5	10.5	8.9	8.2	2.3	4.7	5.1	5.5	9.9	4.7	5.5	Note 8

Weighed average values of all Danish soils
% of DK

Yield norm, hkg/ha, FU/ha	30	65	65	58	53	52	48	44	49	65	9676	7200	6931	5855	39	3000	5855	Note 9
Yield norm, t/ha	3.0	6.5	6.5	5.8	5.3	5.2	4.8	4.4	4.9	6.5	45.4	43.1	41.5	35.1	3.9	18.0	35.1	Note 10
N content, kg N/ha	92.4	101.0	106.0	87.6	69.2	74.3	70.3	68.6	67.8	86.4	167.0	257.2	265.6	239.5	58.0	107.2	239.5	Note 11
N norm, basic, kg N/ha	171	157	198	147	117	141	118	118	93	140	160	319	243	64	132	132	0	Note 12
N norm, recalculated, kg N/ha	144	157	198	147	117	141	118	118	93	140	160	309	199	21	132	132	-87	Note 13
NUJ/e = N uptake efficiency	0.64	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73	0.62	1.05	0.83	1.33	11.68	0.44	0.81	-2.75	Note 14
NUJ/eD = Digestible N uptake efficiency	0.54	0.43	0.36	0.39	0.37	0.34	0.39	0.39	0.47	0.38	0.66	0.65	1.06	9.38	0.29	0.64	-2.21	Note 15

Weighed average values of 2/3 best Danish soils, all JB except JB 1+3

% of DK	69
Yield norm, hkg/ha, FU/ha	33
Yield norm, t/ha	3.3
N content, kg N/ha	102.3
N norm, basic, kg N/ha	175
N norm, recalculated, kg N/ha	148
NUJ/e = N uptake efficiency	0.69
NUJ/eD = Digestible N uptake efficiency	0.58

Actual average values harvested in Denmark

Yield, t/ha	2007	32.9	65.8	50.3	45.8	47.1	48.8	43.9	47.2	47.2	48.5	49.9	48.5	48.5	49.9	48.5	48.5	48.5	Note 16
Yield, t/ha	2006	34.9	70.4	56.5	47.3	49.5	45.6	35.2	39.5	39.5	46.1	49.9	48.5	48.5	49.9	48.5	48.5	48.5	Note 17
Yield, t/ha	2005	31.0	72.8	60.0	48.3	48.5	52.3	46.0	45.5	45.5	51.9	52.2	51.9	52.2	51.9	52.2	51.9	52.2	Note 18
Yield, t/ha	2004	38.6	72.2	60.1	46.2	47.6	49.7	39.3	50.0	50.0	46.2	49.9	48.5	48.5	49.9	48.5	48.5	48.5	Note 19
Yield, t/ha	2003	33.8	71.3	59.0	51.2	52.2	51.9	43.5	52.4	52.4	46.1	49.9	48.5	48.5	49.9	48.5	48.5	48.5	Note 20
Yield, t/ha	2002	26.9	70.9	55.7	49.4	48.4	49.0	42.2	49.9	49.9	51.9	52.2	51.9	52.2	51.9	52.2	51.9	52.2	Note 21
Yield, t/ha	2001	28.0	73.9	57.9	50.9	48.6	52.2	46.1	48.5	48.5	53.2	53.2	51.9	52.3	51.9	52.3	51.9	52.3	Note 22
Yield, t/ha	2000	31.4	75.1	55.6	52.0	48.1	48.8	46.2	50.2	50.2	46.2	50.2	46.2	50.2	46.2	50.2	46.2	50.2	Note 23
Yield, t/ha	1999	28.0	70.4	56.7	48.5	46.5	48.8	46.2	50.2	50.2	53.4	53.4	51.1	51.1	51.1	51.1	51.1	51.1	Note 24
Yield, t/ha	1998	32.7	72.6	57.5	51.2	51.3	50.2	53.4	51.1	51.1	53.4	53.4	51.1	51.1	51.1	51.1	51.1	51.1	Note 25
Yield, t/ha	1998-2007	31.8	71.5	56.9	49.1	48.8	50.2	44.8	48.7	48.7	44.8	48.7	44.8	48.7	44.8	48.7	44.8	48.7	Note 26

CEREAL CROPS EXCLUDING STRAW, INCORPORATING BASIC PRECROP VALUES
AND RECEIVED ADDITIONAL PRECROP VALUES FROM NON CEREALS IN RECALCULATED N NORMS

Crop	WWH	WWB	WBA	RYE	TRI	SBA	SWH	OAT	Note
Crop #	11	13	10	14	16	1	2	3	Note 1
Precrop value, kg N/ha	0	0	0	0	0	0	0	0	Note 1
Protein content, %, dry matter	11.5	12.0	11.1	9.6	10.5	10.8	11.5	10.2	Note 2
Digestibility of fodder protein, %	67	68	66	62	65	65	66.9	64	Note 3
Water content, %	15	14.5	15	15	15	15	15	15	Note 4
N content, kg N/t dry matter	18.4	19.2	17.76	15.36	16.8	17.28	18.4	16.32	Note 5
N content, kg N/t crop	15.6	16.4	15.1	13.1	14.3	14.7	15.6	13.9	Note 6
Digestible N content, kg N/t crop	10.5	11.2	10.0	8.1	9.3	9.5	10.5	8.9	Note 7
									Note 8
Weighed average values of all Danish soils									
% of DK	71.2	71.2	64.3	58.7	57.5	52.9	48.8	48.9	Note 9
Yield norm, hkg/ha, FU/ha	7.1	7.1	6.4	5.9	5.7	5.3	4.9	4.9	Note 10
Yield norm, t/ha	111.4	116.9	97.1	76.6	82.1	77.7	76.4	67.8	Note 11
N content, kg N/ha	157	198	147	117	141	118	118	93	Note 12
N norm, basic, kg N/ha	157	198	147	117	141	118	118	93	Note 13
N norm, recalculated, kg N/ha	0.71	0.59	0.66	0.66	0.58	0.66	0.65	0.73	Note 14
NUE/e = N uptake efficiency	0.47	0.40	0.44	0.41	0.38	0.43	0.43	0.47	Note 15
NUED/eD = Digestible N uptake efficiency									Note 16
Weighed average values of 2/3 best Danish soils, all JB except JB 1+3									
% of DK	69								Note 17
Yield norm, hkg/ha, FU/ha	78.9	78.9	68.9	65.2	63.1	57.3	52.8	52.0	Note 18
Yield norm, t/ha	7.9	7.9	6.9	6.5	6.3	5.7	5.3	5.2	Note 19
N content, kg N/ha	123.5	129.6	104.1	85.2	90.1	84.2	82.6	72.1	Note 20
N norm, basic, kg N/ha	160	203	146	118	141	118	118	92	Note 21
N norm, recalculated, kg N/ha	160	203	146	118	141	118	118	92	Note 22
NUE/e = N uptake efficiency	0.77	0.64	0.71	0.72	0.64	0.71	0.70	0.78	Note 23
NUED/eD = Digestible N uptake efficiency	0.52	0.43	0.47	0.45	0.42	0.46	0.47	0.50	Note 24
Increase in <NUE/e>, all Danish soils									
Increase in <NUE/e>, best 2/3 Danish soils	1.10	1.10	1.11	1.11	1.10	1.11	1.11	1.00	Note 25
Additional precrop value, all Danish soils									
Additional precrop value, best 2/3 Danish soils	16.11	20.26	15.98	12.55	14.76	12.48	13.43	0.00	Note 26
Number of ha currently cultivated in DK									
Number of ha currently cultivated in DK	682	0	161	30	42	527	10		Note 27
Additional precrop value, weighed average, all Danish soils									
Additional precrop value, weighed average, best 2/3 Danish soils	682	0	161	30	42	527	10		Note 28
Additional precrop value, weighed average, all Danish soils									
Additional precrop value, weighed average, best 2/3 Danish soils				14.64					Note 29
				14.89					Note 30

CROPS EXCLUDING STRAW, INCORPORATING BASIC PRECROP VALUES AND CONTRIBUTED ADDITIONAL PRECROP VALUES BEFORE CEREALS IN RECALCULATED N NORMS

Crop	WRS	WWH	WWB	WBA	WYE	TRI	SBA	SWH	OAT	MCC	MCW	GRO	GCR	GCR	GHP	GRP	CGR0	Note 1
Crop #	22	11	13	10	14	14	16	1	2	3	5	216	263	260	261	2520	252	2610
Precrop value, kg N/ha	27	0	0	0	0	0	0	0	0	0	0	0	9.5	43.5	43.5	0	0	87
Protein content, %, dry matter	21.0	11.5	12.0	11.1	9.6	10.5	10.8	11.5	10.2	9.5	10.0	20.7	22.2	23.7	23.7	11.2	20.7	23.7
Digestibility of fodder protein, %	84.0	67.0	68.0	66.0	62.0	65.0	65.0	66.9	64.0	62.0	63.0	78.3	79.5	80.3	66.0	78.3	80.3	80.3
Water content, %	9.0	15.0	14.5	15.0	15.0	15.0	15.0	15.0	15.0	12.5	77.0	82.0	82.0	82.0	16.0	82.0	82.0	82.0
N content, kg N/t dry matter	33.6	18.4	19.2	17.76	15.36	16.8	17.28	18.4	16.32	15.2	16	33.12	35.52	37.92	17.92	33.12	37.92	37.92
N content, kg N/t crop	30.6	15.6	16.4	15.1	13.1	14.3	14.7	15.6	13.9	13.3	3.7	6.0	6.4	6.8	15.1	6.0	6.8	6.8
Digestible N content, kg N/t crop	25.7	10.5	11.2	10.0	8.1	9.3	9.5	10.5	8.9	8.2	2.3	4.7	5.1	5.5	9.9	4.7	5.5	5.5

Weighted average values of all Danish soils

% of DK	Yield norm, hkg/ha, FU/ha	Yield norm, t/ha	N content, kg N/ha	N norm, basic, kg N/ha	N norm, recalculated, kg N/ha	NUJ/e = N uptake efficiency	NUED/eD = Digestible N uptake efficiency	Note 9
30	65	65	58	53	52	48	44	49
3.0	6.5	6.5	5.8	5.3	5.2	4.8	4.4	4.9
92.4	101.0	106.0	87.6	69.2	74.3	70.3	68.6	67.8
171	157	198	147	117	141	118	118	93
130	157	198	147	117	141	118	118	93
0.71	0.64	0.54	0.60	0.59	0.53	0.60	0.58	0.73
0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.39	0.47

Weighted average values of 2/3 best Danish soils, all JB except JB 1+3

% of DK	Yield norm, hkg/ha, FU/ha	Yield norm, t/ha	N content, kg N/ha	N norm, basic, kg N/ha	N norm, recalculated, kg N/ha	NUJ/e = N uptake efficiency	NUED/eD = Digestible N uptake efficiency	Note 10
33	72	72	62	59	57	52	47	52
3.3	7.2	7.2	6.2	5.9	5.7	5.2	4.7	5.2
102.3	112.0	117.5	93.7	76.8	81.4	76.1	74.1	72.1
175	160	203	146	118	141	118	118	92
133	160	203	146	118	141	118	118	92
0.77	0.70	0.58	0.64	0.65	0.58	0.64	0.63	0.78
0.64	0.47	0.39	0.42	0.40	0.38	0.42	0.42	0.50

