





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
Weighted average values of all Danish soils % of DK									Note 9
Yield norm, hkg/ha, FU/ha	71.2	71.2	64.3	58.7	57.5	52.9	48.8	48.9	Note 10
Yield norm, t/ha	7.1	7.1	6.4	5.9	5.7	5.3	4.9	4.9	Note 11
N content, kg N/ha	111.4	116.9	97.1	76.6	82.1	77.7	76.4	67.8	Note 12
N norm, basic, kg N/ha	157	198	147	117	141	118	118	93	Note 13
N norm, recalculated, kg N/ha	157	198	147	117	141	118	118	93	Note 14
NUE/e = N uptake efficiency	0.71	0.59	0.66	0.66	0.58	0.66	0.65	0.73	Note 15
NUED/eD = Digestible N uptake efficiency	0.47	0.40	0.44	0.41	0.38	0.43	0.43	0.47	Note 16
									Note 17
Weighted average values of 2/3 best Danish soils, all JB except JB 1+3 % of DK									Note 18
Yield norm, hkg/ha, FU/ha	78.9	78.9	68.9	65.2	63.1	57.3	52.8	52.0	Note 19
Yield norm, t/ha	7.9	7.9	6.9	6.5	6.3	5.7	5.3	5.2	Note 20
N content, kg N/ha	123.5	129.6	104.1	85.2	90.1	84.2	82.6	72.1	Note 21
N norm, basic, kg N/ha	160	203	146	118	141	118	118	92	Note 22
N norm, recalculated, kg N/ha	160	203	146	118	141	118	118	92	Note 23
NUE/e = N uptake efficiency	0.77	0.64	0.71	0.72	0.64	0.71	0.70	0.78	Note 24
NUED/eD = Digestible N uptake efficiency	0.52	0.43	0.47	0.45	0.42	0.46	0.47	0.50	Note 25
									Note 26
Increase in <NUE/e>, all Danish soils	1.10	1.10	1.11	1.11	1.10	1.11	1.11	1.00	Note 27
Increase in <NUE/e>, best 2/3 Danish soils	1.10	1.10	1.11	1.11	1.11	1.11	1.12	1.00	Note 28
Additional precrop value, all Danish soils	16.11	20.26	15.98	12.55	14.76	12.48	13.43	0.00	Note 29
Additional precrop value, best 2/3 Danish soils	16.42	20.82	16.23	12.9	15.08	12.65	13.59	0.00	Note 30
Number of ha currently cultivated in DK	682	0	161	30	42	527	10		Note 31
Number of ha currently cultivated in DK	682	0	161	30	42	527	10		Note 32
Additional precrop value, weighed average, all Danish soils								14.64	Note 33
Additional precrop value, weighed average, best 2/3 Danish soils								14.89	Note 34



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	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	17.76	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	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

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
100	30	65	65	58	53	52	48	44
	3.0	6.5	6.5	5.8	5.3	5.2	4.8	4.4
	92.4	101.0	106.0	87.6	69.2	74.3	70.3	68.6
	171	157	198	147	117	141	118	118
	130	157	198	147	117	141	118	118
	0.71	0.64	0.54	0.60	0.59	0.53	0.60	0.58
	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65	65	65	58	53	52	48	44
	65	65	65	58	53	52	48	44
	92.4	101.0	106.0	87.6	69.2	74.3	70.3	68.6
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	0.71	0.64	0.54	0.60	0.59	0.53	0.60	0.58
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	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65	65	65	58	53	52	48	44
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	0.71	0.64	0.54	0.60	0.59	0.53	0.60	0.58
	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65	65	65	58	53	52	48	44
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	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65	65	65	58	53	52	48	44
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	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65	65	65	58	53	52	48	44
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	171	157	198	147	117	141	118	118
	130	157	198	147	117	141	118	118
	0.71	0.64	0.54	0.60	0.59	0.53	0.60	0.58
	0.60	0.43	0.36	0.39	0.37	0.34	0.39	0.47
	65							

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	16	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	80.3	66.0	78.3	80.3
Water content, %	9.0	15.0	14.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.5	77.0	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	17.8	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	37.9
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
Straw:																		
Protein content, %, dry matter	5.0	3.3	3.3	4.0	3.8	3.5	4.0	3.3	3.7	5.0	0	0	0	0	0	0	0	0
Digestibility of fodder protein, %	33.0	2.0	2.0	18.0	14.0	7.0	18.0	2.0	12.0	33.0	0	0	0	0	0	0	0	0
Water content, %	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	0	0	0	0	0	0	0	0
N content, kg N/t dry matter	8.0	5.3	5.3	6.4	6.1	5.6	6.4	5.3	5.9	8.0	0	0	0	0	0	0	0	0
N content, kg N/t crop	6.8	4.5	4.5	5.4	5.2	4.8	5.4	4.5	5.0	6.8	0	0	0	0	0	0	0	0
Digestible N content, kg N/t crop	2.2	0.1	0.1	1.0	0.7	0.3	1.0	0.1	0.6	2.2	0	0	0	0	0	0	0	0

Addition from straw:

Weighted average values of all Danish soils % of DK	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Yield, t/ha	3.14	3.87	3.87	3.11	3.78	3.94	2.50	1.82	2.37	0.00									
N content, kg N/ha	21.4	17.4	17.4	16.9	19.5	18.8	13.6	8.2	11.9	0.0									
N norm, basic, kg N/ha	171	157	198	147	117	141	118	118	93	140									
N norm, recalculated, kg N/ha	144	157	198	147	117	141	118	118	93	140									
NUE/e = addition from	0.15	0.11	0.09	0.12	0.17	0.13	0.12	0.07	0.13	0.00	0	0	0	0	0	0	0	0	0
addition from	0.12	0.07	0.06	0.08	0.10	0.09	0.08	0.05	0.08	0.00	0	0	0	0	0	0	0	0	0
crop and straw	0.79	0.75	0.62	0.71	0.76	0.66	0.71	0.65	0.85	0.62									
NUE/e = crop and straw	0.66	0.50	0.42	0.47	0.47	0.43	0.46	0.44	0.55	0.38									
crop and straw																			

Addition from straw:

Weighted average values of 2/3 best Danish soils, all JB except JB 1+3 % of DK	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
NUE/e = crop and straw	0.84	0.81	0.67	0.76	0.82	0.71	0.76	0.70	0.91	0.66									
crop and straw	0.70	0.54	0.45	0.50	0.51	0.46	0.49	0.47	0.58	0.41									

Amounts from crop residues and roots:

N content crop residues, kg N/ha	4.4	17.0	17.0	11.3	17.0	17.0	10.4	13.7	10.4	29.9	6.3	13.1	26.2	26.2	20.0	20.0	26.2	26.2	26.2
<NUE/e> addition from crop residues	0.03	0.11	0.09	0.08	0.15	0.12	0.09	0.12	0.11	0.21	0.04	0.04	0.13	1.28	0.15	0.15	1.28	1.28	1.28
N content roots, kg N/ha	81.0	65.0	65.0	65.0	65.0	65.0	33.0	33.0	33.0	33.0	33.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
<NUE/e> addition from roots	0.56	0.41	0.33	0.44	0.56	0.46	0.28	0.28	0.35	0.24	0.21	0.19	0.3	2.88	0.45	0.45	2.88	2.88	2.88
<NUE/e> total basic	1.38	1.27	1.04	1.23	1.46	1.24	1.08	1.05	1.32	1.07	1.29	1.07	1.76	15.84	1.04	1.41	15.84	15.84	15.84
<NUE/e> total before cereal	1.45	1.27	1.04	1.23	1.46	1.24	1.08	1.05	1.32	1.07	1.40	1.11	1.87	45.05	1.04	1.41	45.05	45.05	45.05
Amounts of N fixation																			
<NUE/e> amount of N fixation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	11.96	0.00	0.00	11.96	11.96	11.96