Teagasc Advisory Newsletter

BEEF Fertiliser Advice Card

Fertiliser nitrogen (N) advice for suckler calf to beef grazing

Suggested timing of N applications for swards grazed by suckler calf to beef production systems (steers finished at 24 months of age and heifers finished at 20 months of age) at various stocking rates.

Stocking rate (kg organic N/ha)	N rates kg/ha (units/ac) for approximate application dates								Total N rate kg/ha (units/ac)
	January/ February	March	April	May	June	July	August	September	
≤80		23 (18)					12 (10)		**35 (28)**
99		23 (18)	15 (12)				15 (12)		**53 (42)**
118		25 (20)	23 (18)		10 (8)		17 (14)		**75 (60)**
138		34 (27)	25 (20)	10 (8)	15 (12)		19 (15)		**103 (82)**
158		42 (34)	30 (24)	20 (16)	20 (16)		20 (16)		**132 (106)**
176	13 (10)	45 (36)	32 (26)	20 (16)	26 (21)		26 (21)		**162 (130)**
196	15 (12)	49 (39)	36 (29)	25 (20)	22 (18)	24 (19)		22 (18)	**193 (155)**
215	15 (12)	53 (42)	42 (34)	25 (20)	26 (21)	28 (22)		26 (21)	**215 (172)**
235	20 (16)	57 (46)	46 (37)	30 (24)	28 (22)	32 (26)		28 (22)	**241 (193)**

Phosphorus (P) and potassium (K) rates for grazing *– apply 50% of P and K in March/April and apply remaining 50% in May/June/July. Consult fertiliser plan for rates of P and K based on farm details.*

Fertiliser requirements for grass silage

First cut grass silage nitrogen (N), phosphorus (P) and potassium (K) requirements for 5t/ha DM and suggested fertiliser programmes.

Soil index P and K	N kg/ha (units/ac)	P kg/ha (units/ac)	K kg/ha (units/ac)	Fertiliser options at silage closing time[1,2,3]	
				No slurry	Cattle slurry 3,000 gallons/ac
1	125 (100)	40 (32)	175 (140)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
2	125 (100)	30 (24)	155 (120)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
3	125 (100)	20 (16)	125 (100)	4 bags/ac 16-4-18 1.3 bags/ac CAN	3 bags/ac CAN
4	125 (100)	0	0	3.7 bags/ac CAN	3 bags/ac CAN

1 *Index 3 soils = replacement of silage P and K offtake. For index 1 and 2 soils, apply additional (above Index 3 rates) P and K after first cut to build soil P and K levels. For example, apply as slurry or fertilisers such as 24-2.5-10/0-7-30, 50% K, etc.*

2 *Assumes 1,000 gallons/ac cattle slurry contains N-P-K = 6-5-32. Urea or protected urea can be used as an alternative N source to CAN.*

3 *Caution: K application rates >90kg/ha at time of closing for silage may increase risk of grass tetany.*

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SHEEP Fertiliser Advice Card

Fertiliser nitrogen (N) advice for sheep grazing

Suggested timing of N applications for swards grazed by sheep and lamb production systems (mid-March lambing) at various stocking rates with low and normal clover content.

Stocking rate (kg organic N/ha)	N rates kg/ha (units/ac) for approximate application dates: January/ February	March	April	May	June	July	August	September	Total N rate kg/ha (units/ac)
≤80		13 (10)	13 (10)				13 (10)		**39 (31)**
99		23 (18)	19 (15)				18 (14)		**60 (48)**
118		25 (20)	20 (16)	15 (12)			21 (17)		**81 (65)**
138	13 (10)	28 (23)	23 (19)	15 (12)			23 (18)		**102 (82)**
158	13 (10)	33 (26)	23 (19)	13 (10)	15 (12)		26 (21)		**123 (98)**
176	13 (10)	41 (33)	25 (20)	13 (10)	22 (18)		30 (24)		**144 (115)**

N for grass silage/hay not included in above N advice.

Phosphorus (P) and potassium (K) rates for grazing *– apply 50% of P and K in March/April and apply remaining 50% in May/June/July. Consult fertiliser plan for rates of P and K based on farm details.*

Fertiliser requirements for grass silage

First cut grass silage nitrogen (N), phosphorus (P) and potassium (K) requirements for 5t/ha DM and suggested fertiliser programmes.

Soil index P and K	N kg/ha (units/ac)	P kg/ha (units/ac)	K kg/ha (units/ac)	Fertiliser options at silage closing time[1,2,3]	
				No slurry	Cattle slurry 3,000 gallons/ac
1	125 (100)	40 (32)	175 (140)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
2	125 (100)	30 (24)	155 (120)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
3	125 (100)	20 (16)	125 (100)	4 bags/ac 16-4-18 1.3 bags/ac CAN	3 bags/ac CAN
4	125 (100)	0	0	3.7 bags/ac CAN	3 bags/ac CAN

1 *Index 3 soils = replacement of silage P and K offtake. For index 1 and 2 soils, apply additional (above Index 3 rates) P and K after first cut to build soil P and K levels. For example, apply as slurry or fertilisers such as 24-2.5-10/0-7-30, 50% K, etc.*

2 *Assumes 1,000 gallons/ac cattle slurry contains N-P-K = 6-5-32. Urea or protected urea can be used as an alternative N source to CAN.*

3 *Caution: K application rates >90kg/ha at time of closing for silage may increase risk of grass tetany.*

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DAIRY Fertiliser Advice Card

Fertiliser nitrogen (N) advice for dairy grazing

Suggested timing of N applications for swards grazed by dairy cows at various stocking rates.

Stocking rate (kg organic N/ha)	N rates kg/ha (units/ac) for approximate application dates								Total N rate kg/ha (units/ac)
	January/ February	March	April	May	June	July	August	September	
≤85			25 (20)		15 (12)				**40 (32)**
106		15 (12)	28 (22)	15 (12)	15 (12)				**73 (58)**
128		28 (23)	35 (28)	25 (20)	23 (18)				**111 (89)**
149		29 (23)	44 (35)	26 (21)	26 (21)		17 (14)		**142 (114)**
170		34 (27)	53 (42)	42 (34)	42 (34)		31 (25)		**202 (162)**
180	31 (25)	32 (26)	48 (38)	38 (30)	38 (30)		28 (22)		**215 (171)**
191	31 (25)	41 (33)	54 (43)	37 (30)	37 (30)		37 (30)		**237 (191)**
200	31 (25)	53 (42)	53 (42)	37 (30)	37 (30)	37 (30)		27 (22)	**275 (221)**
210	31 (25)	54 (42)	54 (42)	57 (46)	37 (30)	37 (30)		37 (30)	**307 (245)**
≥210	31 (25)	50 (40)	55 (44)	38 (30)	38 (30)	38 (31)		28 (22)	**278 (222)**

Phosphorus (P) and potassium (K) rates for grazing *– apply 50% of P and K in March/April and apply remaining 50% in May/June/July. Consult fertiliser plan for rates of P and K based on farm details.*

Fertiliser requirements for grass silage

First cut grass silage nitrogen (N), phosphorus (P) and potassium (K) requirements for 5t/ha DM and suggested fertiliser programmes.

Soil index P and K	N kg/ha (units/ac)	P kg/ha (units/ac)	K kg/ha (units/ac)	Fertiliser options at silage closing time[1,2,3]	
				No slurry	Cattle slurry 3,000 gallons/ac
1	125 (100)	40 (32)	175 (140)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
2	125 (100)	30 (24)	155 (120)	2.5 bags/ac 0-7-30 3.7 bags/ac CAN	3 bags/ac CAN
3	125 (100)	20 (16)	125 (100)	4 bags/ac 16-4-18 1.3 bags/ac CAN	3 bags/ac CAN
4	125 (100)	0	0	3.7 bags/ac CAN	3 bags/ac CAN

1 *Index 3 soils = replacement of silage P and K offtake. For index 1 and 2 soils, apply additional (above Index 3 rates) P and K after first cut to build soil P and K levels. For example, apply as slurry or fertilisers such as 24-2.5-10/0-7-30, 50% K, etc.*

2 *Assumes 1,000 gallons/ac cattle slurry contains N-P-K = 6-5-32. Urea or protected urea can be used as an alternative N source to CAN.*

3 *Caution: K application rates >90kg/ha at time of closing for silage may increase risk of grass tetany.*

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