

DCR Guidance for Crop Nutrient Recommendations for Hay/Pasture Fields

DCR Guidance NMP-1
January 2001

Description:

Nutrient recommendations for fields that have a hay/pasture rotation. The hay crop is mechanically harvested at least once which should be in spring and the harvested crop must be removed from the field and utilized for a suitable purpose, and followed by pasturing of livestock at the recommended stocking rate for the predominant soil productivity group in the field.

Procedure:

The following tables are to be used to determine the annual agronomic rate for fields that meet the above criteria of hay/pasture.

Hay/Pasture, Soil Productivity Groups I, II

Soil Test Level	Fertilizer Recommendations, Lb/A		
	N	P ₂ O ₅	K ₂ O
L-	120	120	200
L	120	110	180
L+	120	100	160
M-	120	90	140
M	120	80	120
M+	120	70	100
H-	120	60	80
H	120	50	60
H+	120	40	40
VH	120	0	0

Hay/Pasture, Soil Productivity Groups III, IV

Soil Test Level	Fertilizer Recommendations, Lb/A		
	N	P ₂ O ₅	K ₂ O
L-	100	90	120
L	100	80	110
L+	100	70	100
M-	100	60	90
M	100	50	80
M+	100	40	70
H-	100	30	60
H	100	20	50
H+	100	0	40
VH	100	0	0

If the recommendations in the nutrient management plan are being written using phosphorus crop removal rates. The phosphorus application rate shall not exceed the greater of crop nutrient needs or the crop nutrient removal. Annual nitrogen crop need shall not exceed the recommended rate for that soil productivity group.

Hay/ Pasture P₂O₅ Removal	
Soil Productivity Group	P ₂ O ₅
I	55
II	45
III	30
IV	30

The following examples are for nutrient management plans developed using phosphorus removal or needs rates.

Example 1

Hay/pasture field with a soil productivity group II.

Soil test M for P₂O₅ and K₂O.

The annual crop nutrient recommendations are as follows:

	<u>Lb/A</u>
Nitrogen	120
P ₂ O ₅	80
K ₂ O	120

Example 2

Hay/pasture field with a soil productivity group III

Soil test VH for P₂O₅ and M- for K₂O

The annual crop nutrient recommendations are as follows:

	<u>Lb/A</u>
Nitrogen	100
P ₂ O ₅	0
K ₂ O	90

*This guidance document succeeds all other DCR guidance material pertaining to the description of NMP-1.