

FERTILIZER RECOMMENDATIONS - N, P, K - BY CROP

Crop: Corn (Grain), No till

Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	150-175	80-120	80-120
M		40- 80	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Crop: Corn (Grain), ConventionalOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	150-175	80-120	80-120
M		40- 80	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Crop: Corn (Silage), No tillOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	150-175	100-140	150-200
M		60-100	100-150
H		10- 60	10-100
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	125-150	80-120	120-160
M		50- 80	80-120
H		10- 50	10- 80
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	100-125	60-100	80-120
M		40- 60	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	75-100	60-100	80-120
M		40- 60	40- 80
H		10- 40	10- 40
VH		0	0

Crop: Corn (Silage), ConventionalOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	150-175	100-140	150-200
M		60-100	100-150
H		10- 60	10-100
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	80-120	120-160
M		50-80	80-120
H		10- 50	10-80
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	60-100	80-120
M		40- 60	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	60-100	80-120
M		40- 60	40- 80
H		10- 40	10- 40
VH		0	0

Crop: Grain SorghumOptimum pH: 6.5

Soil Productivity Group 1

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P2O5	K2O
L	150-175	80-120	80-120
M		40- 80	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P2O5	K2O
L	125-150	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 3

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P2O5	K2O
L	100-125	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 4

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P2O5	K2O
L	75-100	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Crop: WheatOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	60- 80	60- 80
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	50- 70	50- 70
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	40- 60	40- 60
M		20- 40	20- 40
H		10- 20	10- 20
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	30- 50	30- 50
M		20- 30	20- 30
H		10- 20	10- 20
VH		0	0

Crop: Barley

Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	60- 80	60- 80
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	50- 70	50- 70
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	40- 60	40- 60
M		20- 40	20- 40
H		10- 20	10- 20
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	30- 50	30- 50
M		20- 30	20- 30
H		10- 20	10- 20
VH		0	0

Crop: Oats

Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	60- 80	60- 80
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	50- 70	50- 70
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	40- 60	40- 60
M		20- 40	20- 40
H		10- 20	10- 20
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	30- 50	30- 50
M		20- 30	20- 30
H		10- 20	10- 20
VH		0	0

Crop: Rye (Grain or Silage Only)

Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	50- 80	60- 80
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	50- 70	50- 70
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	40- 60	40- 60
M		20- 40	20- 40
H		10- 20	10- 20
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	30- 50	30- 50
M		20- 30	20- 30
H		10- 20	10- 20
VH		0	0

Crop: SoybeansOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	80-120	80-120
M		40- 80	40- 80
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 80	50- 80
M		30- 50	30- 50
H		10- 30	10- 30
VH		0	0

Crop: Small Grain - Soybean Double Crop RotationOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	140-200	140-200
M		80-140	80-140
H		20- 80	20- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	110-170	110-170
M		70-110	70-110
H		20- 70	20- 70
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	90-140	90-140
M		50- 90	50- 90
H		20- 50	20- 50
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	90-140	90-140
M		50- 90	50- 90
H		20- 50	20- 50
VH		0	0

Crop: Small Grain - Grain Sorghum Double Crop RotationOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80	140-200	140-200
M		80-140	80-140
H		20- 80	20- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	70	110-170	110-170
M		70-110	70-110
H		20- 70	20- 70
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60	90-140	90-140
M		50- 90	50- 90
H		20- 50	20- 50
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50	90-140	90-140
M		50- 90	50- 90
H		20- 50	20- 50
VH		0	0

Code No: 13

Page 43

Crop: Peanuts

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	100-200	60-120
M		50-100	10- 60
H		10- 50	0
VH		0	0

CODE NO: 14

Crop: Cotton

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50- 70	120-160	80-160
M		60-120	10- 80
H		10- 60	0
VH		0	0

Code No: 15

Page 44

Crop: Tobacco, Flue-Cured

Optimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 70	290-330	150-175
M		100-120	100-150
H		60-100	100
VH		60	100

Code No: 16

Crop: Tobacco, Dark-Fired

Optimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	135	290-330	150-175
M		100-120	100-150
H		60-100	100
VH		60	100

Code No: 17

Page 45

Crop: Tobacco, Sun-Cured

Optimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	110	290-330	150-175
M		100-120	100-150
H		60-100	100
VH		60	100

Code No: 18

Crop: Tobacco, Burley

Optimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	175	290-330	250-350
M		100-120	200-250
H		60-100	100-200
VH		60	100

Crop: Alfalfa, Alfalfa-Grass - EstablishmentOptimum pH: 6.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	140-170	140-170
M		110-140	110-140
H		30-110	30-110
VH		0	0

Code No: 31Crop: Red Clover-Grass - EstablishmentOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	30	120-150	90-120
M		90-120	60- 90
H		30- 90	30- 60
VH		0	0

Crop: Tall Grass-Ladino Clover - EstablishmentOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	30	120-150	90-120
M		90-120	60- 90
H		30- 90	30- 60
VH		0	0

Code No: 33Crop: Tall Grass (Orchardgrass, Fescue, etc.) - EstablishmentOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0- 50	120-150	90-120
M		90-120	60- 90
H		30- 90	30- 60
VH		0	0

Crop: Bermudagrass - EstablishmentOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	30- 40	90-120	90-120
M		60- 90	60- 90
H		30- 60	30- 60
VH		0	0

Code No: 35Crop: Sorghum-Sudan, Millet, SudanOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-100	80-100
M		60- 80	60- 80
H		10- 60	10- 60
VH		0	0

Crop: Small Grains with Winter Annual Legume for Hay or
Grazing

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	15- 20	60- 80	60- 80
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Crop: Alfalfa, Alfalfa-Grass - Hay

Optimum pH: 6-8

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	80-120	225-275
M		60- 80	175-225
H		30- 60	30-175
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	80-105	175-225
M		50- 80	150-175
H		30- 50	30-150
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	60- 90	160-185
M		40- 60	125-160
H		30- 40	30-125
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 75	125-150
M		30- 50	100-125
H		30	30-100
VH		0	0

Crop: Red Clover-Grass HayOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	80-110	120-160
M		40- 80	80-120
H		30- 40	30- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	70- 90	80-120
M		40- 70	50- 80
H		30- 40	30- 50
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 70	50- 80
M		30- 50	30- 50
H		30	30
VH		0	0

Crop: Tall Grass PastureOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	70- 90	90-120
M		40- 70	60- 90
H		30- 40	30- 60
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	40- 70 <i>160</i>	60- 90
M		30- 40	30- 60
H		30	30 <i>60</i>
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Crop: Grass-Clover Pasture (0-25% Legume)Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	70- 90	90-120
M		40- 70	60- 90
H		30- 40	30- 60
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	40- 70	60- 90
M		30- 40	30- 60
H		30	30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	40- 60	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Crop: Grass-Clover Pasture (25%+ Legume)Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	70- 90	90-120
M		40- 70	60- 90
H		30- 40	30- 60
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	40- 70	60- 90
M		30- 40	30- 60
H		30	30
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	30- 40	30- 60
M		30	30
H		0	0
VH		0	0

Crop: Native Pasture (0-25% Legume)Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0- 60	120-200	120-200
M	50	80-120	80-120
H		30- 80	30- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0- 60	100-140	100-140
M		60-100	60-100
H		30- 60	30- 60
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0- 60	60-100	60-100
M		40- 60	40- 60
H		30- 40	30- 40
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0- 60	40- 60	40- 60
M		30- 40	30- 40
H		30	30
VH		0	0

Crop: Native Pasture (25% + Legume)Optimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	120-200	120-200
M		80-120	80-120
H		30- 80	30- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	100-140	100-140
M		60-100	60-100
H		30- 60	30- 60
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	60-100	60-100
M		40- 60	40- 60
H		30- 40	30- 40
VH		0	0

Soil Productivity Group 4

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	0	40- 60	40- 60
M		30- 40	30- 40
H		30	30
VH		0	0

Crop: Tall Grass - HayOptimum pH: 6.5

Soil Productivity Group 1

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	160-200	80-110	120-160
M		40- 80	80-120
H		30- 40	30- 80
VH		0	0

Soil Productivity Group 2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	120-160	70- 90	80-120
M		40- 70	50- 80
H		30- 40	30- 50
VH		0	0

Soil Productivity Group 3

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80-120	50- 70	50- 80
M		30- 50	30- 50
H		30	30
VH		0	0

Crop: Stockpiled Tall FescueOptimum pH: 6.5

Soil Productivity Group 1

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P205	K20
L	40- 90	80-110	120-160
M		40- 80	80-120
H		30- 40	30- 80
VH		0	0

Soil Productivity Group 2

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P205	K20
L	40- 90	70- 90	80-120
M		40- 70	50- 80
H		30- 40	30- 50
VH		0	0

Soil Productivity Group 3

Fertilizer Recommendations (lb/A)			
Soil Test Level	N	P205	K20
L	40- 90	50- 70	50- 80
M		30- 50	30- 50
H		30	30
VH		0	0

Crop: Bernudagrass - PastureOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	175-225	60- 80	120-160
M		40- 60	80-120
H		30- 40	30- 80
VH		0	0

Code No: 47Crop: Bernudagrass - HayOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	265-340	90-120	180-240
M		60- 90	120-180
H		30- 60	30-120
VH		0	0

Code No: 50

Page 60

Crop: Asparagus - Nonhybrid Strains

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	50	150	200
M		100	150
H		50	100
VH		25	50

Code No: 51

Crop: Asparagus - New Hybrids

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	75	200	300
M		150	225
H		100	150
VH		50	75

Code No: 52

Page 61

Crop: Beans, Lima

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	120	160
M		80	120
H		40	80
VH		20	40

Code No: 53

Crop: Beans, Snap

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	40- 80	80	80
M		60	60
H		40	40
VH		20	20

Code No: 54

Page 62

Crop: Broccoli, Cauliflower

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	150-200	200	200
M		100	100
H		50	50
VH		25	25

Code No: 55

Crop: Cabbage

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	200	200
M		100	100
H		50	50
VH		25	25

Crop: Brussels Sprouts, CollardsOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-125	150	150
M		100	100
H		50	50
VH		25	25

Code No: 57Crop: CucumbersOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	150	200
M		100	150
H		50	100
VH		25	50

Code No: 58

Page 64

Crop: Muskmelons

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	85-100	150	200
M		100	150
H		50	100
VH		25	50

Code No: 59

Crop: Onions, Bulbs

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	200	200
M		100	100
H		50	50
VH		25	25

Crop: Onions, ScallionsOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	150-200	200	200
M		100	100
H		50	50
VH		25	25

Code No: 61Crop: PeasOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80-120	120	120
M		80	80
H		40	40
VH		20	20

Code No: 62

Page 66

Crop: Peppers

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-130	200	200
M		150	150
H		100	100
VH		50	50

Code No: 63

Crop: Potatoes, White

Optimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	200	300
M		150	200
H		100	100
VH		50	50

Crop: Potatoes, SweetOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	50- 75	200	300
M		100	200
H		50	100
VH		25	50

Code No: 65Crop: PumpkinsOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	50- 75	150	200
M		100	150
H		50	100
VH		25	50

Code No: 66

Page 68

Crop: Spinach

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-125	200	200
M		150	150
H		100	100
VH		50	50

Code No: 67

Crop: Squash

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	75-100	150	200
M		100	150
H		50	100
VH		25	50

Crop: StrawberriesOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-130	150	150
M		100	100
H		50	50
VH		25	25

Code No: 69Crop: Sweet Corn - Fresh MarketOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	160	160
M		120	120
H		80	80
VH		40	40

Code No: 70

Page 70

Crop: Sweet Corn - Processing

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	110-130	120	120
M		80	80
H		40	40
VH		20	20

Code No: 71

Crop: Tomatoes - Fresh Market

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P205	K20
L	50- 80	200	300
M		150	200
H		100	100
VH		50	50

Crop: Tomatoes - Processing, Multiple Harvests

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	100-130	250	300
M		150	200
H		100	100
VH		50	50

Code No: 73

Crop: Tomatoes - Processing, Machine Harvest

Optimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	25- 50	200	250
M		150	150
H		100	100
VH		50	50

Crop: WatermelonsOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	80-100	150	200
M		100	150
H		50	100
VH		25	50

CODE NO: 80CROP: Putting Greens, BentgrassOPTIMUM PH: 6.2

FERTILIZER RECOMMENDATIONS*

SOIL TEST Level	P205		K20	
	lbs/1000 sq ft	Time To Apply	lbs/1000 sq ft	Time To Apply
L	3	Aug To Sept	2 2	Aug To Sept Mar To Apr
M	2 - 2.5	Aug To Sept	1.5 - 2 1.5	Aug To Sept Mar To Sept
H	1 - 1.5	Aug To Sept	1 - 1.5 1	Aug To Sept Mar To Apr
VH	0	Aug To Sept	0 0	Aug To Sept Mar To Apr

* FOR N RECOMMENDATIONS, SEE NOTE 15.

CODE NO: 81CROP: Putting Greens, BernudagrassOPTIMUM PH: 6.2

FERTILIZER RECOMMENDATIONS*

Soil Test Level	P205		K20	
	lbs/1000 sq ft	Time To Apply	lbs/1000 sq ft	Time To Apply
L	3	Aug To Oct	2 2	Aug To Oct Mar To Apr
M	2 - 2.5	Aug To Oct	1.5 - 2 1.5	Aug To Oct Mar To Sept
H	1 - 1.5	Aug To Oct	1 - 1.5 1	Aug To Oct Mar To Apr
VH	0	Aug To Oct	0 0	Aug To Oct Mar To Apr

* FOR N RECOMMENDATIONS, SEE NOTE 15.

CODE NO: 82CROP: Tees, BentgrassOPTIMUM PH: 6.5

FERTILIZER RECOMMENDATIONS*

Soil Test Level	P205		K20	
	lbs/1000 sq ft	Time To Apply	lbs/1000 sq ft	Time To Apply
L	3	Aug To Sept	2 2	Aug To Sept Mar To Apr
M	2 - 2.5	Aug To Sept	1.5 - 2 1.5	Aug To Sept Mar To Sept
H	1 - 1.5	Aug To Sept	1 - 1.5 1	Aug To Sept Mar To Apr
VH	0	Aug To Sept	0 0	Aug To Sept Mar To Apr

* FOR N RECOMMENDATIONS, SEE NOTE 16.

CODE NO: 83CROP: Tees, BermudagrassOPTIMUM PH: 6.5

FERTILIZER RECOMMENDATIONS*

Soil Test Level	P205		K20	
	lbs/1000 sq ft	Time To Apply	lbs/1000 sq ft	Time To Apply
L	3	Aug To Oct	2 2	Aug To Oct Mar To Apr
M	2 - 2.5	Aug To Oct	1.5 - 2 1.5	Aug To Oct Mar To Sept
H	1 - 1.5	Aug To Oct	1 - 1.5 1	Aug To Oct Mar To Apr
VH	0	Aug To Oct	0 0	Aug To Oct Mar To Apr

* FOR N RECOMMENDATIONS, SEE NOTE 16.

Crop: Fairways - Ky Bluegrass, FescueOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Code No: 85Crop: Fairways - BermudagrassOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Crop: Athletic Fields - Ky Bluegrass, RescueOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Code No: 87Crop: Athletic Fields - BermudagrassOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Crop: Industrial Lawns - Ky Bluegrass, FescueOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Code No: 89Crop: Industrial Lawns - BermudagrassOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	80-120	80-120
M		60- 80	60- 80
H		40- 60	40- 60
VH		0	0

Crop: Sod Production - Ky Bluegrass, FescueOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	200-300	150-200
M		100-200	100-150
H		100	100
VH		0	0

Code No: 91Crop: Sod Production - Bermudagrass, ZoysiagrassOptimum pH: 6.5

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	See Note 14	200-300	150-200
M		100-200	100-150
H		100	100
VH		0	0

Code No: 95

Page 79

Crop: Apples

Optimum pH: 6.5

Fertilizer Recommendations: See Note 10.

Code No: 96

Crop: Peaches

Optimum pH: 6.5

Fertilizer Recommendations: See Note 11.

Crop: Christmas TreesOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Code No: 101Crop: Fir, Spruce EstablishmentOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	30- 60	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Crop: Fir, Spruce MaintenanceOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50-100	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Code No: 103Crop: Fir, Spruce NurseryOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Crop: Fir, Spruce Seed OrchardOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Code No: 105Crop: Hardwood EstablishmentOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 70	40- 80
M		10- 50	10- 40
H		0	0
VH		0	0

Crop: Hardwood MaintenanceOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50-100	50- 70	40- 80
M		10- 50	10- 40
H		0	0
VH		0	0

Code No: 107Crop: Hardwood Nursery, Black WalnutOptimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Crop: Hardwood Seed OrchardOptimum pH: 5.8

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Code No: 109Crop: Pine EstablishmentOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	0	50- 70	40- 80
M		10- 50	10- 40
H		0	0
VH		0	0

Code No: 110Crop: Pine MaintenanceOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	50-100	50- 70	40- 80
M		10- 50	10- 40
H		0	0
VH		0	0

Code No: 111Crop: Pine NurseryOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

Crop: Pine Seed OrchardOptimum pH: 5.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	60- 80	80-110	40- 80
M		40- 80	10- 40
H		0	0
VH		0	0

CODE NO: 201,203

CROP: New Lawn Establishment - Kentucky Bluegrass, Fescue, Bermudagrass, Zoysiagrass

OPTIMUM pH: 6.5

Soil Test Level

		Comment	Fertilizer Recommendations
P205	K20	No.	
L-M	L-H	*201.	FERTILIZER RECOMMENDATIONS: Apply 50 lbs of 5-10-10 or 25 lbs of 10-20-20 per 1000 sq. ft. Work fertilizer (and lime, if needed) into the soil to a depth of 4 to 6 inches prior to seeding. After the turf has been established (6 to 8 weeks) follow one of the three maintenance fertilization programs suggested in the enclosed Note on lawn care.
L-M	VH	*202.	FERTILIZER RECOMMENDATIONS: Apply 10 lbs of 0-46-0 per 1000 sq. ft. to correct a shortage of phosphate in the soil. Also apply 25 lbs of 25-4-7 (or equivalent), or 7 lbs of 33-0-0 (ammonium nitrate), or 15 lbs of 16-0-0 (nitrate of soda) per 1000 sq. ft. to supply nitrogen. Work fertilizer (and lime, if needed) into the soil to a depth of 4 to 6 inches prior to seeding. After the turf has been established (6 to 8 weeks), follow one of the three maintenance fertilization programs suggested in the enclosed Note on lawn care.
H-VH	L-M	*203.	FERTILIZER RECOMMENDATIONS: Apply 5 lbs of 0-0-50 or 4 lbs of 0-0-60 per 1000 sq. ft. to correct a shortage of potash in the soil. Also apply 10 lbs of 25-4-7 (or equivalent), or 7 lbs of 33-0-0 (ammonium nitrate), or 15 lbs of 16-0-0 (nitrate of soda) per 1000 sq. ft. to supply nitrogen. Work fertilizer (and lime, if needed) into the soil to a depth of 4 to 6 inches prior to seeding. After the turf has been established (6 to 8 weeks), follow one of the three maintenance fertilization programs suggested in the enclosed Note on lawn care.
H-VH	H-VH	*204.	FERTILIZER RECOMMENDATIONS: Apply 10 lbs of 25-4-7 (or equivalent), or 7 lbs of 33-0-0 (ammonium nitrate), or 15 lbs of 16-0-0 (nitrate of soda) per 1000 sq. ft. Work fertilizer (and lime, if needed) into the soil to a depth of 4 to 6 inches prior to seeding. After the turf has been established (6 to 8 weeks) follow one of the three maintenance fertilization programs suggested in the enclosed Note on lawn care.

CODE NO: 202,204

CROP: New Lawn Maintenance, Repair of Bare Spots - Kentucky Bluegrass,
Pescue, Bermudagrass, Zoysiagrass

OPTIMUM pH: 6.5-----
Soil Test Level

P205	K20	Comment No.	Fertilizer Recommendations
L	L	*205.	FERTILIZER RECOMMENDATIONS: Apply 10 lbs of 0-20-20 per 1000 sq. ft. now and again in the spring (or fall). This will correct a shortage of phosphate and potash in the soil but does not supply nitrogen. Therefore, apply an additional amount of fertilizer by following one of the three fertilization programs suggested in the enclosed Note on lawn maintenance. Water-in all fertilizer immediately.
L	M-VH	*206.	FERTILIZER RECOMMENDATIONS: Apply 6 lbs of 0-46-0 per 1000 sq. ft. This will correct a shortage of phosphate in the soil but does not supply nitrogen. Therefore, apply an additional amount of fertilizer by following one of the three fertilization programs suggested in the enclosed Note on lawn maintenance. Water-in all fertilizer immediately.
M-VH	L	*207.	FERTILIZER RECOMMENDATIONS: Apply 4 lbs of 0-0-50 or 3 lbs of 0-0-60 per 1000 sq. ft. This will correct a shortage of potash in the soil but does not supply nitrogen. Therefore, apply an additional amount of fertilizer by following one of the three fertilization programs suggested in the enclosed Note on lawn maintenance. Water-in all fertilizer immediately.
M-VH	M-VH	*208.	FERTILIZER RECOMMENDATIONS: Follow one of the three maintenance fertilization programs suggested in the enclosed Note on lawn care.

CODE NO: 210-212CROP: Vegetable Garden, Flower Garden, RosesOPTIMUM pH: 6.5-----
Soil Test Level-----
P205 K20 Comment
 No.Fertilizer Recommendations

L-M	L-M	*221.	FERTILIZER RECOMMENDATIONS: Apply 4 lbs of 5-10-10 per 100 sq. ft. For additional information on fertilization, see Note 19 (Enclosed).
L-M	H-VH	*222.	FERTILIZER RECOMMENDATIONS: Apply 4 lbs of 5-10-5 per 100 sq. ft. For additional information on fertilization, see Note 19 (Enclosed).
H-VH	L-VH	*223.	FERTILIZER RECOMMENDATIONS: Apply 2 lbs of 10-10-10 per 100 sq. ft. For additional information on fertilization, see Note 19 (Enclosed).

CODE NO: 220, 226-230, 232, 234

CROP: Home Fruit Trees - Apples, Nectarines, Peaches, Pears, Plums, Quince,
Sour Cherry, Sweet Cherry

OPTIMUM pH: 6.5

Soil Test Level

-----		Comment	Fertilizer Recommendations
P205	K20	No.	
-----		-----	-----
L	L	*243.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 21.
L	M-VH	*243.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 21.
M-VH	L	*243.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 21.
M-VH	M-VH	*244.	FERTILIZER RECOMMENDATIONS: Nitrogen-Only Fertilizer Needed - See Note 21.

CODE NO: 221-225, 231, 233

CROP: Small Fruits for Home Use - Blackberries, Blueberries, Currants,
Gooseberries, Grapes, Raspberries, Strawberries

OPTIMUM pH: See Line Section

Soil Test Level

-----		Comment	Fertilizer Recommendations
P205	K20	No.	

L	L	*241.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 22.
L	M-VH	*241.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 22.
M-VH	L	*241.	FERTILIZER RECOMMENDATIONS: Complete Fertilizer Needed - See Note 22.
M-VH	M-VH	*242.	FERTILIZER RECOMMENDATIONS: Nitrogen-Only Fertilizer Needed - See Note 22.

Code No: 240, 241, 242, 243, 244

Crop: Azaleas, Andromedas, Camellias, Laurel, Rhododendron

OPTIMUM pH: 5.2

Comment
No.

Fertilizer Recommendations

*261. FERTILIZER RECOMMENDATIONS: See Note 20 (Enclosed).

Code No: 245

Crop: Shrubs, Non Acid-Loving

OPTIMUM pH: 6.5

Comment
No.

Fertilizer Recommendations

*261. FERTILIZER RECOMMENDATIONS: See Note 20 (Enclosed).

Code No: 246

Crop: Trees

OPTIMUM pH: 6.5

Comment
No.

Fertilizer Recommendations

*261.

FERTILIZER RECOMMENDATIONS: See Note 20 (Enclosed).

CODE NO: 250

CROP: Potted House Plants

OPTIMUM pH: 6.5 (Most Plants)

Comment
No.

Fertilizer Recommendations

*281.

FERTILIZER RECOMMENDATIONS: See Note 19 (Enclosed).

ODE NO: 301-323, 353-354

ROP: Greenhouse Production - Carnations, Chrysanthemums, Snapdragons, Azaleas, Lillies, Poinsettias, Bedding Plants, Foliage Plants, Hanging Baskets, Vegetable Transplants; Nursery Production - Container-Grown Acid-Loving Plants, Container-Grown Non-Acid-Loving Plants (See also Crops 351-352)

OPTIMUM pH: See Lime Section

Soil Test Level

P205

K20

Comment
No.

Fertilizer Recommendations

L-N	L-VH	*301.	FERTILIZER RECOMMENDATIONS: Apply 1/2 to 3/4 lbs of 20-20-20 per 100 sq. ft. or per 25 gal of water.
I	L-VH	*302.	FERTILIZER RECOMMENDATIONS: Apply 1/2 to 3/4 lbs of 20-5-30 per 100 sq. ft. or per 25 gal of water.
VH	L-H	*302.	FERTILIZER RECOMMENDATIONS: Apply 1/2 to 3/4 lbs of 20-5-30 per 100 sq. ft. or per 25 gal of water.
VH	VH	*303.	FERTILIZER RECOMMENDATIONS: Only supplemental N fertilizer is needed. Apply 1/2 lb of calcium nitrate per 100 sq. ft. (or 1/4 lb of calcium nitrate per 25 gal of water.

CODE NO: 351-352

CROP: Nursery Production - Field Grown Non-Acid-Loving Plants, Field Grown Acid-Loving Plants (See Also Crops 353-354)

OPTIMUM pH: See Lime Section

Soil Test Level

-----		Comment	Fertilizer Recommendations
P205	K20	No.	

L-M	L-VH	*321.	FERTILIZER RECOMMENDATIONS: Apply 2000 lbs of 5-10-5 per acre.
H	L-VH	*322.	FERTILIZER RECOMMENDATIONS: Apply 1000 lbs of 10-10-10 per acre.
VH	L-VH	*323.	FERTILIZER RECOMMENDATIONS: Apply 150 lbs of ammonium nitrate per acre in early spring.

Crop: Corn (Grain), No Till - Surface-Mined AreasOptimum pH: 5.6 - 6.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0

Code No: 402Crop: Corn (Grain), Conventional - Surface-Mined AreasOptimum pH: 5.6 - 6.2

Soil Test Level	Fertilizer Recommendations (lb/A)		
	N	P2O5	K2O
L	125-150	60-100	60-100
M		40- 60	40- 60
H		10- 40	10- 40
VH		0	0