

POTATOES-UNSPECIFIED USE Crop Code: 1301

Standard Message:

NOTE: If scab is a problem, disregard any limestone recommendation. Apply none at all.

Limestone recommendation, if any, is to bring the soil pH to 6.0. For most other vegetable and agronomic crops, a soil pH of 6.5 is recommended. Multiply the exchangeable acidity by 840 to estimate the lime requirement for pH 6.5.

If limestone is recommended, do not apply more than 3000 pounds per acre of calcium carbonate equivalent the year before planting potatoes. The remainder should be applied after the potato crop has been harvested.

When planting potatoes following a legume or legume grass mix, the amount of N supplied should be factored into a fertilization program. A general rule would be to estimate a minimum of 80 lb of N being supplied by the previous legume or legume/grass mixture. Livestock manure is recommended in moderate amounts. Apply only enough manure to partially supply the crop nutrient needs. Be sure to reduce the amount of fertilizer applied after manure applications. Excessive use of manure may aggravate a common scab problem.

Make adjustments in your plant nutrient needs based on your previous cropping experience. Take into account the variety planted, management practices and the use of the potatoes that are being produced. If vine growth has been excessive in past seasons, reduce N applications. Excess N may improve yield but will often reduce storage life, promote color problems, and reduce specific gravities. See back message 7,12, and 13 for additional information.

Lime and Magnesium Recommendation:

pH Goal: 6.0

Opt soil test Mg (ppm): 100

Nitrogen Recommendation (lb N/A): 200

Phosphorus and Potassium Recommendations: See page 2

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Phosphorus Recommendation (lb P2O5/A):

(Optimum soil test P: 35 -55 ppm)

Soil test P (ppm)	P2O5 lb/A
0	240
5	220
10	200
15	170
20	150
25	125
30	100
35	80
40	60
45	50
50	50
55	50
60	50
65	50
70	50
75	50
80	50
85	50
90	50
95	50
100	50
105	50
110	50
115	50
120	50
125	50
130	50
135	50
140	50
145	50
150	50
155	50
160	50
165	50
170	50
175	50

Potassium Recommendation (lb K2O/A):

(Optimum soil test K: 100 - 200 ppm)

Soil test K (ppm)	K2O lb/A
0	430
10	430
20	420
30	400
40	375
50	350
60	325
70	300
80	280
90	260
100	240
110	220
120	190
130	175
140	140
150	120
160	100
170	75
180	50
190	50
200	50
210	50
220	50
230	50
240	50
250	50
260	50
270	50
280	50
290	50
300	50