

MEANS AND RANGES FOR 1935 POTATO CROP - TABLE 1a

Spring	ppm of green lower stem tissue		Yields Bu. Per Acre	Rainfall Total 10 days before date, inches	Temperature Average 10 days before date, Degrees Fahrenheit.
	Soluble Nitrogen	Phosphate			
Date	Mean*	Mean	Mean	Inches	Degrees Fahrenheit.
June 5	486.	230.		1.12	69
June 21	430.	143.		2.58	73
July 5	485.	160.		1.89	79
July 20			168.4		
Average	460.	178.		5.57 (Total)	74 (Average)

The range of values for the spring crop are: Soluble N; 99-1625 ppm.  
Phosphate; 15 to 600 ppm.  
Yield; 96 to 320 bu.

TABLE 1b

Fall					
Aug. 29	1413	244		3.52	72
Sept. 12	991	202		0.47	66
Sept. 16	725	196			
Sept. 28	685	187		0.01	72
Oct. 10			197.2		
Average	954	207		4.00 (Total)	70 (Average)

The range of values for the fall crop are: Soluble N; 215 to 2000 ppm.  
Phosphate; 32 to 560 ppm.  
Yield; 136 to 368 bu.

CORRELATION COEFFICIENTS FOR 1935 POTATO CROP

Table 2a

Spring 1935	Simple Coefficient *			Partial Coefficients**			Partial coefficients with above 1000 ppm. N & 200 ppm. P removed.		Indicated direction of optimum.
	N Y	P Y	N P	NY.P	PY.N	NP.Y	NY. P	PY.N	
June 5	.395	.002	-.272	.416	.123	-.287	.376	.446	Above 1000 N Below 200 P
June 21	.556	.053	-.689	.619	.724	-.866	.515	.174	Above 1000 N Above 200 P
July 5	.434	.074	-.144	.441	.149	-.138	.170	.050	Above 1000 N Above 200 P

Table 2b

Fall 1935									
Aug. 29	.220	-.031	-.088	.218	-.012	-.075	.351	.037	Below 1250 N Below 200 P
Sept. 12	-.078	-.028	.026	-.079	-.030	.028	.210	.115	Below 1000 N Below 200 P
Sept. 28	.351	.330	.063	.289	.358	-.175	.192	.403	Above 1000 N Below 200 P

\* The simple coefficients are significant at 0.273

\*\* The partial coefficients are significant at 0.281

(Fisher Table V P = .05

N = .50