## EVALUATION OF CERTIFIED POTATO SEED.

Dr. W. G. Hoyman Plant Pathologist, U. S. Department of Agriculture Irrigation Experiment Station, Prosser, Washington

A potato seed evaluation project was started in 1961 to evaluate certified seed stocks being planted in Eastern Washington. Inspectors of the State Department of Agriculture removed 300 small tubers from each seed lot and these were planted as single drops at the Washington State University Research Farm, Othello. Although all diseases appearing in the crop were recorded, the principal objective was to determine the sources and amount of leafroll. Tables 1 through 4 give the information for the years 1961 through 1964, and a summary of the 4-years' data is given in table 5.

Table 1

Potato Seed Evaluation 1961			
Source.	No.	No.	Per
2	amples	leafroll	cent
Mont.	52	3	6
Ida.	48	7	14
Alta.	5	2	40
Nebr.	2	1	50
B. C.	37	19	51
N. Dak.	7	4	57.
Ore.	10	6	60
Minn.	8	5	62
Wash.	23	18	78
	192	65	

Table 3

Potato	Seed Eva	aluatio	n 1963
Source	No.	No.	Per
	samples	leafro	ll cent
N. Dak.	3	0	0
Ida.	25	2	8
Mont.	63	8	13
Minn.	6	1	17
В. С.	7	2	28
Wash.	16	7	44
Alta.	2	1	50
Ore.	7	6	86
	129	27	

Table 2

Potato Seed Evaluation 1962				
Source	No.	No.	Per	
	samples	leafro	ll cent	
Mont.	50	6	12	
Ida.	48	9	19	
N. Dak.	5	1	20	
В. С.	6	2	33	
Minn.	5	2	40	
Wash.	17	12	40	
Alta.	1	1	100	
Nebr.	1	1	100	
	133	33		

Table 4

Potato	Seed Eval	uation	1964	
Source	No.	No.	Per	_
	samples	sleafro	ll_cent	
Canada	6	0	0	
Minn.	3	0	0	
N. Dak.	8	1	12	
Mont.	70	10	14	
Wash.	17	3	18	
Ore.	5	1	20	
lda.	24	5	21	
	133	20		_

Table 5

_Potato	Seed Ev	aulatio	n 1961-64
Source	No.	No.	Per
	samples	leafro	ll cent
Mont.	235	27	11
Ida.	145	23	16
N. Dak	. 23	6	26
Minn.	22	8	36
В. С.	50	23	46
Alta.	8	4	50
Wash.	73	40	55
Ore.	22	13	59
Nebr.	3	2	67
	581	146	· · · · · · · · · · · · · · · · · · ·