

Effect of Straw and Nitrogen on Common Root Rot -
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Tests were conducted on wheat stubble land at five locations in 1967 and seven locations in 1968 to see what effect the application of additional straw or the removal of all stubble and straw would have on common root rot. Nitrogen applications were included. The tests were 3 x 3 factorial with straw at approx. 0, 1 ton and 3 ton/acre and nitrogen at 0, 30 lb and 60 lb N/acre.

Emergence was slightly improved by removal of crop residues and slightly reduced by addition of straw.

Root rot was significantly increased by removal of crop residues and unchanged or reduced by incorporation of additional straw. Root rot was increased by nitrogen fertilization.

Yields generally, were affected little by nitrogen application or straw amendment.

1968 Stubble Test

Yield in gms/m²

Location	Straw	Nitrogen			
		0	30lb	60 lb	x
Swift Current	0	18	21	20	20
	1t	24	19	24	22
	3t	17	14	19	17
		20	18	21	
no sig. diff.					
Scott	0	56	64	62	61
	1t	59	57	61	59
	3t	71	57	61	63
		62	59	61	
no sig. diff.					
Saskatoon	0	361	339	354	351
	1t	371	335	363	356
	3t	325	337	334	332
		352	337	350	
no sig. diff.					
Lacombe	0	231	267	228	242
	1t	236	210	248	231
	3t	221	215	268	235
		229	231	248	
no sig. diff.					
Loon Lake	0	190	201	196	196
	1t	195	190	211	199
	3t	180	196	192	189
		188	196	200	
no sig. diff.					
Indian Head	0	108	106	103	106
	1t	118	117	103	113
	3t	97	109	99	102
		108	111	102	
L.S.D. 1% = 8.5 5% = 6.2					
All Locations analyzed as a single unit	0	161	166	160	162
	1t	167	155	168	163
	3t	151	155	162	156
		160	159	164	
no sig. diff.					