

Wheat - Sorghum - Wheat - Corn and Wheat-Sudan Compared in a Two Year Rotation.

Rancher forage sorghum, Reliance grain sorghum, Piper sudan grass and Nodakhybrid 301 corn are compared as silage crops in this trial. In years when grain sorghum matures, seed yields of this crop and shelled corn yields will also be recorded.

Yields for 1960 are given in Table 10.

Table 10. Wheat-Sorghum, Wheat-Corn and Wheat-Sudan in two-year rotation						
Treatment		Yield				
Wheat after forage sorghum:	Plot No.	61	91	93	122	Av.
Wheat Yield - Bushels Per Acre		13.8	8.8	9.3	8.8	10.2
Wheat after corn:	Plot No.	57	62	89	94	
Wheat Yield - Bushels Per Acre		13.5	11.3	9.0	11.6	11.4
Wheat after grain sorghum:	11*					
Cultivated rows:	Plot No.	28	30	32		
Wheat yield Bu. Per Acre		14.3	11.9	7.9		11.4

Solid Drilled	Plot No.	29	31	33		
Wheat yield Bu. Per Acre		13.7	13.4	12.6		13.2
Wheat after Sudan:	Plot No.	1	3	5		
Wheat yield Bushels Per Acre		9.0	7.7	8.1		8.3
*11 Solid drilled grain sorghum plots were considered a total failure in 1959 and were plowed in July. Grain yields in 1960 on these plots reflect the effect of this midsummer tillage.						

Table 11. Wheat-Sorghum, Wheat-Corn and Wheat-Sudan in two-year Rotation						
Treatment		Yield				
Forage sorghum after Wheat:	Plot No.	60	90	92	121	Av.
Silage yield-tons/acre @ 70% Moisture		1.93	1.33	4.08	2.63	2.49
Corn after wheat:	Plot No.	56	63	88	95	Av.
Silage yield-tons/acre @ 70% Moisture		2.86	1.27	1.65	2.14	1.98
Grain sorghum after wheat:						
Cultivated rows	Plot No.	23	25	27	Average	
Silage yield-tons/acre @ 70% Moisture		1.97	1.49	1.67	1.71	

Grain yield-lbs/acre		220	242	319	260	
Solid drilled	Plot No.	22	24	26	Average	
Silage yield-tons/acre @ 70% Moisture		See footnote ¹				
Sudan after wheat:	Plot No.	2	4	120	Average	
Silage yield-tons/acre @ 70% Moisture		1.50	.80	4.88	2.39	
¹ Solid drilled grain sorghum trials were considered a total failure in 1960 and were not harvested.						

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