

Yield advantage of semidwarf soybean varieties in a high yield environment, Saybrook, IL, 1976.

Variety	<u>30-inch rows</u>		<u>7-inch rows</u>	
	Yield	Incr	Yield	Incr
	--- (bu/A) ---		--- (bu/A) ---	
Williams	49.1	-----	58.5	-----
Gnome	47.5	-1.6	72.3	+13.8
Elf	54.8	+5.7	80.0	+21.5
Pixie	54.4	+5.3	74.2	+15.7

Williams 30-inch @150,000 seeds/A, 7-inch @225,000 seeds/A
 Semidwarf Varieties: 30-inch @225,000 seeds/A, 7-inch @300,000 seeds/A

Yield of semidwarf soybean varieties in three high-yield environments in Ohio in 1979.

Variety ²	Wooster ¹		S. Charleston		Hoytville		3-Loc. Mean	
	30"	7"	30"	7"	30"	7"	30"	7"
	----- (bu/A) -----							
Williams	42.6	65.4	51.6	68.0	52.1	59.4	48.8	64.3
Pixie	47.9	77.3	61.0	77.2	55.7	71.3	54.9	75.3
Sprite	49.5	79.0	65.1	83.2	58.4	84.1	57.7	82.1
Hobbit	49.3	78.9	64.3	84.7	58.8	81.3	57.5	81.6

¹ Irrigated.

² Seeding rate per acre 150,000 in 30-inch and 225,000 in 7-inch for indeterminate varieties and 225,000 in 30-inch and 300,000 in 7-inch for determinate semidwarf varieties.

Year effect on the yield advantage of a solid-seeded semidwarf (SSS) system over a wide row indeterminate (WRI) system, Hoytville, OH, 1977-1986.¹

Year	30-in. Williams (WRI)	7-in. Sprite (SSS)	Yield advantage	
	----- (bu/A) -----		----- (%) -----	
1977	47.6	63.1	15.5	32.6
1978	33.4	51.4	18.0	53.9
1979	52.1	84.1	32.0	61.4
1980	58.3	79.2	20.9	35.8
1981	35.6	49.4	13.8	38.8
1982	39.9	40.1	0.2	0.5
1983	46.3	40.8	-5.5	-11.9
1984	66.5	76.7	10.2	15.3
1985	49.2	52.6	3.4	6.9
1986	<u>62.3</u>	<u>72.0</u>	<u>9.7</u>	<u>15.6</u>
10-year mean	49.1	60.9	11.8	24.0

¹ LSD (0.05) between systems within years = 7.0 bu/A, LSD (0.05) between systems averaged over 10 yr = 2.2 bu/A.

Williams in 30-inch rows @ 150,000 seeds/A

Sprite in 7-inch rows @ 300,000 seeds/A

Year effect on the yield advantage of a solid-seeded semidwarf (SSS) system over a wide row indeterminate (WRI) system, S. Charleston, OH, 1977-1986.¹

Year	30-in. Williams (WRI)	7-in. Sprite (SSS)	Yield advantage	
	----- (bu/A) -----		----- (%) -----	
1977	62.2	80.5	18.3	29.4
1978	62.5	71.2	8.7	13.9
1979	51.6	83.2	31.6	61.2
1980	56.1	57.9	1.8	3.2
1981	61.4	76.1	14.7	23.9
1982	68.2	78.5	10.3	15.1
1983	64.8	77.2	12.4	19.1
1984	58.2	75.4	17.2	29.6
1985	61.3	77.4	16.1	26.3
1986	<u>62.0</u>	<u>72.1</u>	<u>10.1</u>	<u>16.3</u>
10-year mean	60.8	75.0	14.1	23.4

¹ LSD (0.05) between systems within years = 7.4 bu/A, LSD (0.05) between systems averaged over 10 yr = 2.3 bu/A.

Williams in 30-inch rows @ 150,000 seeds/A

Sprite in 7-inch rows @ 300,000 seeds/A