

2002 Soybean Production Trial Hettinger

Variety	Row Spacing	Seeding Rate / Acre	Plant Stand / Acre	Canopy Closure	10% Bloom	Days to Mature	Plant Height	Pod Height	Test Weight	1000 Seed Weight	Oil Content	Seed Protein	Grain Yield
	inches	1000's	1000's	days*	days*	days*	cm	cm	lbs/bu	grams	%	%	bu/ac
Seeding Date: May 13, 2002													
Walsh	7	175	144	53	60	106	29	4	57.4	116	16.4	41.4	8.7
Barnes	7	175	148	53	61	109	33	5	57.2	113	17.2	39.8	10.5
Walsh	7	225	196	53	60	107	30	4	57.6	113	16.4	41.3	9.5
Barnes	7	225	196	53	62	110	32	4	57.3	115	16.6	40.7	10.9
Walsh	14	175	162	64	60	106	32	5	57.5	114	16.6	41.1	7.3
Barnes	14	175	118	64	62	109	32	5	58.0	116	17.3	39.4	8.9
Walsh	14	225	218	65	60	106	31	4	57.3	117	16.4	41.4	7.7
Barnes	14	225	202	64	62	109	31	5	57.3	115	17.1	40.0	9.8
Seeding Date: May 22, 2002													
Walsh	7	175	144	44	54	100	29	3	57.5	107	16.6	40.8	8.0
Barnes	7	175	109	45	56	103	31	4	57.4	102	16.6	40.5	8.4
Walsh	7	225	157	44	54	101	28	4	57.3	108	16.2	41.5	8.2
Barnes	7	225	139	44	55	103	28	4	57.5	106	16.3	41.0	8.9
Walsh	14	175	90	57	54	103	31	2	57.6	109	16.3	40.9	8.4
Barnes	14	175	103	58	55	104	33	4	57.8	114	17.3	39.5	8.4
Walsh	14	225	146	56	54	103	33	2	57.6	112	16.5	40.1	8.2
Barnes	14	225	115	56	55	104	32	4	57.3	111	17.3	39.3	9.0
Trial Mean			149	55	58	105	31	4	57.5	112	16.7	40.5	8.8
C.V. %			21.0	2.4	1.5	1.4	8.5	26.8	0.7	4.8	1.5	1.1	16.7
LSD .05			44	2	1	2	4	1	NS	8	0.8	1.4	2.1
LSD .01			59	3	2	3	NS	2	NS	10	1.1	2.0	2.8

Harvest Date: September 17, 2002

Previous Crop: Barley * days from planting. NS = no significant difference.

2002 Soybean Production Trial at Hettinger

Seeding Date

Seeding Date	Combined Means										
	Plant Stand / Acre	Canopy Closure	10% Bloom	Days to Mature	Plant Height	Pod Height	Test Weight	1000 Seed Weight	Oil Content	Seed Protein	Grain Yield
	1000's	days	days	days	cm	cm	lbs/bu	grams	%	%	bu/ac
May 13	173	59	61	108	31	5	57.4	115	16.8	40.6	9.2
May 22	125	50	55	103	31	3	57.5	109	16.6	40.4	8.4
Sig. Diff.	**	**	**	**	NS	**	NS	**	NS	NS	NS

Row Spacing

Row Spacing	Combined Means										
	Plant Stand / Acre	Canopy Closure	10% Bloom	Days to Mature	Plant Height	Pod Height	Test Weight	1000 Seed Weight	Oil Content	Seed Protein	Grain Yield
	1000's	days	days	days	cm	cm	lbs/bu	grams	%	%	bu/ac
7	154	49	58	105	30	4	57.4	110	16.5	40.9	9.1
14	144	60	58	106	32	4	57.5	114	16.9	40.2	8.5
Sig. Diff.	NS	**	NS	NS	*	NS	NS	*	NS	*	NS

Seeding Rate

Seeding Rate	Combined Means										
	Plant Stand / Acre	Canopy Closure	10% Bloom	Days to Mature	Plant Height	Pod Height	Test Weight	1000 Seed Weight	Oil Content	Seed Protein	Grain Yield
	1000's	days	days	days	cm	cm	lbs/bu	grams	%	%	bu/ac
175	127	55	58	105	31	4	57.6	112	16.8	40.4	8.6
225	171	54	58	105	31	4	57.4	112	16.6	40.7	9.0
Sig. Diff.	**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Variety

Variety	Combined Means										
	Plant Stand / Acre	Canopy Closure	10% Bloom	Days to Mature	Plant Height	Pod Height	Test Weight	1000 Seed Weight	Oil Content	Seed Protein	Grain Yield
	1000's	days	days	days	cm	cm	lbs/bu	grams	%	%	bu/ac
Walsh	157	54	57	104	30	4	57.5	112	16.4	41.1	8.3
Barnes	141	55	59	106	32	4	57.5	112	16.9	40.0	9.3

Sig. Diff. * NS ** ** NS NS NS NS ** ** **

Significant differences: *P<0.5, **P<0.1, NS=none.