



MONITOR SUGAR RESEARCH BULLETIN

No. XXI 12/2003

OFFICIAL VARIETY TRIAL RESULTS

The data printed in this newsletter should be reviewed before purchasing seed for the upcoming year. All factors, associated with any individual variety, should be considered.

Official Variety Trials - Monitor Sugar

Retaining Approval for 2004 (last 3 years' results)

Variety	RWST (1)	RWSA (2)	LEAFSPOT
HM E-17	101.2	99.1	109.4
HM E-38	100.6	98.7	114.0
Beta 5736	101.0	101.2	81.4
SX Spartan	100.2	92.9	106.6
SX Prompt	97.6	95.1	104.4
Crystal 963	101.4	107.1	107.6
Beta 5451	100.5	106.3	91.1
Beta 5374	100.6	105.6	114.2

(1) RWSA = Sugar per Acre

(2) RWST = Sugar per Ton

For RWST/RWSA – Higher is Better

(3) 100% = Average of Check Varieties

For Leafspot – Lower = More Resistance

Received Full Approval (3 years' results)

	<u>RWST</u> Need 98.25%	<u>RWSA</u> Need 102%	<u>LEAFSPOT</u> 125% or Less
Beta 5310	99.7	104.9	81.3

Received Limited Approval (2 years' results)

	<u>RWST</u> Need 98.25%	<u>RWSA</u> Need 102%	<u>LEAFSPOT</u> 125% or Less
Crystal 271 (C1171)	98.9	103.3	96.8

Special Approval

	<u>Sales Limit</u>	<u>RWST</u>	<u>RWSA</u>	<u>LEAFSPOT</u>
Crystal 1353	5000 units	94.3	85.2	78.4
HM RH-5	5000 units	100.1	99.1	100.2
HM E-33	Unlimited	102.3	94.1	96.6
Crystal 913	500 Units	95.7	94.1	108.4
HM 2761Rz	500 Units	96.8	103.2	100.8

Beta 5823, Beta 5400, Crystal 648, and Beta 5977 can be sold through 2004.

Crystal 555, HM E-4, and Beta 5172 can be sold through 2005.

TYPE: SPACE PLANT
AVERAGE OF 4 LOCATIONS

For 2003 Only

TREATMENT	RWSA	% SUGAR	RWST	TON/A	% CJP	% EMERG	BEETS/ 100' AT HARVEST
Beta 5310	5897	18.1	254.3	23.2	92.71	70.6	126.0
Crystal 963	5692	17.8	250.0	22.8	92.73	67.5	128.4
Beta 5451	5622	17.6	246.9	22.8	92.61	60.6	117.4
HM 2761Rz	5502	17.3	241.7	22.8	92.60	64.1	134.8
Beta 5736	5464	18.1	253.0	21.6	92.37	58.4	110.2
HM RH-5	5448	17.1	240.0	22.7	92.69	67.5	131.7
HH-135	5332	17.5	247.4	21.5	93.08	52.1	114.1
HM E-17	5285	17.6	246.6	21.4	92.61	66.5	128.4
Beta 5374	5238	17.5	246.5	21.3	92.98	64.2	116.3
SX Prompt	5222	17.5	242.1	21.6	92.22	73.4	141.2
HM E-38	5163	17.6	245.0	21.1	92.44	68.1	132.8
Crystal 913	5155	16.9	235.4	21.9	92.45	64.4	118.9
HM E-33	5002	17.6	247.3	20.2	92.88	64.9	129.7
SX Spartan	4692	17.4	243.9	19.2	92.62	64.4	114.0
Crystal 1353	4625	16.8	233.3	19.8	92.38	60.2	113.1
GM	5289	17.49	244.9	21.59	92.62	64.4	123.8
LSD (5%)	348	0.51	8.0	0.98	0.35	5.6	8.8
CV%	4.6	2.04	2.3	3.18	0.26	6.1	5.0
Row Width:	30"	Row Length:		30			
Rows:	4	Replications:		6			

EXACT LOCATION: Bay City, Deckerville, Hope, Linwood

SPACE PLANT						OFFICIAL VARIETY TRIAL						
Average of 2 Years						2003						
						AVERAGE OF 7 LOCATIONS						
						Sorted by RWSA						
TREATMENT	RWSA	% SUGAR	RWST	TON/ A	% EMERG	VARIETY	RWSA	% SUGAR	RWST	TON/A	% EMERG	LEAF- SPOT*
Crystal 963	5463	17.3	243.3	22.4	67.3	Beta 5451	6310	19.11	273.1	23.08	51.2	4.0
Beta 5451	5272	17.1	238.9	22.0	63.5	Beta 5310	6152	19.18	272.4	22.59	58.3	3.5
HM RH-5	5112	16.9	235.7	21.6	66.7	Crystal 963	6128	19.00	270.5	22.64	55.0	3.5
SX Prompt	5045	17.1	236.6	21.4	74.9	Crystal 271	6059	18.99	270.1	22.43	55.8	3.1
HM E-17	5042	17.4	244.7	20.6	70.1	Beta 5374	5985	18.85	269.3	22.22	52.8	3.7
HM E-38	4995	17.2	239.6	20.9	71.5	Beta 5736	5915	19.24	273.0	21.67	51.5	3.2
Beta 5736	4990	17.5	243.2	20.5	57.6	HM 2761Rz	5872	18.51	262.2	22.40	58.2	3.5
HM E-33	4983	17.6	248.8	20.1	68.6	HM RH-5	5757	18.49	263.5	21.82	57.6	3.5
Crystal 913	4832	16.5	228.0	21.2	67.8	HM E-17	5663	18.71	266.5	21.22	58.7	3.9
SX Spartan	4501	17.2	240.9	18.7	67.7	HM E-38	5612	18.80	266.3	21.04	60.7	4.0
Crystal 1353	4386	16.3	225.0	19.5	61.7	Crystal 913	5529	18.27	258.1	21.39	55.1	3.6
Means	4965	17.1	238.6	20.8	60.7	Beta 5400	5516	18.31	263.1	20.91	54.5	3.6
Quadris		<u>2002</u>	<u>2003</u>			SX Prompt	5480	18.38	259.6	21.08	61.6	3.4
Applied For						Crystal 648	5342	18.22	259.7	20.43	46.8	3.2
Rhizoctonia		6-10 Leaf	4-8 Leaf			HM E-33	5309	18.79	267.7	19.80	55.4	3.3
Control						SX Spartan	5210	18.38	261.0	19.93	54.4	3.8
						Crystal 1353	4905	18.03	254.5	19.26	53.6	3.3
						GM	5691	18.66	265.3	21.41	55.4	3.5
						LSD (5%)	256	.36	5.4	.81	4.3	
						CV%	4.2	1.86	1.9	3.52	18.2	

* Lower number means more resistance

SEED AVAILABLE

Monitor Sugar Company will have an ample supply of ACH 963 and SX Prompt for sale to growers.
We will also have the following varieties available for the 2004 Crop Year:

Crystal 1353
Crystal 555
Crystal 648

Crystal 963
Crystal 271 (C2271)

Seedex Prompt
HMI E-17
HMI E-33

Seed pricing and seed orders will be available soon.

The Company and Grower Seed Committee met on Monday, December 1st, and agreed to the VAP for 2004.

OFFICIAL VARIETY TRIALS

AVERAGE OF 3 YEARS

VARIETY	RWSA	%	TON/A	%	LEAF- SPOT*	RESISTANCE		
		SUGAR		EMERG		RHIZOC	APHIDS	APH
Crystal 963	6306	17.99	24.70	51.0	3.1	Fair	Excellent	Excellent
Beta 5451	6257	17.84	24.73	52.0	2.8	Fair	Excellent	Excellent
Beta 5374	6218	17.89	24.58	52.3	3.3		Fair	
Beta 5310	6178	17.78	24.61	52.5	2.4	Fair	Excellent	Excellent
HM 2761Rz	6080	17.39	24.98	57.3	3.0	Fair	Fair	Excellent
Beta 5736	5961	18.11	23.48	48.6	2.5	Good	Good	
HM RH-5	5838	17.78	23.16	55.7	3.0	Good	Poor	
HM E-17	5836	17.94	22.91	58.1	3.2		Good	Good
HM E-38	5816	17.88	22.94	59.4	3.3		Good	Good
SX Prompt	5604	17.57	22.83	58.6	3.0	Fair	Excellent	Excellent
Crystal 913	5542	17.33	23.08	49.3	3.1	Good	Excellent	
HM E-33	5540	18.07	21.53	56.3	2.8	Fair	Poor	
SX Spartan	5472	17.81	21.70	54.6	3.1		Good	
Crystal 1353	5017	17.02	21.18	53.7	2.4	Excellent	Excellent	
Means	5833	17.74	23.32	54.2	2.9			

* Lower number means more resistance.

