

Table 1. Comparison of 2018 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Three Years of Data (2015-2017)

Specialty	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Cercospora Leaf Spot**		Rhizoctonia Root Rating**		Aphanomyces Root Rating**		Emergence (%)		Revenue per Ton*		Revenue per Acre*	
	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean

2018 Fully Approved Varieties - Three Years of Data (% of Mean is of Approved Mean)

Beta 92RR30	APH	284.5	99.9	9117.8	94.3	16.4	99.7	92.6	100.2	31.9	94.1	4.2	96.5	4.7	100.0	3.3	81.0	70.7	100.1	99.8	93.9
Beta 9475	CLS	281.8	99.0	10074.3	104.2	16.3	98.9	92.6	100.2	35.6	105.3	3.9	88.7	4.4	93.6	4.7	113.6	71.0	100.4	98.0	103.2
Crystal M375		282.7	99.3	9649.9	99.8	16.4	99.7	92.1	99.7	34.0	100.5	4.7	107.7	5.0	106.4	4.8	116.6	70.1	99.1	98.5	99.0
Crystal M380		284.1	99.8	9400.4	97.2	16.4	99.5	92.6	100.2	33.0	97.4	4.7	106.3	4.6	97.9	3.4	82.5	69.1	97.7	99.5	96.9
Crystal M579		290.8	102.1	10118.6	104.6	16.8	102.3	92.2	99.8	34.8	102.7	4.4	100.8	4.8	102.1	4.4	106.3	72.6	102.7	104.2	107.0
Mean		284.8	100.0	9672.2	100.0	16.5	100.0	92.4	100.0	33.9	100.0	4.4	100.0	4.7	100.0	4.1	100.0	70.7	100.0	100.0	100.0

2018 Test Market Varieties for Limited Sales - Three Years of Data (% of mean is of Approved Mean)

SV RR958		274.4	96.3	9473.7	97.9	15.9	96.6	92.4	100.0	34.5	101.7	4.4	101.6	4.3	91.5	4.8	115.7	71.3	100.9	92.8	94.5
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2018 Specialty Approved Varieties - Three Years of Data (% of mean is of Approved Mean)

Beta 9505	CLS	271.3	95.3	9491.2	98.1	15.8	95.7	92.3	99.8	35.0	103.4	3.8	87.4	4.0	85.1	3.9	94.0	70.8	100.1	90.7	93.8
Crystal RR018	RHC	276.6	97.1	9387.2	97.1	16.1	98.0	91.8	99.4	33.8	100.0	4.2	97.1	3.7	78.7	4.7	113.5	73.1	103.4	94.3	94.3
Hilleshog 9093RR	RHC	262.7	92.3	8703.8	90.0	15.5	93.9	91.4	98.9	33.2	97.9	4.4	99.5	3.3	70.2	4.8	116.2	69.0	97.6	84.6	82.8
Hilleshog 9739	RHC	270.9	95.1	8655.5	89.5	15.7	95.5	92.3	99.9	31.8	93.9	4.0	92.6	3.7	78.7	5.0	121.3	66.6	94.2	90.4	84.9
Maribo MA109RR	RHC	282.2	99.1	9099.5	94.1	16.4	99.4	92.2	99.8	32.3	95.3	4.3	99.3	3.3	70.2	4.6	112.1	69.9	98.8	98.2	93.5

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 22, 2017 for the 1st 2017 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.

Table 2. Comparison of 2018 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Two Year Data (2016 & 2017)

Specialty	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Cercospora Leaf Spot		Rhizoctonia Root Rating		Aphanomyces Root Rating		Emergence (%)		Revenue per Ton*		Revenue per Acre*	
	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr % of mean	% of mean	2 yr % of mean	% of mean

2018 Fully Approved Varieties - Two Years of Data (% of Mean is of Approved Mean)

Beta 92RR30	APH	276.1	99.7	8352.0	91.5	16.0	99.5	92.6	100.1	30.1	91.7	4.4	99.0	4.6	96.6	3.5	82.9	68.4	99.3	99.3	91.0
Beta 9475	CLS	276.0	99.6	9611.2	105.3	15.9	99.4	92.6	100.2	34.7	105.6	3.9	88.2	4.4	92.4	4.8	114.7	71.8	104.1	99.2	104.8
Crystal M375		273.9	98.9	9208.6	100.9	15.9	99.3	92.2	99.7	33.5	102.0	4.7	107.5	5.1	107.1	4.8	114.1	68.5	99.5	97.6	99.5
Crystal M380		275.8	99.5	8793.0	96.3	15.9	99.3	92.7	100.3	31.8	96.8	4.8	108.2	4.8	100.8	3.5	82.9	66.0	95.8	99.1	95.8
Crystal M579		283.5	102.3	9675.2	106.0	16.4	102.5	92.2	99.7	34.1	103.9	4.3	97.0	4.9	102.9	4.4	105.4	69.9	101.4	104.8	108.8
Mean		277.1	100.0	9128.0	100.0	16.0	100.0	92.5	100.0	32.8	100.0	4.4	100.0	4.8	100.0	4.2	100.0	68.9	100.0	100.0	100.0

2018 Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Approved Mean)

Beta 9606		270.1	97.5	8844.3	96.9	15.7	97.9	92.2	99.8	32.7	99.6	4.1	93.0	3.3	69.3	4.2	100.4	67.7	98.3	95.0	94.6
Beta 9661		269.4	97.2	9202.7	100.8	15.6	97.2	92.6	100.1	34.1	103.9	4.5	102.1	3.9	81.9	3.8	90.0	68.3	99.1	94.3	97.9
Beta 9666		278.1	100.4	9705.0	106.3	16.2	101.3	91.8	99.3	35.0	106.4	4.0	91.5	5	105.0	4.4	106.5	70.4	102.2	100.9	107.3
Crystal M623		273.0	98.5	8975.1	98.3	15.8	98.5	92.5	100.1	32.8	99.8	4.1	92.9	3.3	69.3	4.6	109.5	68.7	99.7	96.9	96.7
SV RR863	CLS	273.5	98.7	9640.0	105.6	15.8	98.5	92.7	100.3	35.2	107.0	3.7	84.6	4.1	86.1	4.7	112.4	64.6	93.7	97.5	104.3
SV RR958		268.9	97.1	8971.4	98.3	15.6	97.1	92.5	100.1	33.3	101.3	4.6	103.2	4.2	88.2	4.9	118.3	68.5	99.4	94.0	95.2

2018 Specialty Approved Varieties - Two Years of Data (% of mean is of Approved Mean)

Beta 9505	CLS	264.6	95.5	8914.2	97.7	15.4	96.0	92.3	99.8	33.8	103.0	4.0	90.1	4	84.0	4.1	97.8	68.8	99.8	90.9	93.6
Crystal RR018	RHC	269.9	97.4	8876.6	97.2	15.8	98.2	92.0	99.5	32.7	99.7	4.3	97.9	3.5	73.5	5.0	119.5	70.7	102.5	94.8	94.4
Hilleshog 9093RR	RHC	255.9	92.4	8088.2	88.6	15.1	94.0	91.4	98.9	31.7	96.6	4.4	98.7	3.3	69.3	4.8	114.9	66.2	96.1	84.4	81.6
Hilleshog 9739	RHC	262.4	94.7	8012.8	87.8	15.3	95.4	92.2	99.7	30.5	92.7	4.1	92.0	3.8	79.8	5.0	120.2	63.6	92.2	89.4	82.8
Maribo MA109RR	RHC	275.1	99.3	8540.4	93.6	16.0	99.6	92.3	99.8	31.1	94.6	4.3	96.9	3.4	71.4	5.0	119.1	67.5	98.0	98.6	93.2

2018 Conventional Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Approved Mean)**

Hilleshog 3035RZ		261.4	94.4	8852.2	97.0	15.2	94.8	92.4	99.9	33.8	103.0	-	-	-	-	-	-	72.8	105.6	94.8	97.6
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*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 22, 2017 for the 1st 2017 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.

***Disease nursery data only available for one year.

Table 3. Comparison of 2018 Fully Approved Varieties to Test Market and Specialty Approved Varieties - 1 Year Data (2017)

Specialty	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Cercospora Leaf Spot**		Rhizoctonia Root Rating**		Aphanomyces Root Rating**		Emergence (%)		Revenue per Ton*	Revenue per Acre*
	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	mean	% of mean

2018 Fully Approved Varieties - One Year of Data (% of Mean is of Approved Mean)

Beta 92RR30	APH	288.8	99.8	8748.1	88.5	16.5	99.4	93.5	100.3	30.2	91.7	4.5	103.6	4.6	95.8	3.5	82.8	72.3	98.4	99.6	87.9
Beta 9475	CLS	285.7	98.7	10199.9	103.1	16.4	98.9	93.1	99.9	35.7	105.6	3.7	84.9	4.2	87.5	4.5	106.4	76.9	104.6	97.4	101.6
Crystal M375		284.8	98.4	10093.7	102.1	16.4	98.9	92.8	99.6	35.6	102.0	4.6	105.8	5.5	114.6	5.1	120.8	72.6	98.8	96.8	100.6
Crystal M380		292.9	101.2	9896.8	100.1	16.7	100.7	93.5	100.4	34.0	96.8	4.9	112.4	4.9	102.1	3.5	83.4	72.7	98.9	102.4	101.6
Crystal M579		295.2	102.0	10505.9	106.2	16.9	102.1	93.0	99.8	35.7	103.9	4.1	93.3	4.8	100.0	4.5	106.7	73.0	99.3	103.9	108.3

Mean 289.5 100.0 9888.9 100.0 16.6 100.0 93.2 100.0 34.2 100.0 4.4 100.0 4.8 100.0 4.2 100.0 73.5 100.0 100.0 100.0

2018 Test Market Varieties - One Year of Data (% of mean is of Approved Mean)

Beta 9606		284.3	98.2	9574.5	96.8	16.3	98.6	93.0	99.8	33.8	98.7	3.9	88.6	3.0	62.5	4.4	104.6	72.9	99.2	96.7	95.4
Beta 9661		282.0	97.4	9856.5	99.7	16.1	97.4	93.3	100.1	35.1	102.4	4.4	100.0	3.6	75.0	4.1	96.7	71.3	97.0	94.9	97.2
Beta 9666		291.6	100.8	10568.2	106.9	16.8	101.4	92.7	99.5	36.4	106.4	3.9	88.6	4.9	102.1	4.6	109.7	77.1	104.9	101.6	108.2
Crystal M623		290.3	100.3	9806.3	99.2	16.6	99.9	93.5	100.3	33.9	98.9	4.0	90.9	3.2	66.7	4.8	114.8	73.4	99.8	100.4	99.3
SV RR863	CLS	285.1	98.5	10784.6	109.1	16.3	98.2	93.5	100.4	37.9	110.8	3.7	84.1	3.8	79.2	4.8	115.1	69.2	94.1	97.0	107.5
SV RR958		284.7	98.3	9707.0	98.2	16.3	98.3	93.3	100.2	34.1	99.6	4.5	102.3	4.1	85.4	4.4	104.5	75.7	103.0	96.9	96.5

2018 Specialty Approved Varieties - One Year of Data (% of mean is of Approved Mean)

Beta 9505	CLS	275.2	95.1	9446.8	95.5	15.9	95.8	92.8	99.6	34.7	101.3	3.9	88.6	3.5	72.9	4.1	97.6	73.3	99.7	90.5	91.7
Crystal RR018	RHC	284.7	98.3	9883.4	99.9	16.4	98.8	92.9	99.7	34.8	101.7	4.2	95.5	3.3	68.8	5.3	125.8	75.2	102.4	96.9	98.6
Hilleshog 9093RR	RHC	269.9	93.2	8673.8	87.7	15.7	94.8	92.1	98.8	32.4	94.7	4.4	100.0	3.3	68.8	4.8	114.1	70.6	96.1	86.7	82.1
Hilleshog 9739	RHC	272.2	94.0	8622.9	87.2	15.7	94.8	92.8	99.6	31.7	92.6	4.0	90.9	3.9	81.3	5.5	129.9	70.6	96.0	88.6	82.0
Maribo MA109RR	RHC	286.2	98.9	8991.0	90.9	16.5	99.4	92.8	99.6	31.5	92.0	4.4	100.0	3.1	64.6	5.3	125.5	73.7	100.3	97.8	90.0

2018 Conventional Test Market Varieties - One Year of Data (% of mean is of Approved Mean)

Hilleshog 3035RZ		273.5	94.5	9580.3	96.9	15.7	94.5	93.3	100.1	35.1	102.6	4.3	98.7	3.1	64.6	4.3	102.4	79.3	107.9	94.8	97.6
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*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 22, 2017 for the 1st 2017 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.