

Table 1. Comparison of 2019 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Three Years of Data (2016-2018)

	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	
2019 Fully Approved Varieties - Three Years of Data (% of Mean is of Approved Mean)																						
Beta 9475	CLS	270.9	99.5	9540.8	103.7	15.8	99.4	92.0	100.3	35.2	104.3	4.0	89.4	4.4	94.1	4.6	109.5	72.0	103.8	99.3	103.5	Beta 9475
Crystal M375		269.1	98.9	8994.2	97.8	15.8	99.4	91.5	99.8	33.3	98.7	4.7	105.0	4.9	104.8	4.7	111.9	66.3	95.6	97.5	96.2	Crystal M375
Crystal M380		269.6	99.1	8681.7	94.4	15.7	98.7	91.8	100.1	32.2	95.4	4.8	107.3	4.7	100.5	3.3	78.6	67.6	97.5	96.8	92.4	Crystal M380
Crystal M579		278.9	102.5	9568.6	104.0	16.3	102.5	91.6	99.9	34.3	101.6	4.4	98.3	4.7	100.5	4.2	100.0	71.5	103.1	106.4	108.2	Crystal M579
Mean		272.1	100.0	9196.3	100.0	15.9	100.0	91.7	100.0	33.8	100.0	4.5	100.0	4.7	100.0	4.2	100.0	69.4	100.0	100.0	100.0	Mean
2019 Specialty Approved Varieties - Three Years of Data (% of mean is of Approved Mean)																						
Beta 92RR30	APH	270.7	99.5	8439.9	91.8	15.8	99.4	91.6	99.9	31.1	92.1	4.4	98.3	4.6	98.4	3.3	78.6	70.6	101.8	97.8	90.2	Beta 92RR30
Beta 9505	CLS	259.5	95.4	8763.4	95.3	15.2	95.6	91.5	99.8	33.9	100.4	4.0	89.4	4.1	87.7	3.9	92.9	69.8	100.6	87.2	87.6	Beta 9505
Beta 9606	RHC	265.9	97.7	8801.0	95.7	15.6	98.1	91.5	99.8	33.1	98.1	4.3	96.1	3.6	77.0	4.0	95.2	70.6	101.8	94.1	92.3	Beta 9606
Crystal M509	CLS	258.7	95.1	10121.9	110.1	15.1	95.0	91.7	100.0	39.1	115.9	3.8	84.9	4.3	92.0	4.1	97.6	71.5	103.1	89.2	99.8	Crystal M509
Crystal M623	RHC	267.3	98.2	8905.6	96.8	15.6	98.1	91.8	100.1	33.3	98.7	4.2	93.9	3.5	74.9	4.3	102.4	72.7	104.8	95.1	93.8	Crystal M623
Crystal RR018	RHC	264.0	97.0	8633.3	93.9	15.6	98.1	91.2	99.4	32.6	96.6	4.4	98.3	3.7	79.1	4.7	111.9	70.6	101.8	93.0	89.8	Crystal RR018
Hilleshog 9739	RHC	259.3	95.3	8130.4	88.4	15.1	95.0	91.7	100.0	31.2	92.4	4.1	91.6	4.0	85.6	5.0	119.0	66.8	96.3	86.2	79.7	Hilleshog 9739
Maribo MA109RR	RHC	270.1	99.3	8484.7	92.3	15.7	98.7	91.7	100.0	31.5	93.3	4.2	93.9	3.6	77.0	4.9	116.7	68.9	99.4	96.5	90.0	Maribo MA109RR
SV RR862	CLS	265.8	97.7	9360.2	101.8	15.5	97.5	92.0	100.3	35.2	104.3	4.0	89.4	4.3	92.0	4.6	109.5	66.8	96.3	94.1	98.1	SV RR862
SV RR863	CLS	268.1	98.5	9485.2	103.1	15.6	98.1	92.0	100.3	35.3	104.6	3.8	84.9	4.2	89.8	4.6	109.5	66.0	95.2	95.8	100.2	SV RR863
2019 Conventional Test Market Varieties for Limited Sales - Three Years of Data (% of mean is of Approved Mean)																						
Hilleshog 3035RZ	Conv.	256.7	94.3	8454.9	91.9	15.1	95.0	91.5	99.8	32.9	97.5	(-)**	(-)	(-)**	(-)	(-)**	(-)	68.3	98.4	85.5	83.3	Hilleshog 3035RZ

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 28, 2018 for the 1st 2018 crop payment estimate.

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

*** Data not presented as variety not planted in the RoundUp Ready Nursery.

Table 2. Comparison of 2019 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Two Years of Data (2017-2018)

	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	mean	mean	
2019 Fully Approved Varieties - Two Years of Data (% of Mean is of Approved Mean)																						
Beta 9475	CLS	273.2	99.1	9799.9	102.5	15.9	98.9	91.8	100.2	35.9	103.3	4.0	89.5	4.4	94.1	4.3	104.7	74.7	103.9	97.0	100.3	Beta 9475
Crystal M375		272.2	98.7	9329.5	97.6	16.0	99.2	91.5	99.8	34.3	98.8	4.6	104.1	5.0	107.0	4.8	115.7	67.3	93.6	97.6	96.5	Crystal M375
Crystal M380		275.1	99.8	9178.0	96.0	16.0	99.6	91.8	100.1	33.5	96.3	4.9	109.5	4.7	100.5	3.2	77.8	71.7	99.7	98.7	95.2	Crystal M380
Crystal M579		282.4	102.4	9930.6	103.9	16.5	102.3	91.7	100.0	35.2	101.5	4.3	96.9	4.6	98.4	4.2	101.8	73.9	102.8	106.7	108.1	Crystal M579
Mean		275.7	100.0	9559.5	100.0	16.1	100.0	91.7	100.0	34.7	100.0	4.5	100.0	4.7	100.0	4.1	100.0	71.9	100.0	100.0	100.0	Mean
2019 Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Approved Mean)																						
Beta 9780	CLS	279.8	101.5	10286.8	107.6	16.3	101.4	92.0	100.3	36.8	106.0	3.8	84.4	4.7	100.5	4.4	107.1	72.4	100.7	104.4	110.6	Beta 9780
2019 Specialty Approved Varieties - Two Years of Data (% of mean is of Approved Mean)																						
Beta 92RR30	APH	274.3	99.5	8681.9	90.8	16.0	99.6	91.6	99.9	31.6	91.1	4.4	99.7	4.5	96.3	3.2	77.5	73.6	102.4	98.0	89.2	Beta 92RR30
Beta 9505	CLS	262.3	95.1	8954.3	93.7	15.3	95.1	91.3	99.6	34.3	98.8	4.0	89.4	3.9	83.4	3.7	91.1	72.6	100.9	85.4	84.3	Beta 9505
Beta 9606	RHC	270.9	98.2	9144.5	95.7	15.9	98.7	91.6	99.9	33.8	97.4	4.3	95.9	3.6	77.0	4.0	97.7	74.6	103.8	96.3	93.8	Beta 9606
Crystal M509	CLS	262.2	95.1	10453.8	109.4	15.3	95.1	91.7	100.0	39.9	114.9	3.8	84.6	4.3	92.0	4.2	101.0	74.7	103.9	86.7	99.6	Crystal M509
Crystal M623	RHC	273.2	99.1	9286.5	97.1	15.9	99.0	91.9	100.2	34.0	98.0	4.2	94.6	3.5	74.9	4.3	105.3	77.1	107.2	97.4	95.3	Crystal M623
Crystal RR018	RHC	268.4	97.4	9015.1	94.3	15.8	98.2	91.2	99.5	33.6	96.8	4.5	99.8	3.6	77.0	4.6	112.8	72.8	101.3	93.3	90.3	Crystal RR018
Hilleshog 9739	CLS	262.7	95.3	8494.2	88.9	15.2	94.7	91.7	100.0	32.2	92.7	4.1	92.0	4.1	87.7	5.2	126.4	72.0	100.1	85.0	78.9	Hilleshog 9739
Maribo MA109RR	RHC	273.1	99.0	8682.1	90.8	15.9	98.5	91.6	100.0	31.9	92.0	4.3	95.3	3.5	74.9	5.1	123.6	72.6	101.0	96.3	88.5	Maribo MA109RR
SV RR862	CLS	270.4	98.1	9939.6	104.0	15.7	97.4	92.1	100.4	36.8	106.1	4.1	92.4	4.2	89.8	4.5	108.3	71.4	99.3	94.7	100.4	SV RR862
SV RR863	CLS	271.2	98.3	9980.2	104.4	15.7	97.7	92.0	100.4	36.8	105.9	3.7	83.7	4.0	85.6	4.6	111.0	69.0	95.9	94.4	100.0	SV RR863
2019 Conventional Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Approved Mean)																						
Hilleshog 3035RZ	Conv.	260.3	94.4	8620.4	90.2	15.3	95.1	91.6	99.9	33.0	95.7	4.3	96.6	(-)***	(-)	4.7	113.9	69.3	96.4	86.4	82.2	Hilleshog 3035RZ
SV 48793	Conv.	264.0	95.7	9652.5	101.0	15.4	96.0	91.8	100.1	36.5	105.9	(-)***	(-)	(-)***	(-)	(-)***	(-)	76.4	106.3	89.4	93.9	SV 48793

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 28, 2018 for the 1st 2018 crop payment estimate.

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

*** Data not presented as variety not planted in the RoundUp Ready Nursery.

Table 3. Comparison of 2019 Fully Approved Varieties to Test Market and Specialty Approved Varieties - 1 Year Data (2018)

	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	mean	
2019 Fully Approved Varieties - One Year of Data (% of Mean is of Approved Mean)																						
Beta 9475	CLS	260.7	99.6	9399.8	105.1	15.4	98.9	90.6	100.4	36.1	105.6	4.3	93.0	4.6	103.4	4.2	107.8	72.5	103.6	98.1	103.5	Beta 9475
Crystal M375		259.6	99.2	8565.2	95.8	15.5	99.5	90.1	99.8	33.0	96.5	4.7	101.6	4.4	98.9	4.5	115.6	62.0	88.5	98.0	94.5	Crystal M375
Crystal M380		257.3	98.3	8459.2	94.6	15.4	98.9	90.0	99.7	32.9	96.2	4.9	105.9	4.4	98.9	2.9	75.3	70.7	101.0	95.7	92.1	Crystal M380
Crystal M579		269.7	103.0	9355.3	104.6	16.0	102.7	90.3	100.1	34.8	101.8	4.6	99.5	4.4	98.9	3.9	101.3	74.9	106.9	108.2	110.1	Crystal M579
Mean		261.8	100.0	8944.9	100.0	15.6	100.0	90.3	100.0	34.2	100.0	4.6	100.0	4.5	100.0	3.9	100.0	70.0	100.0	100.0	100.0	Mean
2019 Test Market Varieties - One Year of Data (% of mean is of Approved Mean)																						
Beta 9780	CLS	268.3	102.5	9823.7	109.8	16.0	102.7	90.7	100.5	36.7	107.3	4.1	88.6	4.7	105.6	4.2	108.4	70.5	100.7	109.9	117.9	Beta 9780
Hilleshog 2219		263.2	100.5	8528.2	95.3	15.5	99.5	90.5	100.3	32.4	94.7	4.1	88.6	4.1	92.1	5.0	129.0	74.0	105.7	99.6	94.3	Hilleshog 2219
Hilleshog 2220		256.9	98.1	7163.4	80.1	15.2	97.6	90.1	99.8	27.7	81.0	3.9	84.3	4.4	98.9	6.0	154.8	77.0	110.0	92.3	74.8	Hilleshog 2220
2019 Specialty Approved Varieties - One Year of Data (% of mean is of Approved Mean)																						
Beta 92RR30	APH	259.8	99.2	8615.6	96.3	15.6	100.2	89.7	99.4	33.1	96.8	4.4	95.1	4.5	101.1	2.9	74.8	74.9	107.0	98.2	95.1	Beta 92RR30
Beta 9505	CLS	249.4	95.3	8461.8	94.6	14.7	94.4	89.9	99.6	33.9	99.1	4.1	88.6	4.4	98.9	3.4	87.7	71.9	102.7	82.2	81.4	Beta 9505
Beta 9606	RHC	257.5	98.3	8714.5	97.4	15.4	98.9	90.2	99.9	33.9	99.1	4.7	101.6	4.1	92.1	3.7	95.5	76.4	109.1	96.5	95.7	Beta 9606
Crystal M509	CLS	250.0	95.5	10248.8	114.6	14.8	95.0	90.4	100.2	41.1	120.2	4.1	88.6	4.5	101.1	3.9	100.6	78.6	112.2	86.0	103.3	Crystal M509
Crystal M623	RHC	256.1	97.8	8766.8	98.0	15.3	98.2	90.3	100.1	34.2	100.0	4.5	97.3	3.9	87.6	3.9	100.6	80.7	115.2	95.0	95.0	Crystal M623
Crystal RR018	RHC	252.2	96.3	8146.7	91.1	15.2	97.6	89.6	99.3	32.4	94.7	4.7	101.6	4.0	89.9	4.0	103.2	70.4	100.5	90.4	85.6	Crystal RR018
Hilleshog 9739	CLS	253.2	96.7	8365.5	93.5	14.8	95.0	90.6	100.4	32.7	95.6	4.2	90.8	4.3	96.6	5.0	129.0	73.4	104.8	86.7	82.9	Hilleshog 9739
Maribo MA109RR	RHC	259.9	99.3	8373.1	93.6	15.2	97.6	90.5	100.3	32.4	94.7	4.1	88.6	3.9	87.6	4.9	126.5	71.6	102.2	93.9	89.0	Maribo MA109RR
SV RR862	CLS	258.7	98.8	9451.9	105.7	15.2	97.6	91.0	100.8	36.5	106.7	3.8	82.2	4.4	98.9	4.1	105.8	74.7	106.7	95.8	102.3	SV RR862
SV RR863	CLS	257.3	98.3	9175.8	102.6	15.2	97.6	90.5	100.3	35.6	104.1	3.8	82.2	4.3	96.6	4.3	111.0	68.8	98.3	93.9	97.8	SV RR863
2019 Conventional Varieties - One Year of Data (% of mean is of Approved Mean)																						
Hilleshog 3035RZ	Conv.	247.1	94.4	7660.4	85.6	14.9	95.7	89.9	99.6	30.9	90.4	4.2	90.8	(-)**	(-)**	5.1	131.6	59.2	84.6	85.9	77.6	Hilleshog 3035RZ
SV 48793	Conv.	248.0	94.7	8931.2	99.8	14.9	95.7	89.9	99.6	36.1	105.6	5.4	116.8	(-)**	(-)**	4.4	113.5	76.5	109.3	85.9	90.7	SV 48793
SV 48894	Conv.	237.7	90.8	8029.2	89.8	14.3	91.8	90.3	100.0	33.8	98.8	4.1	88.6	(-)**	(-)**	3.7	95.5	67.4	96.3	75.9	75.1	SV 48894

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