



2018 MICHIGAN DRY BEAN VARIETY RESEARCH SUMMARY

COUNTY & COOPERATOR: Bay: *Kevin & Lyle Wackerle Farm*
 Gratiot: *Hoard Farms*
 Huron: *Gentner-Bischer Farms*

Montcalm: *Grassley Farms*
 Sanilac: *Wadsworth Farms*
 Tuscola: *Bednarski Farms*

PLANTING DATES:			6/8	6/1		6/7		6/6		6/11		6/14		2018 AVE	WM	Lodge
NAVY	DAYS	ORIGIN	BAY	HURON		SANILAC		TUSCOLA		GRATIOT		MONTCALM		AVG-4 BHST	Rating	Rating
				Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score			
MEDALIST	102-110	COOP/ADM	1997	2721	3.4	3123	4.0	2724		2223		3505		2716-2641	2.1	2.5
MERLIN	104-110	COOP/ADM	2401	3276	3.1	3521	3.8	2840		2865		3405		3051-3009	2.0	2.0
T9905	99-108	TVS	1621	2498	3.7	3554	3.1	2334		2513		4021		2757-2502	2.7	3.0
EX 1703	98-106	TVS	1917	2409	2.7	3652	3.7	2376						2588	3.2	3.5
ALPENA	98-100	MSU								2593		3291			3.0	2.0
DS105WO	99-106	TVS	2411	2787	2.3	3352	2.9	2023		2293		2611		2580-2643	3.0	3.0
INDI	96-98	ADM	2242	2964	2.8	2632	3.0	2729						2642	1.8	1.5
REXETER	99-105	OAC-HDC	2013	2817	2.5	3071	2.1	2251						2538	3.1	2.5
NAUTICA	102-108	OAC-HDC	1990	2132	2.0	3205	2.4	2056						2345	1.8	2.0
MIST	102-108	OAC-HDC	2024	2756	1.5	2819	2.7	2888						2622	1.5	2.5
ARGOSY	102-106	OAC-HDC	2312	2906	1.5	3295	2.6	2725						2810	2.2	2.5
BLIZZARD	103-110	PROVITA	2256	2809	3.0	3258	3.7	2571						2723	2.3	1.5
APEX	103-107	TVS	2501	2670	2.5	3518	3.6	3144						2958	1.8	2.0
EX 1701	98-104	TVS	2485	2589	2.9	3411	3.5	2739						2806	2.6	2.5
EX 1702	99-105	TVS	2761	2910	2.5	3358	3.8	2950						2995	2.3	2.5
PROVITA 12039	99-105	PROVITA	2553	3115	2.9	3470	3.9	3027						3041	2.6	2.5
PROVITA 12047	101-108	PROVITA	3199	3605	2.5	3419	3.8	3353						3394	1.3	1.5
PROVITA 12062	100-107	PROVITA	1840	3232	3.3	3581	4.1	3238						2973	2.8	2.5
PROVITA 12063	98-104	PROVITA	2479	3308	4.2	3115	4.2	3198						3025	2.2	1.5
PROVITA 12064	100-106	PROVITA	2597	2980	3.0	3233	3.4	2362						2793	1.6	2.0
PROVITA 13058	97-104	PROVITA	1144	2914	2.4	2671	2.2	2760						2372	3.1	2.0
PROVITA 13066	100-106	PROVITA	1915	3403	2.3	3428	3.2	2779						2881	2.0	2.0
PROVITA 13068	100-108	PROVITA	2137	3433	2.9	3682	3.1	2945						3049	2.0	2.0
PROVITA 14068	101-108	PROVITA	1613	2897	2.3	3918	3.2	2599						2757	3.0	2.0
PROVITA 14069	101-107	PROVITA	2364	3004	2.5	3464	3.3	2560						2848	3.0	3.5
PROVITA 14078	102-109	PROVITA	1934	2562	2.9	3521	3.0	2733						2688	2.9	2.5
PROVITA 14081	100-106	PROVITA	2262	2843	1.5	2835	1.7	2855						2699	1.8	2.5
PROVITA 14084	96-104	PROVITA	2346	3413	3.6	3348	4.0	2749						2964	3.1	2.0
PROVITA 15094	96-103	PROVITA	2441	3653	3.5	3284	3.4	2989						3092	2.1	2.5
PROVITA 15095	102-108	PROVITA	2489	3126	3.2	4111	4.0	2799						3131	3.2	3.0
MSU N14229	99-106	MSU	1544	2622	2.8	3536	2.7	2067						2442	3.5	2.0
MSU N17504	100-106	MSU	2158	2375	3.0	3396	2.8	2148						2519	2.5	2.0
MSU N17506	100-106	MSU	1680	1726	2.3	3577	2.6	1877						2215	3.5	1.5
SV1893GH	104-108	SEMINIS	2225	3090	1.9	3272	2.9	2652						2810	2.0	2.5
MEAN			2177	2895		3352		2668		2497		3366		2773		
LSD(.05)			585	535		349		366		516		437		233		
CV%			22.9	15.7		8.9		11.7		16.4		10.3		14.4		

SMALL RED	DAYS	ORIGIN	BAY	HURON		SANILAC		TUSCOLA		GRATIOT		MONTCALM		2018	WM	Lodge
				Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score	AVG-4 BHST	Rating	Rating
MERLOT	94-103	USDA/MSU	2544	2765		3726	4.1	2332		2816				2842	3.5	3
VIPER	95-104	PROVITA	2894	3155		4685	3.3	2504		2776				3309	4	3
RUBY	94-103	PROVITA	2808	2790		4362	3.4	2104						3016	4	4
SR 11511	94-102	PROVITA	3124	3432		4005	2.7	2510						3267	2.5	3
CAYENNE	92-99	MSU	3450	3944		3807	4.8	2645		2998				3461	2	2
MSU R17603	95-104	MSU	3247	4354		4139	4.2	2907						3662	2	2.5
LSD(.05)			303	637		330		538		497				226		
CV%			8.1	15.1		6.5		17.4		12.6				11.7		

BLACK	DAYS	ORIGIN	BAY	HURON		SANILAC		TUSCOLA		GRATIOT		MONTCALM		2018 AVE	WM	Lodge
				Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score			
ZORRO	102-106	MSU	2492	2744	3.5	3804	3.7	1930		2710		4401		3014-2743	2.3	2.0
ZENITH	103-107	MSU	3068	2259	4.1	4027	3.8	2113	3.4	3085		4141		3116-2867	2.8	2.0
LORETO	104-109	COOP-PRO	2895	3177	3.2	3786	2.8	2181						3010	2.7	2.0
BLACK Cat	98-103	PROVITA	2312	2452	2.8	3975	3.3	2513						2813	3.6	2.0
BLACK Bear 12576	102-107	PROVITA	2669	2378	2.4	3958	2.6	1792						2699	3.3	2.0
BLACK Tails 13489	96-102	PROVITA	2739	2936	3.1	3701	3.5	2300						2919	3.8	1.5
BL 13505	97-103	PROVITA	2276	2374	3.0	4014	3.2	1903						2642	4.5	1.5
BL 14496	102-107	PROVITA	3455	3450	3.4	4394	3.0	2913						3553	2.8	2.0
BL 14497	102-108	PROVITA	3352	3507	3.2	4220	2.9	2683						3440	2.9	2.0
BL 14498	98-104	PROVITA	3138	3309	2.8	4129	3.0	2790						3341	2.2	2.0
BL 14500	99-104	PROVITA	3370	3655	2.9	4406	3.2	2771						3550	2.5	2.5
BL 14504	100-106	PROVITA	3340	3615	4.2	4200	4.4	3162						3579	2.7	2.0
BL 14505	101-106	PROVITA	2989	3350	3.6	4176	4.0	3235						3438	2.9	2.0
BL 14506	100-105	PROVITA	2972	3527	3.6	4358	4.7	2996						3463	2.8	2.0
BL 15610	101-106	PROVITA	2866	2317	2.8	3906	3.4	1979						2767	3.1	3.0
BL 15619	99-104	PROVITA	1835	2493	3.1	3977	3.9	2066						2593	4.3	2.5
MSU B16501	97-102	MSU	2448	3035	3.3	3729	4.4	2274						2872	2.6	2.0
MSU B16504	99-105	MSU	3066	3404	3.1	4199	3.0	2635						3326	3.0	2.0
MSU B17220	97-102	MSU	2363	3233	3.6	4091	3.5	2647						3084	2.5	2.0
MSU B17536	100-107	MSU	3154	2909	3.3	4105	3.8	2107						3069	3.2	2.0
MSU B17691	99-104	MSU	2410	2658	3.2	4166	3.7	2286						2880	3.0	2.0
MSU B17922	100-105	MSU	2742	3260	3.3	3929	3.6	2591						3130	3.3	2.0
USDA BL1401-15	99-104	USDA/MSU				4113	3.0	2708								2.0
ADM B8006282	96-100	ADM				3462	3.0	2569	3.2							2.0
ADM B1048276	96-101	ADM				3498	2.6	2630	2.3							2.0
ADM B3036368	96-99	ADM				3426	3.0	2936	2.1							2.0
ADM B5054341	97-102	ADM				3184	2.0	2366	2.5							2.0
ECLIPSE	96-100	NDSU				3227	3.1	2274								1.5
B18504	102-106	MSU	2641	3173	2.7	4781	3.4	2166						3190	3.3	2.0
HU Zenith	102-106	MSU	3062	2759		3948		1905						2918	3.0	2.0
MEAN			2819	2999		3963		2447		2897		4271		3205		
LSD(.05)			466	598		314		411		437		940		227		
CV%			14.0	16.9		6.7		14.3		9.1		13.2		12.7		

PINTO	DAYS	ORIGIN	BAY	HURON		SANILAC		TUSCOLA		GRATIOT		MONTCALM		2018 AVE	WM	Lodge
				Yield	Can score	Yield	Can score	Yield	Can score	Yield	Can score	Yield	Can score			
ELDORADO	101-104	MSU	2786	3134	2.8					3146		4405		3368	2.0	2.5
LA PAZ	96-101	PROVITA	2642	2961	2.9					2945		4678		3306	4	2.5
MSU P16901	98-102	MSU	2942	3060	3.6					3180		4846		3507	2.5	2.0
MSU P17510	98-103	MSU	2761	3316	3.8					3162		4817		3514	2.5	2.0
PALOMINO	100	NDSU		2538	3.3										3.0	3.3
MONTERREY	96	PROVITA		3150	2.9										3.0	2.0
SANTA CRUZ	94	PROVITA		2297	3.1										4.0	2.0
SINALOA	95	PROVITA		2642	2.6										3.5	2.0
ISLAND	94	VITERRA		2334	3.4										4.0	3.0
WINDBREAKER	91	SEMINIS		2129	3.4										3.0	3.0
ROUGH RIDER	92	SEMINIS		1961	2.5										3.0	2.0
LSD(.05)			252	582						619		771		265		
CV%			7.0	17.5						15.4		12.7		13.0		

GREAT NORTHERN	DAYS	ORIGIN	BAY	HURON		SANILAC		TUSCOLA		GRATIOT		MONTCALM		2018 AVE	WM	Lodge
				Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score	Yield	Can Score			
POWDERHORN	90-92	MSU	2578			3150	3.0	2564						2764	2.5	2.0
MSU G16351	95-97	MSU	2175			4182	3.6	2695						3017	3.0	2.0
MSU G17410	94-97	MSU	2529			3788	3.2	2937						3085	3.0	2.0
ARIES GN	90-93	PROVITA	1767			3469	3.2	2636						2624	3.5	2.0
LSD(.05)			428			374		708						281		
CV%			14.6			7.9		20.2						14.1		

TEBO	DAYS	ORIGIN	BAY	HURON	SANILAC	TUSCOLA	GRATIOT	MONTCALM	BT AVG	WM	Lodge
SAMURAI	103-105	MSU	2269			2217			2243	3.0	2.0
G17913	100-102	MSU	1731			1765			1748	3.5	3.0
LSD(.05)			513			751			375		
CV%			15.4			22.7			19.4		

<u>PINK</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>		<u>TUSCOLA</u>	<u>GRATIOT</u>	<u>MONTCALM</u>		<u>BST AVG</u>	<u>WM</u>	<u>Lodge</u>
					<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>		<u>Yield</u>	<u>Can Score</u>		<u>Rating</u>	<u>Rating</u>
ROSETTA PINK	94-97	MSU	2838				3766	3.3	2703		3102	2.5	2.0
S17706	94-98	MSU	2279				3903	1.9	2149		2777	2.5	2.0
LSD(.05)			258				659		444		217		
CV%			6.1				10.3		11.0		9.9		

<u>CRANBERRY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>		<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>
					<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>	
ETNA	87-90	SEMINIS							2889	2915	2.2	2902
CHIANTI vine	94-98	SEMINIS							2974	3432	2.0	3203
BELLAGIO vine	97-100	MSU							3127	3749	2.7	3438
VERO	88-90	ADM								3081	2.4	
CR 151084	101-103	PROVITA							2865	4040	1.3	3453
CR 151085	101-104	PROVITA							3188	4231	1.3	3709
CR 151093	101-103	PROVITA							3569	3358	1.7	3463
CR 151106	92-94	PROVITA							2782	2979	2.4	2880
CR 16760	90-91	PROVITA							3509	3124	2.4	3317
CR 16761	90-92	PROVITA							3141	3576	1.7	3359
CR 16764	93-94	PROVITA							3007	2267	2.1	2637
CR 16766	93-94	PROVITA							3045	2398	2.3	2722
USDA CR1502-3	102-104	USDA/MSU							2678	2962	2.7	2820
USDA CR1503-1	103-104	USDA/MSU							2691	3024	3.8	2858
USDA CR1506-1	104-105	USDA/MSU							2833	2750	3.3	2792
LSD(.05)									344	679		377
CV%									9.8	18.1		14.8

<u>LIGHT RED KIDNEY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>		<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>	
					<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>		
CALIF ELRK	90-92	CAL							2137	1.2	2717	2.6	2427
CLOUSEAU	94-95	SEMINIS							2526	2.6	3403	3.0	2964
INFERNO	104-106	OAC-HDC							3208	2.4	4629	2.4	3919
MSU K15601	96-97	MSU							2449		4164	2.0	3306
MSU K16640	97-98	MSU							2410	3.0	4168	2.6	3289
MSU K17703	97-98	MSU							2782	2.5	4619	2.6	3700
ROSIE	98-100	NDSU							2301	1.7	3633	1.6	2967
BIG RED	90-92	PROVITA							2071	2.0	2864	2.6	2468
LRK 06269	98-99	PROVITA							2224	2.4	4377	3.3	3300
Ronnie's Red 09360	105-107	PROVITA							2756	2.3	4462	1.7	3609
LRK 09363	88-91	PROVITA							2212	3.0	3327	2.0	2770
LRK 15898	106-107	PROVITA							2576	2.2	3784	2.3	3180
LRK 15907	106-108	PROVITA							2699	3.0	3477	2.9	3088
LRK 15926	105-108	PROVITA							2490	2.6	3622	3.7	3056
LSD(.05)									388		512		323
CV%									13.1		11.6		12.4

<u>DARK RED KIDNEY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>		<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>	
					<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>		
RED HAWK	96-98	MSU							2405	4.2	3784	3.9	3095
MONTCALM	100-102	MSU							2129	3.3	3949	3.2	3039
RED ROVER	92-95	SEMINIS							2248	3.9	3374	4.1	2811
DYNASTY	100-102	OAC-HDC							2776	3.1	4321	2.6	3548
RED CEDAR	93-96	MSU							2428	4.5	3447	3.6	2937
MSU K16131	99-102	MSU							2403	3.1	3554	2.3	2978
MSU K16136	97-100	MSU							2699	4.3	3858	4.2	3279
MSU K17206	97-100	MSU							2136	3.5	2611	4.4	2374
GTS 104	98-103	GTS							2408	3.2	3759	2.2	3083
TALON	98-101	NDSU							2230	2.8	3480	2.7	2855
CHAPARRAL	102-105	PROVITA							2278	2.8	3965	2.8	3121
EPIC 09430	103-105	PROVITA							2512	3.3	3618	3.3	3065
DRK 09431	104-106	PROVITA							2514	2.4	4432	2.4	3473
DRK 09433	101-103	PROVITA							2441	2.6	3259	3.4	2850
RAMPART 09434	100-102	PROVITA							2521	2.7	3720	2.9	3120
DRK 11479	98-100	PROVITA							2823	2.8	3296	2.5	3059
DRK 15978	104-106	PROVITA							2602	2.8	4212	2.8	3407
DRK 15979	102-103	PROVITA							2153	2.5	4145	3.1	3149
DRK 15981	104-106	PROVITA							2826	3.6	3693	3.3	3259
DRK 151011	98-101	PROVITA							2754	3.0	3842	3.1	3298
DRK 151021	99-101	PROVITA							2726	2.8	3245	2.2	2986

LSD(.05)							297	478	279
CV%							10.2	10.9	10.9

	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>
							<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>	
BELUGA	103-104	MSU					2385	3.2	3266	1.5	2825
SNOWDON	90-92	MSU					2754	2.1	2755	1.1	2754
MSU K15901	91-92	MSU					3053	1.7	3353	1.7	3203
MSU K16924	91-92	MSU					2589	1.7	3709	1.7	3149
MSU K16957	98-100	MSU					2810	3.6	3552	2.3	3181
MSU K17804	102-103	MSU					2734	2.9	3974	2.5	3354
COB-228-03	94-95	GTS					2698	2.0	3509	2.0	3103
YETI	103-105	HDC					2543	2.1	3798	1.8	3171
LSD(.05)							329		338		231
CV%							10.0		8.0		8.9

	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>
							<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>	
SVS 0863	104	SEMINIS					2811		2819		2815
Y16503	101	MSU					2951		3882		3417
LSD(.05)							519		1314		583
CV%							10.8		23.6		19.3

	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>HURON</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>GRATIOT</u>		<u>MONTCALM</u>		<u>GM AVG</u>
							<u>Yield</u>	<u>Can Score</u>	<u>Yield</u>	<u>Can Score</u>	
ERIMO	102	JAPAN					1617				

ORIGIN KEY

ADM - Archer Daniels Midland-Seedwest
 CAL - University of California, Davis
 COOP - Cooperative Elevator Company
 GTS - Gen-Tec Seeds LTD
 JAPAN - Japan Foods - Purity Foods
 MSU - Michigan State University
 NDSU - North Dakota State University
 OAC-HDC - University of Guelph-Hensall Co-op
 PROVITA - Provita Seeds
 SEMINIS - Seminis Seeds - Monsanto
 TVS - Treasure Valley Seed Company
 USDA - US Department of Ag - ARS
 VITERRA - Alberta/Manitoba Dry Bean Company

Maturity days = planting until harvest in 2018
 Direct Cut Lodging Rating = 1-erect, 5-laying flat on ground
 WM=White Mold Rating = 1-10% mold, 5-100% mold
 White Mold Rating from Huron and Bay Counties
 Black, Navy, Pinto and Small Red beans were direct harvested
 Large seeded colored beans were hand pulled and harvested

Contact Information

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