



## 2018 MICHIGAN DRY BEAN TRIALS

COUNTY & COOPERATOR: Bay: *Kevin & Lyle Wackerle Farm* Montcalm: *Grassley Farms*  
 Gratiot: *Hoard Farms* Sanilac: *Wadsworth Farms*  
 Huron: *Gentner-Bischer Farms* Tuscola: *Bednarski Farms*

**PLANTING DATES:**

6/8      6/1      6/7      6/6      6/11      6/14

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

<u>SMALL RED</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>AVG-4 BHST</u>	<u>WM Rating</u>	<u>Lodge Rating</u>
MERLOT	94-103	USDA/MSU	2544	2765	3726	2332	2816		2842	3.5	3
VIPER	95-104	PROVITA	2894	3155	4685	2504	2776		3309	4	3
RUBY	94-103	PROVITA	2808	2790	4362	2104			3016	4	4
SR 11511	94-102	PROVITA	3124	3432	4005	2510			3267	2.5	3
<u>CAYENNE</u>	92-99	MSU	3450	3944	3807	2645	2998		3461	2	2
MSU R17603	95-104	MSU	3247	4354	4139	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		

<u>BLACK</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>2018 AVE AVG-4 BHST</u>	<u>WM Rating</u>	<u>Lodge Rating</u>
ZORRO	102-106	MSU	2492	2744	3804	1930	2710	4401	3014-2743	2.3	2.0
ZENITH	103-107	MSU	3068	2259	4027	2113	3085	4141	3116-2867	2.8	2.0
LORETO	104-109	COOP-PRO	2895	3177	3786	2181			3010	2.7	2.0
BLACK Cat	98-103	PROVITA	2312	2452	3975	2513			2813	3.6	2.0
BLACK Bear 12576	102-107	PROVITA	2669	2378	3958	1792			2699	3.3	2.0
BLACK Tails 13489	96-102	PROVITA	2739	2936	3701	2300			2919	3.8	1.5
BL 13505	97-103	PROVITA	2276	2374	4014	1903			2642	4.5	1.5
BL 14496	102-107	PROVITA	3455	3450	4394	2913			3553	2.8	2.0
BL 14497	102-108	PROVITA	3352	3507	4220	2683			3440	2.9	2.0
BL 14498	98-104	PROVITA	3138	3309	4129	2790			3341	2.2	2.0
BL 14500	99-104	PROVITA	3370	3655	4406	2771			3550	2.5	2.5
BL 14504	100-106	PROVITA	3340	3615	4200	3162			3579	2.7	2.0
BL 14505	101-106	PROVITA	2989	3350	4176	3235			3438	2.9	2.0
BL 14506	100-105	PROVITA	2972	3527	4358	2996			3463	2.8	2.0
BL 15610	101-106	PROVITA	2866	2317	3906	1979			2767	3.1	3.0
BL 15619	99-104	PROVITA	1835	2493	3977	2066			2593	4.3	2.5
<u>MSU B16501</u>	97-102	MSU	2448	3035	3729	2274			2872	2.6	2.0
<u>MSU B16504</u>	99-105	MSU	3066	3404	4199	2635			3326	3.0	2.0
MSU B17220	97-102	MSU	2363	3233	4091	2647			3084	2.5	2.0
MSU B17536	100-107	MSU	3154	2909	4105	2107			3069	3.2	2.0
MSU B17691	99-104	MSU	2410	2658	4166	2286			2880	3.0	2.0
MSU B17922	100-105	MSU	2742	3260	3929	2591			3130	3.3	2.0
USDA BL1401-15	99-104	USDA/MSU			4113	2708					2.0
ADM B8006282	96-100	ADM			3462	2569					2.0
ADM B1048276	96-101	ADM			3498	2630					2.0
ADM B3036368	96-99	ADM			3426	2936					2.0
ADM B5054341	97-102	ADM			3184	2366					2.0
ECLIPSE	96-100	NDSU			3227	2274					1.5
B18504	102-106	MSU	2641	3173	4781	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		

<u>PINTO</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>AVG BHGM</u>	<u>WM Rating</u>	<u>Lodge Rating</u>
ELDORADO	101-104	MSU	2786	3134			3146	4405	3368	2.0	2.5
LA PAZ	96-101	PROVITA	2642	2961			2945	4678	3306	4	2.5
MSU P16901	98-102	MSU	2942	3060			3180	4846	3507	2.5	2.0
MSU P17510	98-103	MSU	2761	3316			3162	4817	3514	2.5	2.0
PALOMINO	100	NDSU		2538						3.0	3.3
MONTERREY	96	PROVITA		3150						3.0	2.0
SANTA CRUZ	94	PROVITA		2297						4.0	2.0
SINALOA	95	PROVITA		2642						3.5	2.0
ISLAND	94	VITERRA		2334						4.0	3.0
WINDBREAKER	91	SEMINIS		2129						3.0	3.0
ROUGH RIDER	92	SEMINIS		1961						3.0	2.0
LSD(.05)			252	582			619	771	265		
CV%			7.0	17.5			15.4	12.7	13.0		

<u>GREAT NORTHERN</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 Rating</u>	<u>Lodge Rating</u>
POWDERHORN	90-92	MSU	2578		3150	2564			2764	2.5	2.0
MSU G16351	95-97	MSU	2175		4182	2695			3017	3.0	2.0
MSU G17410	94-97	MSU	2529		3788	2937			3085	3.0	2.0
ARIES GN	90-93	PROVITA	1767		3469	2636			2624	3.5	2.0
LSD(.05)			428		374	708			281		
CV%			14.6		7.9	20.2			14.1		

<u>TEBO</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>BT AVG</u>	<u>WM Rating</u>	<u>Lodge Rating</u>
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>SANILAC</u>	<u>TUSCOLA</u>	<u>BST AVG</u>	<u>WM Rating</u>	<u>Lodge Rating</u>
ROSETTA PINK	94-97	MSU	2838	3766	2703	3102	2.5	2.0
S17706	94-98	MSU	2279	3903	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>GRATIOT</u>	<u>MONTCALM</u>	<u>GM AVG</u>
ETNA	87-90	SEMINIS	2889	2915	2902
CHIANTI vine	94-98	SEMINIS	2974	3432	3203
BELLAGIO vine	97-100	MSU	3127	3749	3438
VERO	88-90	ADM		3081	
CR 151084	101-103	PROVITA	2865	4040	3453
CR 151085	101-104	PROVITA	3188	4231	3709
CR 151093	101-103	PROVITA	3569	3358	3463
CR 151106	92-94	PROVITA	2782	2979	2880
CR 16760	90-91	PROVITA	3509	3124	3317
CR 16761	90-92	PROVITA	3141	3576	3359
CR 16764	93-94	PROVITA	3007	2267	2637
CR 16766	93-94	PROVITA	3045	2398	2722
USDA CR1502-3	102-104	USDA/MSU	2678	2962	2820
USDA CR1503-1	103-104	USDA/MSU	2691	3024	2858
USDA CR1506-1	104-105	USDA/MSU	2833	2750	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>GRATIOT</u>	<u>MONTCALM</u>	<u>GM AVG</u>
CALIF ELRK	90-92	CAL	2137	2717	2427
CLOUSEAU	94-95	SEMINIS	2526	3403	2964
INFERNO	104-106	OAC-HDC	3208	4629	3919
MSU K15601	96-97	MSU	2449	4164	3306
MSU K16640	97-98	MSU	2410	4168	3289
MSU K17703	97-98	MSU	2782	4619	3700
ROSIE	98-100	NDSU	2301	3633	2967
BIG RED	90-92	PROVITA	2071	2864	2468
LRK 06269	98-99	PROVITA	2224	4377	3300
Ronnie's Red 09360	105-107	PROVITA	2756	4462	3609
LRK 09363	88-91	PROVITA	2212	3327	2770
LRK 15898	106-107	PROVITA	2576	3784	3180
LRK 15907	106-108	PROVITA	2699	3477	3088
LRK 15926	105-108	PROVITA	2490	3622	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>GRATIOT</u>	<u>MONTCALM</u>	<u>GM AVG</u>
RED HAWK	96-98	MSU	2405	3784	3095
MONTCALM	100-102	MSU	2129	3949	3039
RED ROVER	92-95	SEMINIS	2248	3374	2811
DYNASTY	100-102	OAC-HDC	2776	4321	3548
RED CEDAR	93-96	MSU	2428	3447	2937
MSU K16131	99-102	MSU	2403	3554	2978
MSU K16136	97-100	MSU	2699	3858	3279
MSU K17206	97-100	MSU	2136	2611	2374
GTS 104	98-103	GTS	2408	3759	3083
TALON	98-101	NDSU	2230	3480	2855
CHAPARRAL	102-105	PROVITA	2278	3965	3121
EPIC 09430	103-105	PROVITA	2512	3618	3065
DRK 09431	104-106	PROVITA	2514	4432	3473
DRK 09433	101-103	PROVITA	2441	3259	2850
RAMPART 09434	100-102	PROVITA	2521	3720	3120
DRK 11479	98-100	PROVITA	2823	3296	3059
DRK 15978	104-106	PROVITA	2602	4212	3407
DRK 15979	102-103	PROVITA	2153	4145	3149
DRK 15981	104-106	PROVITA	2826	3693	3259
DRK 151011	98-101	PROVITA	2754	3842	3298
DRK 151021	99-101	PROVITA	2726	3245	2986
LSD(.05)			297	478	279
CV%			10.2	10.9	10.9

<u>WHITE KIDNEY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>	<u>GM AVG</u>
BELUGA	103-104	MSU	2385	3266	2825
SNOWDON	90-92	MSU	2754	2755	2754
MSU K15901	91-92	MSU	3053	3353	3203
MSU K16924	91-92	MSU	2589	3709	3149
MSU K16957	98-100	MSU	2810	3552	3181
MSU K17804	102-103	MSU	2734	3974	3354
COB-228-03	94-95	GTS	2698	3509	3103
YETI	103-105	HDC	2543	3798	3171
LSD(.05)			329	338	231
CV%			10.0	8.0	8.9

<u>YELLOW</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>	<u>GM AVG</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>ADZUKI</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</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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2018 White Mold Trials--Merrill  
 Greg Varner Michigan Bean Commission

Treatment	Product	Applications	Rate	(1-9)		Yield	
				Visual Rating	% Infection	Pounds/Acre	Bushels/Acre
1	UTC			4	38	3096	51.6
7	Propulse	2	10.3 oz	2	14	4100	68.3
8	Endura	2	8 oz	2	15	3897	65.0
9	Omega	2	8 oz	2	13	3688	61.5
10	Heads Up	Seed Treatment	Rec.	4	41	3154	52.6
11	Endura+Priaxor	2	10.3 oz	2	16	4106	68.4
12	Endura+Serifel	2	8 oz	2	16	3610	60.2
17	Propulse	1	8 oz	2	18	3775	62.9
18	Endura	1	8 oz	2	15	3682	61.4
19	Omega	1	8 oz	2	19	3592	59.9
22	Omega+Endura	1+1	8+8 oz	2	17	3950	65.8
23	Aproach+Endura	1+1	12+8 oz	2	16	3968	66.1
24	Omega+Propulse	1+1	8+8 oz	2	15	3924	65.4
			LSD=.05	0.99	11.66	639	10.7
			CV=	28.23%	39.96%	12.50%	12.50%

2018 White Mold Trials--MRC  
 Greg Varner Michigan Bean Commission

Treatment	Product	Applications	Rate	(1-9)		Yield	
				Visual Rating	% Infection	Pounds/Acre	Bushels/Acre
1	UTC			4	48	2728	45.5
7	Propulse	2	10.3 oz	2	23	3035	50.6
8	Endura	2	8 oz	3	29	2937	49.0
9	Omega	2	8 oz	2	23	2893	48.2
11	Endura+Priaxor	2	10.3 oz	2	25	2880	48.0
12	Endura+Serifel	2	8 oz	2	22	3300	55.0
17	Propulse	1	8 oz	3	25	3079	51.3
18	Endura	1	8 oz	2	20	2976	49.6
19	Omega	1	8 oz	3	26	2778	46.3
22	Omega+Endura	1+1	8+8 oz	2	21	3252	54.2
23	Aproach+Endura	1+1	12+8 oz	2	24	3431	57.2
24	Omega+Propulse	1+1	8+8 oz	2	21	3420	57.0
			LSD=.05	1.2	13	607	10.1
			CV=	31.40%	30.57%	14.56%	14.56%