



2016 MICHIGAN DRY BEAN TRIALS

Compiled by Gregory V. Varner, Dry Bean Research Director

COUNTY & COOPERATOR:

Bay: *Frank Farms*
 Gratiot: *Hrabal Farms*
 Huron: *Gruehn Farms*

Montcalm: *Ek Farms*
 Sanilac: *Keinath Farms*
 Tuscola: *VanHoost Farms*

2016 PLANTING DATES:

6/2 6/17 5/31 6/14 6/3 6/11

<u>NAVY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>2016 AVE 6-4 LOC</u>	<u>Lodging Rating</u>
HMS MEDALIST	95-100	COOP/ADM	1625	3043	828	3894	3748	1209	2391-1853	2
MERLIN	95-102	COOP/ADM	2425	3374	1157	4027	3768	1589	2723-2235	2.5
T9905	94-99	TVS	2002	3006	720	3936	4065	1483	2535-2068	2.5
INDI	92-95	ADM	1805	3081	557	3595	3677	1210	2321-1812	2
ALPENA	94-100	MSU	2005	3313	889	3583	3758	1833	2564-2121	2.5
GTS OB-1723-03	97-103	GTS	1947	3292	801	3367	3671	1368	2408-1947	3
DS105WO	95-101	TVS	1717	3326	784	3607	3748	1537	2453-1947	3.5
VIGILANT	91-99	PROVITA	2467		707		3585	1866	2156	1.5
REXETER	92-101	OAC-HDC	2532		659		4195	1421	2202	2.5
NAUTICA	94-99	OAC-HDC	1877		851		3802	1508	2010	3
MIST	93-104	OAC-HDC	2169		670		4120	1253	2053	2.5
FATHOM	92-100	OAC-HDC	1734		985		3408	1275	1851	2.5
PROVITA 06063	92-97	PROVITA	2227		843		3933	1818	2205	2.5
PROVITA 08070	90-99	PROVITA	1984		818		3989	1614	2101	2.5
PROVITA 08072	94-101	PROVITA	1981		894		3676	1446	1999	2.5
PROVITA 12039	92-97	PROVITA	2178		860		3673	1929	2160	3
PROVITA 12047	91-94	PROVITA	2281		1181		3065	1569	2024	2
PROVITA 12051	90-96	PROVITA	1987		608		2468	1380	1611	3.5
PROVITA 12062	92-100	PROVITA	2030		1077		3602	1538	2062	2.5
PROVITA 12063	92-103	PROVITA	1790		1009		3373	1655	1957	2.5
PROVITA 12064	95-102	PROVITA	1665		801		3782	2096	2086	2
PROVITA 13049	92-101	PROVITA	2375		861		3589	1486	2078	2.5
PROVITA 13066	94-99	PROVITA	1725		869		3670	1658	1981	1.5
PROVITA 13068	94-102	PROVITA	1608		821		4338	1437	2051	2
MSU N14218	95-99	MSU	2149		954		3555	2009	2167	3.5
MSU N14229	93-96	MSU	2139		1170		3321	1870	2125	3.5
MSU N15341	91-94	MSU	2134		836		3138	1880	1998	2.5
MSU N15345	96-98	MSU	1538		1031		3006	1676	1813	3
SV 1893GH	93-101	SEMINIS			759		2788	1845		3
			lsd=514	lsd=783	lsd=197	lsd=615	lsd=563	lsd=425		
			cv-18.3%	cv-16.4%	cv-16.2%	cv-11.2%	cv-10.0%	cv-11.1%		

									White Mold - Lodging	
<u>SMALL RED</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>2016 AVE 3 LOC</u>	<u>Rating</u>
MERLOT	90-94	USDAMSU	2391		1457		3801		2550	3-3.5
VIPER SR 09303	90-98	PROVITA	3119		1529		4445		3031	3.5-3.8
RUBY SR 09304	90-98	PROVITA	2723		1885		4149		2919	3-4.0
SR 11511	90-99	PROVITA	1009		1390		4332		2244	2-3.0
MSU R12844	93-96	MSU	2294		1298		4839		2810	2-2.5
MSU R13752	90-94	MSU	2374		1215		4188		2592	2-2.8
<u>PINK-ROSETTA</u>	94-95	MSU	2889							2.5-2.5
			lsd=664 cv-17.7%		lsd=405 cv-18.2%		lsd=811 cv-12.5%	lsd=604 cv-17.5%		

									2016 AVE Lodging	
<u>BLACK</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>6-4 LOC</u>	<u>Rating</u>
ZORRO	92-103	MSU	2211	3505	744	4197	3305	1668	2605-1982	2.5
ZENITH	92-103	MSU	2293	4022	842	4059	3506	2281	2834-2231	2.5
LORETO	92-102	COOP-PRO	2192	2997	646		3182	1805	1956	3
SHANIA	94-103	ADM	1895	3443	640		3354	1543	1858	3
ECLIPSE	88-94	NDSU	1964		583		3790	1552	1972	2.5
BLACK CAT	92-98	PROVITA	2336		912		3408	2069	2181	3.5
BL 12576	93-102	PROVITA	2568		1079		4147	1953	2437	2.5
BL 13489	90-99	PROVITA	2171		647		4152	1750	2180	2.5
BL 13490	92-103	PROVITA	1820		1235		3657	1524	2059	2
BL 13496	89-102	PROVITA	2256		843		3679	1619	2099	2.5
BL 14497	91-102	PROVITA	2952		1173		4149	2270	2636	2
BL 14504	94-99	PROVITA	2265		1246		3528	1919	2240	2.5
BL 14506	91-101	PROVITA	2075		1181		3624	1699	2145	2
BL 14510	92-102	PROVITA	1309		442		3592	1513	1714	2.5
BL 14522	91-100	PROVITA	2168		727		3435	2000	2083	2
MSU B15408	91-96	MSU	2651		742		3637	1931	2240	3
MSU B15418	94-103	MSU	2098		835		3721	1759	2103	2.5
MSU B15430	91-98	MSU	2394		1043		3819	2131	2347	2.5
MSU B15434	91-103	MSU	2215		720		3703	1821	2115	2.5
MSU B15451	92-100	MSU	2460		765		3546	2049	2205	1.5
ADM B8006282	90-99	ADM	2521				3464	1459		2.5
ADM B0040316	91-100	ADM	2196				3885	1646		1.5
ADM B1048276	90-103	ADM	2077				3655	1494		2.5
ADM B1048280	90-103	ADM	2025				4184	1789		2.5
SV6894GB	93-100	SEMINIS			755		3849	1821		1.5
			lsd=719 cv-23.0%	lsd=776 cv-13.9%	lsd=215 cv-18.6%		lsd=648 cv-12.5%	lsd=518 cv-20.5%		

									White Mold - Lodging	
<u>PINTO</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>4 LOC</u>	<u>Rating</u>
ELDORADO	92-103	MSU	2278	3435		3651	4010		3344	2-2.0
LA PAZ	88-93	PROVITA	2097	3593		3430	3897		3254	3.5-2
MSU P14815	90-94	MSU	1916	3181		3491	3205		2948	2-2.0
EL DIABLO	87-93	GTS	1912	2898		3522	3106		2860	2-2.5
SV6533GR	85-88	SEMINIS	2440	2272						2.5
SV6139GR	85-88	SEMINIS	2288	2906						2.5

PALOMINO	91-99	NDSU	1910	2743						3.5
CO SD 44	89-94	CSU	2464	2971						2.5
			lsd=277	lsd=582		lsd=1096	lsd=781			
			cv-8.5%	cv-12.9%		cv-19.4%	cv-13.7%			

**White Mold
- Lodging**

<u>GREAT NORTHERN</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>3 LOC</u>	<u>Rating</u>
POWDERHORN	86-88	MSU	2763		421	4103			2429	3-3.0
MSU G13444	88-90	MSU	2854		771	4314			2646	2.5-2
MSU G14506	90-92	MSU	2962		1004	4629			2865	4-2.5
			lsd=413		lsd=130	lsd=976				
			cv-8.3%		cv-10.3%	cv-13.0%				

**White Mold
- Lodging**

<u>TEBO</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>BAY</u>	<u>GRATIOT</u>	<u>HURON</u>	<u>MONTCALM</u>	<u>SANILAC</u>	<u>TUSCOLA</u>	<u>3 LOC</u>	<u>Rating</u>
FUJI	90-95	MSU	1858	1689		3648			2398	3-3.0
SAMURAI	92-100	MSU	2829	2849		4758			3479	3-2.5
MSU G14505	90-98	MSU	2454	3326		4761			3514	3-2.5
			lsd=426	lsd=456		lsd=1614				
			cv-10.3%	cv-10.1%		cv-21.3%				

ADZUKI

ERIMO	101-103	JAPAN		2028		2104				
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CRANBERRY

<u>CRANBERRY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>
ETNA	90-92	SEMINIS	2382	4319
CHIANTI vine	98-100	SEMINIS	2489	3738
BELLAGIO vine	100-102	MSU	2937	3715
MSU C13413	91-93	MSU	2176	3864
KRIMSON	93-94	BASIN	2329	3871
			lsd=514	lsd=938
			cv-13.5%	cv-15.6%

LIGHT RED KIDNEY

<u>LIGHT RED KIDNEY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>
CALIF ELRK	90-93	CAL	2077	4004
CLOUSEAU	91-94	SEMINIS	2219	3975
INFERNO	110-114	OAC-HDC	3287	3265
MSU K15601	105-106	MSU	3441	4506
ROSIE ND 061106	102-105	NDSU	2650	2892
BIG RED 09351	91-94	PROVITA	2197	3806
LRK 06269	105-106	PROVITA	2795	3444
LRK 09378	91-93	PROVITA	2507	3825
			lsd=447	lsd=713
			cv-11.5%	cv-13.1%

<u>DARK RED KIDNEY</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>
RED HAWK	94-99	MSU	1974	3560
MONTCALM	105-107	MSU	1735	3131
RED ROVER	92--97	SEMINIS	1955	3681
DYNASTY	102-106	OAC-HDC	2729	3905
MSU K11306	96-100	MSU	2003	3537
MSU K15302	100-103	MSU	3273	3212
GTS 104	102-106	GTS	2002	3755
TALON ND061210	97-103	NDSU	2354	3342
CHAPARRAL 09423	105-108	PROVITA	2554	3149
DRK 09424	105-107	PROVITA	2411	2422
DRK 09429	105-108	PROVITA	2264	2932
DRK 09430	103-105	PROVITA	2211	3176
DRK 09431	104-105	PROVITA	2601	2780
			lsd=402	lsd=684
			cv-12.1%	cv-14.6%

<u>ALUBIA-W. KID.</u>	<u>DAYS</u>	<u>ORIGIN</u>	<u>GRATIOT</u>	<u>MONTCALM</u>
BELUGA	105-108	MSU	1805	3054
SNOWDON	90-94	MSU	1584	3417
YETI	105-107	OAC-HDC	2072	3737
MSU K14807	92-95	MSU	2014	2943
MSU K14814	92-96	MSU	2540	3707
COB-212-03	109-115	GTS	1908	2092
COB-228-03	92-96	GTS	1885	3202
			lsd=650	lsd=463
			cv-22.2%	cv-9.8%

ORIGIN KEY

MSU - Michigan State University
GTS - Gen-Tec Seeds
SEMINIS - Seminis Seeds - Monsanto
ADM - Archer Daniels Midland-Seedwest
TVS-Treasure Valley Seed Company
COOP - Cooperative Elevator Company
CAL - University of California
USDA - US Department of Ag - ARS
NDSU - North Dakota State University
CSU - Colorado State University
OAC-HDC - University of Guelph-Hensall District Coop
PROVITA - Provita Seeds
BASIN-Basin Seed Company
JAPAN - Japan Foods - Purity Foods

Maturity days = planting until harvest in 2016
Direct Cut Lodging Ratings = 1-erect, 5-laying flat on ground
White Mold Rating = 1-10% mold, 5-100% mold
White Mold Ratings on medium size varieties from Montcalm County
Bay, Huron, Sanilac and Tuscola were direct harvested
Gratiot and Montcalm navies, blacks, pintos and sm. reds were direct
harvested and large colored beans were hand pulled and harvested
4 location average Thumb and Bay county



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