



DRY BEAN NEWSLETTER

December 2020

2020 Michigan Bean Trial Performance

Typically, this time of year begins the annual meeting season for farmers. Usually one of the first on the calendar is the Michigan Bean Commission regional meetings where the year's bean trial results are discussed. This year, it was replaced with a virtual discussion that I was lucky enough to be a part of. Michigan State University's Dry Bean Specialist, Scott Bales, was once again conducting this year's study. He shared his results from the 2020 trials. If you missed this year's meeting, be sure to check out Scott's video on the Michigan Dry Bean Commission website, michiganbean.com. Below are the results for this year's trials for selected classes, which are also available on the MDBC website.



2020 Michigan Dry Bean Performance Trials
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Table 3. Navy bean agronomic and yield results.

VARIETY	Maturity	Flowering	Plant Height	Lodging	White Mold Infection	Bay	Huron	Sanilac	Tuscola	1-year avg.	2-year avg.	3-year avg.	Seed Size
	- day -	- day -	- inch -	- (1-5) -	- % -	Lb. A ⁻¹				Lb. A ⁻¹			seeds Lb ⁻¹
Apex	104	38	22.5	3.0	12.7	2691	3679*	2226*	2752	2934*	2849	2886	2028
Argosy	100	44	22.5	2.8	8.4	2815	3066	1856	2880	2654	2745	2813	2241
Armada	100	45	23.0	2.5	8.4	3147*	2957	2085	3257	2861	2838	2908	1925
Blizzard	98	-	24.0	2.1	16.7	3646**	2942	2673*	3215	3119*	2922*	2848	2020
HMS Bounty	103	-	24.0	2.6	2.2	3381*	3207	2643*	3425*	3179*	2929*	3125**	2387
HMS Medalist	101	45	23.0	2.3	19.9	3368*	3389*	2273*	3808**	3191*	2806	2740	2264
Indi	95	43	23.5	2.0	4.3	2987	2517	1618	3006	2532	2488	2536	2278
Merlin	103	-	23.5	3.0	7.6	2894	3138	2346*	2340	2679	2497	2669	2193
Nautica	103	38	21.0	3.1	13.4	3033*	3089	2153	2793	2751	2573	2514	2233
Shock	98	44	22.0	2.7	14.5	3162*	2773	1639	3099	2668	-	-	2086
Vaillant	101	46	23.5	2.7	13.0	3056*	3990**	2061	3135	2995*	2747	-	2178
Vigilant	96	46	25.0	1.5	6.5	2502	3615*	1961	2963	2814	2680	-	2378
12039	100	45	24.0	3.0	8.6	2517	3824*	2119	3362	2769	2942*	-	2180
14068	101	45	25.0	2.9	16.3	3151*	3624*	2060	3295	3285*	2913*	2885	2241
14080	102	45	22.5	2.9	6.9	2258	3091	2416*	2800	2605	2685	-	2207
14084	102	47	24.0	2.1	13.7	3453*	3666*	2281*	3456*	3214*	2879	2903	2392
14089	101	47	22.0	2.5	7.2	3175*	2477	2060	3020	2686	-	-	2270
15094	100	45	23.5	2.5	21.0	3492*	3442*	2227*	3423*	3146*	2987	3016*	2126
15095	104	46	21.5	2.9	14.8	3605*	3530*	2781**	3308	3306**	3152**	3097*	2344
EX1702	100	46	22.0	3.1	10.9	2183	2753	2179	2880	2499	2376	2600	2207
EX1708	102	-	23.0	2.8	18.8	3175*	2569	1751	3121	2712	2367	-	2489
EX1711	100	-	23.0	3.0	13.7	2876	2537	2217	2742	2593	2439	-	2155
EX1801	101	47	23.0	2.2	6.5	2543	3042	1802	2722	2527	-	-	2297
EX1802	96	46	21.0	1.5	11.2	2566	3480*	1418	2799	2703	-	-	2301
EX1803	101	-	22.0	2.5	26.8	2741	3198	2093	2997	2845	-	-	2631
EX1804	97	48	22.0	2.5	2.5	2870	2497	1572	2752	2311	-	-	2266
EX1914	101	47	21.0	3.0	11.9	2062	2761	1893	2922	2623	-	-	2072
N18103	97	42	22.5	2.2	12.7	2731	2906	1359	3002	2500	-	-	2029
N19253	100	-	25.0	2.2	7.9	3346*	3292	2182	3143	2966*	-	-	2237
N19285	102	44	22.0	2.9	7.2	2999	2206	2085	2968	2569	-	-	2104
ST1893GH	103	44	22.5	2.9	3.6	2889	3249	1552	3115	2701	2401	-	2129
MEAN:	100	45	22.9	2.6	11.3	2945	3112	2071	3068	2806	2725	2823	2229
LSD (0.05):	-	-	-	-	NS	617	621	556	399	395	257	182	-
CV:	-	-	-	-	-	17.8%	17.1%	22.9%	11.1%	23.8%	22.9%	19.2%	-

**Highest yielding variety within column

*Yield not statistically different than the highest yielding variety within column



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Table 4. Black bean agronomic and yield results.

VARIETY	Maturity		Flowering	Plant Height	Lodging	White Mold Infection		Bay	Huron	Sanilac	Tuscola	1-year avg.	2-year avg.	3-year avg.	Seed Size
	- dap -	- dap -	-	- inch -	- (1-5) -	- % -	Lb. A ⁻¹				Lb. A ⁻¹			seeds Lb ⁻¹	
Adams	101	44	22.0	2.7	7.4	3540	4663*	3099*	3300*	3521	3281*	3250	2066		
Black Bear	103	47	20.5	2.9	3.9	3118	4016	2682	3078*	3223	2918	2875	2288		
Black Beard	100	47	26.0	2.7	8.8	3684	4250	3156**	3142*	3558	3171*	3292*	1967		
Black Tails	96	44	22.5	2.0	12.6	3398	3946	2374	2783	3125	2809	2887	2326		
Eclipse	95	44	19.0	1.5	10.2	3052	3726	1721	3245*	2986	-	-	2156		
ND Twilight	94	45	20.5	1.5	17.5	2508	3695	1729	2836	2522	-	-	2022		
Spectre	101	45	23.5	2.6	4.6	3488	4849**	2822*	3208*	3591*	3190*	3252	2032		
Zenith	101	46	22.0	2.4	7.0	3414	3795	2294	3002	3126	2832	2881	2034		
Zorro	100	45	22.5	2.5	5.3	3316	4023	2195	3125*	3093	2718	2771	2388		
Zorro + Heads Up	100	45	22.0	2.5	4.9	3406	3867	2131	2734	3034	-	-	2421		
14500	101	46	23.5	2.7	9.1	4253**	4574*	3039*	3444*	3827**	3435**	3461**	1915		
15610	102	47	21.0	2.8	14.0	3222	4189	2843*	3490**	3435	3134	3072	2311		
15619	103	45	21.5	3.0	7.0	3140	4653*	2698	3239*	3471	2996	2796	2123		
16590	102	46	23.0	3.0	6.7	3077	3900	2484	3095*	3138	-	-	2005		
16648	103	47	22.5	3.0	7.0	3053	3940	2454	3096*	3143	-	-	2036		
17704	101	47	25.0	2.5	1.1	3069	3679	2138	2830	2973	-	-	2744		
17708	97	44	23.0	2.5	11.2	3215	3564	1909	2887	2987	-	-	2125		
17715	96	47	21.5	2.6	5.3	2850	4376*	2500	2725	3112	-	-	2370		
17724	96	44	23.0	2.5	14.0	3475*	3718	2086	2992	3067	-	-	2476		
17731	97	43	21.0	2.7	12.6	3747	4291	2652	3131*	3504	-	-	2059		
B135R1-1	100	44	22.0	1.5	10.5	2636	3289	2111	2738	2693	2567	-	1982		
B17220	100	45	21.5	1.5	1.8	3222	4308	2273	2942	3193	-	-	2052		
B17922	99	46	20.5	1.5	7.7	2877	4523*	2069	2754	3083	2944	-	2333		
B18201	98	46	22.0	2.0	6.0	2999	3820	2433	2848	3025	3163	-	1985		
B18204	95	44	21.0	2.0	6.0	3116	4228	2059	2703	2958	2699	-	1982		
B19330	96	45	20.0	2.0	10.9	3224	3896	2259	3126*	3170	-	-	2042		
B19344	100	45	23.5	2.5	4.6	3286	4447*	2245	3101*	3269	-	-	1860		
B3036368	97	46	21.0	2.8	4.6	2646	4081	1744	3056*	2993	-	-	2205		
B3036381	101	45	23.5	3.0	11.6	2649	4217	2578	2793	3059	-	-	2205		
BL1402-15	98	43	21.5	2.5	7.7	2914	3890	2416	2865	3124	-	-	1989		
MEAN:	99	45	22.1	2.4	8.0	3186	4077	2369	3007	3165	2990	3052	2150		
LSD (0.05):	-	-	-	-	NS	556	533	384	467	266	272	187	-		
CV:	-	-	-	-	-	14.8%	11.1%	13.7%	13.2%	14.4%	22.1%	18.2%	-		

**Highest yielding variety within column
 *Yield not statistically different than the highest yielding variety within column



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Table 5. Small Red and Pink bean agronomic and yield results.

VARIETY	Maturity		Flowering	Plant Height	Lodging	White Mold Infection		Bay	Huron	Sanilac	Tuscola	1-year avg.	2-year avg.	3-year avg.	Seed Size
	- dap -	- dap -	-	- inch -	- (1-5) -	- % -	Lb. A ⁻¹				Lb. A ⁻¹			seeds Lb ⁻¹	
Caldera	99	46	26.5	2.5	23.7	1946	2615	2255	3006	2700	2685	2826	1356		
Cayenne	98	43	22.5	2.1	10.3	2318	2655	2484	3063	2630	2645	2918*	1375		
Ruby	99	43	23.0	3.5	35.6	2098	2638	2414	3251	2600	2496	2687	1594		
Viper	100	44	23.0	2.5	26.0	2314	3357	3069**	3747**	3145**	3034**	3059**	1596		
16686	97	44	25.0	2.5	40.0	1658	2675	2588	3688*	2652	2494	-	1323		
17835	100	42	23.5	3.1	19.6	1428	2335	2004	2948	2085	2430	-	1259		
17837	100	40	22.0	2.5	25.2	2185	2511	2619	3695*	2752	2518	-	1494		
17839	99	39	24.0	2.6	16.3	2042	2617	2651*	3545*	2713	2458	-	1480		
RI7604	99	44	24.5	2.0	14.5	1919	2946	2162	3421	2612	2584	-	1616		
SI8904	100	43	21.5	2.2	17.4	2570	2190	2122	3128	2400	2545	-	1284		
MEAN:	99	43	23.5	2.5	22.8	2048	2653	2464	3349	2629	2589	2872	1438		
LSD (0.05):	-	-	-	-	NS	NS	NS	422	301	294	276	215	-		
CV:	-	-	-	-	-	-	-	14.6%	7.5%	26.7%	25.0%	22.1%	-		

**Highest yielding variety within column
 *Yield not statistically different than the highest yielding variety within column



Looking Ahead to 2021

Somehow, some way, we have made it to the end of 2020. So, I've decided to focus on 2021 and what the future might hold for us in the dry bean world.

A major confluence of factors right now is leading to quite a confused market place. Surging soybean prices and raised expectations of export shipments fuel optimism that we could see the lowest in 7 years and ultimately higher prices. What will this do to dry bean acres in 2021? A second wave of COVID outbreaks has helped demand surge once again, but uncertainty remains over how soon a vaccine will have a big impact on restrictions and buying habits. How much will changes in behavior and preferences during this pandemic carryover into "normal" life once it is past us? What will be the response in other countries and how soon will they be able to vaccinate? Will exports of dry beans continue at the pace they have been going? How much will a massive back up in logistics mess up the entire supply chain?

So many questions, not a ton of answers right now. Ultimately, only time will tell how all of these variables play out. If we look at what we do know for sure today in the dry bean world, the list may not be long, but it is encouraging. Consumer demand for plant based proteins was already climbing, but COVID and the need for cheap, readily available, shelf stable, and high protein products pushed them to new heights. The need for a healthy lifestyle was also in the spotlight this year as was access to food. As consumers continue to evaluate their options for food choices, COVID has forced them to reconsider not only what they consumer, but also how they get it. This is not only happening here in the U.S., but also in countries across the world.

Despite all of the unknowns heading in to 2021, it does appear that we can be confident that dry bean consumption continues to grow larger. That's certainly something to smile about.

Merry Christmas and Happy Holidays.

-Caleb Sundblad; Dry Bean and Specialty Crop Marketing Manager

