

Project Title: 2008 Statewide Dry Pea Evaluations

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Objective: Compare the production of 10 dry pea (*Pisum sativum* L.) cultivars in a northwestern Montana environment.

Results:

Ten dry pea cultivars, treated with Apron-Maxx RTA, were seeded at 7 seeds/sq.ft. on April 14, 2008. All peas in the trial were of the semi-dwarf/semi-leafless type. The soil was a Creston silt loam previously cropped to barley and prepared by minimum tillage. Fertilizer containing 11 lbs N/acre and 52 lbs P₂O₅/acre was incorporated prior to seeding. Prowl, at 4 pints/acre, was pre-plant incorporated for broadleaf weed control. The peas were direct harvested with a plot combine between Aug. 1 and 4, 2008.

The peas reached first bloom between June 20 and 26 and were physiologically mature between July 25 and 27, 2008. Yields ranged from 2724 lbs/a ('Cruiser') to 3633 lbs/a ('Delta'). The smallest variety was 'Medora' with 2102 seeds/lb., and the largest was 'PS0010836' with 1683 seeds/lb (Table 1).

Summary: The highest yielding pea cultivars were 'Admiral', 'Delta', 'Stirling', and experimental PS0010836.

Table 1. Results of the Statewide Dry Pea Evaluation at Kalispell in 2008.

<u>Cultivar</u>	<u>1st</u> <u>Flower</u> <i>date</i>	<u>Nodes</u> <i>to 1st fl</i>	<u>Canopy</u> <u>Ht.</u> <i>in</i>	<u>Maturity</u> <i>date</i>	<u>Grain</u> <u>Yield</u> <i>lbs/a</i>	<u>Seed</u> <u>Size</u> <i>#/lb</i>
Majoret	6/25	12	25.2	7/27	3242	2009
Admiral	6/24	14	28.0	7/25	3398	1734
Delta	6/23	13	25.6	7/25	3633	1724
Mozart	6/23	11	24.3	7/26	3207	1908
Cruiser	6/23	13	28.0	7/25	2724	2005
Stirling	6/20	10	22.7	7/27	3281	2048
Medora	6/26	13	31.0	7/27	2885	2102
PS01102958	6/25	12	21.8	7/25	3162	1732
PS9910140	6/24	12	23.5	7/27	3188	1891
PS0010836	6/23	11	23.4	7/25	3473	1683
mean		12	25.3		3219	1883
Pr>F		<.0001	<.0001		<.0001	<.0001
LSD(0.05)		1	2.3		398	117
CV%		6.6	6.4		8.6	4.3