Project Title:	2008 Statewide Lentil Evaluations
Project Leader:	Chengci Chen, CARC
Cooperator:	Louise Strang, NWARC
Objective:	Compare the production of 10 lentil (<i>Lens culinaris</i>) cultivars in a northwestern Montana environment.

Results:

Ten lentil cultivars, treated with Apron-Maxx RTA, were seeded at 7 seeds/sq.ft. on April 14, 2008. 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 lentils were direct harvested with a plot combine between Aug. 11 and 13, 2008.

The lentils reached 50% flowering between June 21 and 23 and were mature (13-15% moisture) between July 29 and Aug. 6, 2008. Yields ranged from 1844 lbs/a ('Brewer') to 2676 lbs/a ('LC01602300R'). The smallest variety was 'Crimson' with 12971 seeds/lb., and the largest was 'Riveland' with 5690 seeds/lb (Table 1).

Summary: The highest yielding lentil cultivars were 'Merrit' and experimental Eston-, Pennell-, and Riveland-types.

		<u>50%</u>		<u>Grain</u>		
		Flower	Canopy Ht.	<u>Maturity</u>	Yield	<u>SeedWT</u>
	<u>Cultivar</u>	date	in	date	lbs/a	#/lb
	Vantage	6/23	17	8/5	2089	8668
	Brewer	6/21	18	8/2	1844	7276
	Crimson	6/23	14	7/29	2309	12971
	Merrit	6/21	16	8/3	2445	6486
	Pennell	6/22	16	8/3	2256	6503
	Riveland	6/22	18	8/6	2046	5690
	LC1602307E	6/23	19	8/6	2670	9332
	LC01602062T	6/22	16	8/4	2310	9080
	LC01602245P	6/21	15	8/2	2477	11035
	LC01602300R	6/22	16	8/3	2676	9080
mean		16		2312	8612	
Pr>F LSD(0.05)		0.0001		<.0001	<.0001	
		2		270	548	
CV%		7.0		8.1	4.3	

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