

Organic Wheat Variety Evaluation

Polk County

Purpose of Study

To evaluate different spring wheat varieties grown under a certified organic production system. Entries came from either an organic seed source or a conventional seed source.

Results

Yield from Ingot was greater than many of the tested varieties, but not significantly different in yield from Gunner, Reeder, Waldron and Kulm. In organic production, protein premiums are a major part of the income. Gulpro provided the highest protein content followed by Coteau.

Cooperator: Jim and Pat Todahl
Nearest Town: Fertile, MN
Soil Type: Light sandy loam
Tillage: Fall chiseled, spring cultivated
Previous Crop: Soybeans
Variety: See table
Planting Date: May 14, 2001
Row Width: 8"
Fertilizer: 3 ton/a turkey manure-fall 2000
Weed Control: Harrowing, 2 times
Harvest Populations: See table
Harvest Date: August 20, 2001
Experimental Design: Randomized complete block with 5 replications

Variety	Seed Source	Yield* (bu/a)	Protein (%)	Test Weight (lb/bu)	Gross Revenue# (\$)	Height (inches)	Population (million/a)
Ingot	Conventional	44.5	14.0	60.0	271	38.7	1.45
Gunner	Conventional	41.2	13.8	60.0	241	36.0	1.36
Reeder	Conventional	40.8	13.7	59.3	232	33.4	1.40
Waldron	Conventional	40.3	14.3	56.2	253	38.8	1.40
Kulm	Conventional	38.5	13.7	59.5	218	37.2	1.40
Alsen	Conventional	36.8	14.0	59.6	221	33.4	1.36
Parshall	Organic	36.0	13.6	58.6	201	38.2	1.33
Grandin	Conventional	35.5	14.1	57.6	216	33.6	1.28
Ernest	Conventional	34.4	14.0	59.2	208	39.8	1.36
Stoa	Organic	33.0	13.8	56.7	194	39.8	1.19
Parshall	Conventional	32.7	13.4	59.7	177	38.2	1.08
Coteau	Conventional	32.0	15.7	56.3	234	39.0	1.38
Coteau	Organic	30.9	15.5	56.6	224	39.4	1.34
Gulpro	Conventional	30.1	16.4	55.4	231	42.8	1.26
LSD (0.05)		6.3	0.5	1	48	1.8	NS

*Corrected to 13.5% moisture

#Protein premium is \$0.10/0.1% for 13.0 to 15.0% protein and \$0.05/0.1% for protein >15.0%.

Base price is \$5.00/bu.

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