

Organic Oat Variety Evaluation

Polk County

Purpose of Study

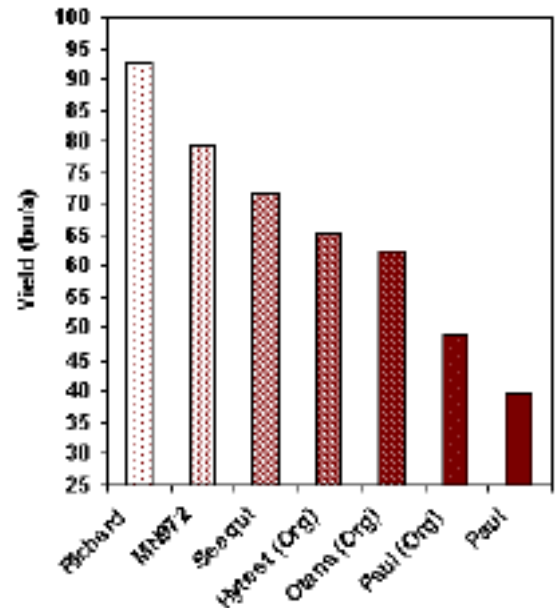
To evaluate different oat varieties grown under a certified organic production system. Entries came from either an organic seed source (Org) or a conventional seed source.

Cooperator: Jim and Pat Todahl
Nearest Town: Fertile, MN
Soil Type: Light sandy loam
Tillage: Fall chisel, 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

Results

Richard significantly out yielded the other varieties. Test weights for hull-less varieties are significantly higher than hulled varieties. Paul is a hull-less variety, to compare yields, one needs to add about 25% to the reported Paul yield.

Variety	Seed Source	Yield* (bu/a)	Test Weight (lb/bu)	Crop Height (inches)	Lodging Score at harvest [#]	Population (million/a)
Richard	Conventional	92.6	31.3	37.6	4.3	1.06
MN972	Conventional	79.4	30.2	36.4	4.6	1.29
Sesqui	Conventional	71.7	32.3	36.0	4.4	1.29
Hyttest	Organic	65.3	35.6	38.6	4.8	1.12
Otana	Organic	62.5	30.8	39.2	4.8	1.26
Paul	Organic	48.9	41.0	39.0	3.8	1.00
Paul	Conventional	39.7	37.6	38.8	3.9	1.02
LSD (0.05)		10.8	3.8	1.9	0.6	0.24



*Corrected to 14% moisture

[#]Score from 0-5: with 5 the oat is completely flat on the ground
 Due to strong winds most of the oats were severely lodged

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