

## 2009 Evaluation of Seed Source in Organic Potato Production

NDSU Carring Research Extension Center

### Dryland Organic Potato Seed Source

Seed Source *	Tuber Wt. grams	Yield B cwt/ac	Yield #1 cwt/ac	Total Yield cwt/ac
<b>Wood Prairie Family Farm</b>	<b>171.7</b>	<b>2.9</b>	<b>150.8</b>	<b>153.7</b>
Johnny's	181.0	4.9	115.5	120.4
MN	159.4	4.7	107.7	112.5
CREC (1)	193.1	4.4	121.1	125.5
CREC (4)	164.6	3.7	72.8	76.4
Irish Eyes	187.7	6.1	139.1	145.3
Seeds of Change	168.2	3.2	106.6	109.8
Seed Savers Exchange	158.5	4.2	97.4	101.6
Mean	173	4.3	113.9	118.1
C.V. %	7.2	66.8	12.9	13
LSD.05	21.8	NS	25.6	26.8

Trial Planted, May 12

Trial Harvested, September 21

Previous Crop, Green Manure cover crop (sudangrass, ryegrass, peas, lentils, turnip, & rape)

Variety used is Yukon Gold, all seed sources are organic except MN which is conventionally grown

CREC(1) & CREC (4) are seed sources grown at the CREC from both certified organic and certified potato seed grade potatoes.

Numbers in parenthesis indicate the number of generations grown at CREC

Trial was conducted under dryland conditions

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### Irrigated Organic Potato Seed Source Trial

Seed Source *	Days to emergence	Days to drydown	Tuber Wt. grams	Yield B cwt/ac	Yield #1 cwt/ac	Total Yield cwt/ac
<b>Wood Prairie Family Farm</b>	<b>32.5</b>	<b>99.5</b>	<b>192.0</b>	<b>6.8</b>	<b>193.2</b>	<b>200</b>
CREC**	37.5	99.8	197.0	8.6	156.6	165.2
Irish Eyes	31.3	98.3	200.9	10.9	177.1	188
MN (blue tag)	28.3	97.3	206.8	6.9	189.3	196.2
Seed Savers Exchange	37.5	100.5	205.1	8.6	162.7	171.3
Mean	33.4	99.1	200.4	175.8	8.4	184.1
C.V. %	6.9	1.1	9.8	13.2	35.6	13.6
LSD.05	3.5	1.6	NS	35.8	NS	NS