

# **Organic Research and Extension Initiative Variety Trial Summaries 2012 - 2015**

## **Value Added Grains for Local and Regional Food Systems**

Sponsored by the National Institute of Food And Agriculture-USDA award #2011-51300-30697

### **Collaborators:**

Mark Sorrells, David Benscher, and Lisa Kissing Kucek, Cornell University

Brian Baker, Northeast Organic Farming Association of NY (NOFA-NY)

Marne Coit, Northeast Organic Farming Association of NY (NOFA-NY)

Michael H. Davis, Willsboro Research Farm, Cornell University Agricultural Experiment Station

Elizabeth Dyck, Organic Growers' Research and Information-Sharing Network

Kristin Hoy, Pennsylvania Association for Sustainable Agriculture (PASA)

Greg Roth, Penn State University

Ann Ruffin and Nancy Apolito (Interim Executive Director), Northeast Organic Farming  
Association of NY (NOFA-NY)

June Russell, Greenmarket, GrowNYC

Steve Zwinger, North Dakota State University, Carrington Research Extension Center

## 2012-15 OREI Organic Winter Spelt Trial – All Locations

Entry	Variety	Yield (bu/ac)					Test		Lodging	Height (in)	Heading	Winter
		FV	PA	WB	Mean	Rank	(lbs/bu)	Rank				
1	Frank	62.3	46.6	79.9	62.9	3	28.7	1	4	44.5	12-Jun	84
2	Maverick	64.7	62.4	102.9	76.7	1	28.3	2	2.3	41.7	2-Jun	50
3	Oberkulmer	62.7	55.3	81.6	66.5	2	27.0	4	2.5	45.7	6-Jun	60
4	PI348159	57.2	50.9	79.8	62.7	4	27.4	3	3.5	46.1	12-Jun	67
	Mean	61.7	53.8	86.1	67.2		27.9		3.1	44.5	8-Jun	65

FV - Freeville, NY

PA - Penn State Univ.

WB - Willsboro, NY

## 2012-15 OREI Organic Winter Spelt Trial – Penn State Univ.

Entry	Variety	Yield (bu/ac)						Test (bu/ac)						Lodging	Height (in)	Heading
		2012	2013	2014	2015	Mean	Rank	2012	2013	2014	2015	Mean	Rank			
1	Comet	-	65.5	73.6	51.7	63.6		-	30.8	29.1	21.3	27.1		0	28.3	30-May
2	Frank	19.2	56.7	59.3	51.3	46.6	4	24.7	32.6	29.7	22.1	27.3	1	6.7	41.3	8-Jun
3	Maverick	37.4	64.7	74.0	73.5	62.4	1	18.8	31.9	30.8	24.5	26.5	3	2.7	39.4	30-May
4	Oberkulmer	34.9	59.1	70.7	56.6	55.3	2	22.6	29.7	26.8	19.2	24.5	4	5.3	42.9	1-Jun
5	PI348159	15.9	58.4	66.8	62.6	50.9	3	23.5	32.7	27.6	22.5	26.6	2	6.7	42.5	9-Jun
6	Sungold	-	61.4	92.1	97.5	83.7		-	30.5	27.5	22.6	26.9		1.3	40.6	6-Jun
	Mean	26.9	61.0	72.8	65.5	60.4		22.4	31.4	28.6	22.1	26.5		3.8	39.0	4-Jun

## 2012-15 OREI Organic Spring Spelt Trial – All Locations

Entry	Variety	Yield (bu/ac)							Test		Lodging Mean	Height (in) Mean	Heading Date
		FV	NDSU	NDCath	NDRob	PA	Mean	Rank	(lbs/bu)	Rank			
1	CDC Zorba	52.8	93.1	67.9	40.0	32.0	57.2	1	30.4	4	1.4	44.5	12-Jun
2	AC Boveria	38.5	62.8	58.5	32.7	20.6	42.6	5	32.7	3	4.2	44.5	15-Jun
3	94-288	40.8	63.8	59.0	32.5	32.5	45.7	4	29.7	5	3.2	36.6	26-Jun
4	Forage Spelt	36.7	77.2	58.9	36.3	34.3	48.7	2	33.8	2	2.8	44.9	9-Jun
5	SK3P	37.3	71.1	60.2	36.7	32.3	47.5	3	34.8	1	2.8	46.1	9-Jun
	Mean	41.2	73.6	60.9	35.7	30.3	48.3		32.2		2.9	43.3	14-Jun

## 2012-15 OREI Organic Spring Spelt Trial – Penn State Univ.

Entry	Variety	Yield (bu/ac)					Test (lbs/bu)					Lodging Mean	Height (in) Mean	Heading Date
		2012	2013	2014	Mean	Rank	2012	2013	2014	Mean	Rank			
1	CDC Zorba	-	25.1	38.9	32.0		-	-	30.5	30.5	5	4.5	42.1	4-May
2	AC Boveria	18.3	16.6	24.6	20.6	4	21.4	-	36.2	36.2	2	7.3	48.0	12-May
3	94-288	-	29.0	36.0	32.5		-	-	29.1	29.1	6	5.3	37.0	21-Jun
4	Forage Spelt	28.0	28.0	40.6	34.3	1	23.3	-	35.5	35.5	3	4.7	50.0	6-May
5	SK3P	-	25.7	38.9	32.3	2	-	-	37.3	37.3	1	3.8	52.4	3-May
6	Red Chaff	-	23.6	34.9	29.3	3	-	-	32.9	32.9	4	3.2	40.9	29-Apr
	Mean	23.2	24.7	35.6	30.2		22.4		33.6	33.6		4.8	45.3	13-May

## 2012-15 OREI Organic Spring Emmer Trial – All Locations

Entry	Variety	Yield (bu/ac)								Test		Lodging Mean	Height (in) Mean	Heading Date
		FV 3yr	NDSU 4yr	NDCath 3yr	NDRob 3yr	PA 3yr	WB 3yr	Mean	Rank	(lbs/bu)	Rank			
1	Bowman	36.2	72.3	44.1	51.1	12.9	42.5	43.2	9	35.0	10	3.8	37.4	26-Jun
2	Common-H	37.4	71.2	45.5	54.2	13.3	45.9	44.6	7	35.7	7	3.9	37.4	26-Jun
3	Common-M	41.7	69.3	44.2	51.6	13.4	50.5	45.1	6	35.7	8	3.4	37.8	26-Jun
4	Common-MC	42.6	70.4	44.9	54.3	15.3	48.9	46.1	5	35.8	6	2.8	37.8	26-Jun
5	Common-R	40.4	69.0	46.3	50.4	11.3	47.6	44.2	8	35.2	9	3.6	36.6	26-Jun
6	Debra	34.7	47.5	27.2	43.6	24.3	61.3	39.7	11	52.4	1	0.8	26.8	19-Jun
7	Lucille	51.7	88.8	48.5	55.1	17.9	71.7	55.6	2	36.0	5	3	38.2	26-Jun
8	ND Common	48.6	88.2	51.3	59.8	19.9	66.6	55.7	1	36.8	2	3.7	38.6	25-Jun
9	PI254148	27.4	61.4	23.2	40.5	14.9	71.8	39.9	10	30.1	12	4.5	28.3	19-Jun
10	PI254162	26.8	60.7	40.3	49.3	9.1	39.7	37.6	12	30.9	11	5	31.1	21-Jun
11	Red Vernal	46.1	84.0	51.7	59.7	18.7	71.5	55.3	3	36.4	4	3.2	39.8	25-Jun
12	Vernal	49.1	80.5	49.0	58.6	20.5	68.0	54.3	4	36.5	3	3.1	38.6	25-Jun
	Mean	40.2	72.0	43.0	52.3	16.0	57.2	46.8		36.4		3.4	35.8	24-Jun

FV - Freeville, NY  
 NDSU  
 NDCath - Cathay, ND  
 NDRob - Robinson, ND  
 PA - Penn State Univ.  
 WB - Willsboro, NY

## 2012-15 OREI Organic Spring Emmer Trial – Penn State Univ.

Entry	Variety	Yield (bu/ac)					Test (lbs/bu)					Lodging Mean	Height (in) Mean	Heading Date
		2012	2013	2014	Mean	Rank	2012	2013	2014	Mean	Rank			
1	Bowman	14.3	11.5	24.7	16.8	9	31.6	-	37.8	34.7	6	3.2	38.6	27-Jun
2	Common-H	14.2	12.5	24.0	16.9	8	30.6	-	38.0	34.3	7	4.3	38.6	27-Jun
3	Common-M	17.1	9.7	24.0	16.9	7	32.2	-	38.0	35.1	5	2.2	40.6	27-Jun
4	Common-MC	20.9	9.8	24.6	18.4	6	32.5	-	37.9	35.2	4	2.7	40.2	26-Jun
5	Common-R	12.5	10.2	21.9	14.9	10	30.3	-	37.8	34.0	8	4.3	39.4	27-Jun
6	Debra	43.2	5.4	-	24.3	2	51.5	-	-	-	-	3.5	26.0	17-Jun
7	Lucille	24.2	11.6	22.9	19.6	5	32.0	-	31.2	31.6	9	2.5	39.4	26-Jun
8	ND Common	24.0	15.7	33.7	24.5	1	33.4	-	39.0	36.2	1	3.3	41.3	26-Jun
9	PI254148	17.2	12.6	-	14.9	31.7	-	-	-	-	-	5	28.3	16-Jun
10	PI254162	13.0	5.3	7.6	8.6	11	27.0	-	14.8	21.0	10	3.7	31.5	21-Jun
11	Red Vernal	22.3	15.1	28.3	21.9	4	32.9	-	37.6	35.3	3	3	40.9	25-Jun
12	Vernal	21.6	19.2	28.1	23.0	3	32.9	-	38.1	35.5	2	4.2	41.7	25-Jun

## 2012-15 OREI Organic Spring Einkorn Trial – All Locations

Entry	Variety	Yield (bu/ac)								Test		Lodging Mean	Height (in) Mean	Heading Date
		FV	NDSU	NDCath	NDRob	PA	WB	Mean	Rank	(lbs/bu)	Rank			
1	PI538722	20.9	71.5	47.6	46.7	12.6	26.3	37.6	3	33.3	2	3.4	40.2	28-Jun
2	TM23	31.8	93.8	52.2	50.7	18.7	17.0	44.0	1	34.0	1	2.7	37.8	27-Jun
3	WB Apline	14.1	78.8	59.0	36.5	18.9	22.3	38.3	2	29.9	3	3	41.3	6-Jul
	Mean	22.3	81.4	52.9	44.6	16.7	21.9	40.0		32.5		3	39.8	30-Jun

FV - Freeville, NY

NDSU

NDCath - Cathay, ND

NDRob - Robinson, ND

PA - Penn State Univ.

WB - Willsboro, NY

## 2012-15 OREI Organic Spring Einkorn Trial – Penn State Univ.

Entry	Variety	Yield (bu/ac)				Test (lbs/bu)				Lodging Mean	Height (in) Mean	Heading Mean
		2013	2014	Mean	Rank	2013	2014	Mean	Rank			
1	PI538722	7.9	17.4	12.6	3	-	32.2	32.2	3	3.1	40.6	27-Jun
2	TM23	7.1	30.2	18.7	2	-	38.7	38.7	1	2.3	37.8	27-Jun
3	WB Apline	10.0	27.7	18.9	1	-	36.0	36.0	2	1	39.8	27-Jun
	Mean	8.3	25.1	16.7		-	35.7	35.7		2.1	39.4	27-Jun