



# AGRONOMIC CROP SCIENCE REPORT

Research

Extension

## FARO, A WHITE CLUB WHEAT FOR DRYLAND AREAS

Norman Goetze 1/

Experiment station workers at Pendleton have developed a new white club wheat variety to replace Paha and Moro. Faro has Suwon 92, Omar, and Moro parentage. Faro is 1 or 2 inches shorter than Paha and has similar lodging resistance. The dense spike is awnletted and has brown glumes. Its growth habit, winter hardiness, and seedling emergence are similar to Paha. Its test weight, maturity, and kernel type are similar to Moro. It is resistant to stripe rust and common bunt. The overall milling and baking qualities are most similar to Moro and are within acceptable market ranges.

Faro is best adapted to the lower rainfall areas of eastern Oregon where club wheats are most commonly grown. In those locations it has yielded better than either Moro or Paha; however, it is not competitive with the soft white wheats in the higher yielding locations (Table 2).

Faro is being released cooperatively by agricultural experiment stations of Oregon and Washington. Limited supplies of Foundation seed are available for planting in fall 1976.

Faro was developed by C. R. Rohde, W. B. Locke, W. E. Kronstad, M. F. Kolding, and R. J. Metzger also participated in its development.

Table 1. Yield data comparing Faro with other varieties from the Western Uniform Regional White Winter Wheat Nurseries grown in the western region in 1974 and 1975 (bushels per acre).

Variety	Oregon			Washington			Idaho			Grand Avg.
	1974	1975	Avg.	1974	1975	Avg.	1974	1975	Avg.	
Faro	73.4	74.2	73.8	51.0	64.8	57.9	94.1	95.6	94.8	66.8
Hyslop	84.8	80.3	82.6	60.3	70.3	65.3	107.8	102.8	105.3	74.9
McDermid	76.5	79.1	77.8	58.1	67.8	63.0	104.1	89.6	96.8	71.3
Nugaines	74.3	77.9	76.1	56.2	61.4	58.8	91.2	100.1	95.6	67.6
Rew	68.7	71.8	70.2	54.5	62.2	58.3	91.7	83.4	87.5	65.3
Paha	68.8	69.4	69.1	49.5	58.4	53.9	77.5	94.4	86.0	62.7
Moro	60.4	52.3	56.4	38.7	46.3	42.5	80.4	82.4	81.4	51.1
Elgin	47.0	44.6	45.8	36.0	46.0	41.0	66.0	63.0	64.5	45.8
No. of tests	3	3	6	10	12	22	3	2	5	33

1/ Extension Agronomist, Oregon State University, Corvallis.

Table 2. Yield data comparing Faro with other varieties grown in eastern Oregon (bushels per acre).

Lower Yielding Locations								
<u>Variety</u>	<u>Moro</u>	<u>Pilot Rock</u>	<u>Rew Farm</u>	<u>Holdman</u>	<u>Heppner</u>	<u>Arlington</u>	<u>Condon</u>	<u>Avg.</u>
Faro	44.9	36.5	33.9	30.5	23.5	35.4	21.8	32.4
Hyslop	39.4	36.9	32.5	37.1	24.1	33.4	21.4	32.1
McDermid	35.1	36.8	33.6	32.6	26.8	32.6	22.8	31.5
Rew	37.0	33.9	32.0	34.5	23.5	32.8	25.1	31.3
Luke	36.3	31.7	32.9	34.7	23.8	31.8	22.2	30.5
Nugaines	39.4	29.5	32.6	33.1	23.9	33.8	20.3	30.4
Paha	34.9	32.8	30.4	33.6	23.5	32.6	20.7	29.8
Wanser	29.7	33.3	31.0	28.2	23.2	30.1	22.4	28.3
Moro	28.9	32.3	28.4	31.2	23.3	28.4	17.6	27.2
No. of years tested	3	3	3	3	3	2	1	18

  

Higher Yielding Locations						
<u>Variety</u>	<u>Pendleton</u>	<u>Weston</u>	<u>LaGrande</u>	<u>Enterprise</u>	<u>Baker</u>	<u>Avg.</u>
Faro	77.0	64.3	63.2	55.6	48.2	61.7
Hyslop	79.5	63.9	59.9	58.9	78.6	68.2
Luke	77.1	61.3	62.7	57.6	82.2	68.2
McDermid	78.2	58.4	56.2	59.4	83.2	67.1
Nugaines	76.9	61.3	62.9	55.5	73.2	66.0
Rew	72.0	61.6	66.6	61.1	64.2	65.1
Paha	70.7	60.6	64.7	56.3	51.0	60.7
Wanser	56.0	59.8	54.9	53.3	65.0	57.8
Moro	59.4	55.2	54.7	51.7	53.2	54.8
No. of years tested	3	3	3	3	2	14

Table 3. Agronomic data comparing Faro with other varieties in eastern Oregon.

Variety	<u>Lower Yielding Locations</u>							Avg.
	Moro	Pilot Rock	Rew Farm	Holdman	Heppner	Arlington	Condon	
	Test Weight (pounds per bushel)							
Faro	55.1	57.7	53.4	54.9	56.4	54.2	55.7	55.3
Wanser	57.6	61.1	59.6	59.4	60.1	59.4	61.7	59.8
Nugaines	58.3	60.9	58.1	58.2	60.4	58.8	59.5	59.2
Rew	56.6	59.4	56.5	57.9	58.1	56.8	58.2	57.6
Luke	57.2	57.9	55.5	56.7	57.4	56.8	57.3	57.0
Paha	55.3	58.8	55.6	56.4	56.9	55.8	57.5	56.6
Hyslop	54.6	58.1	54.3	55.2	57.2	55.2	56.5	55.9
McDermid	54.1	57.5	54.4	55.2	56.5	55.2	56.6	55.6
Moro	53.4	57.8	55.0	56.2	55.7	54.0	57.1	55.6
	Plant Height (inches)							
Faro	25	24	23	23	21	26	25	24
Wanser	31	31	31	28	27	34	28	30
Rew	28	29	28	29	27	30	32	29
Moro	28	29	27	28	26	30	28	28
McDermid	24	26	26	25	25	28	26	26
Paha	26	25	24	24	22	28	25	25
Hyslop	25	26	25	26	23	27	25	25
Luke	24	25	23	25	23	26	25	24
Nugaines	24	23	24	24	22	26	23	24
No. of years tested	3	3	3	3	3	2	1	18

Table 4. Other agronomic data comparing Faro with other varieties grown in eastern Oregon.

<u>Variety</u>	Protein (percent)			
	<u>Pilot Rock</u>	<u>Rew Farm</u>	<u>Holdman</u>	<u>Avg.</u>
Faro	11.0	13.0	11.6	11.9
Rew	11.0	13.2	13.0	12.4
Hyslop	11.0	13.6	12.1	12.2
McDermid	11.0	13.3	11.8	12.0
Nugaines	10.9	12.2	12.5	11.9
Paha	10.6	13.0	11.5	11.7
Luke	9.8	13.6	11.7	11.7
Wanser	10.0	11.6	12.4	11.3
Moro	9.4	12.0	12.0	11.1
No. of years tested	2	2	2	6

  

<u>Variety</u>	<u>Heading Date</u>			<u>Seed Weight (g/100)</u>	<u>No. of Culms</u>	<u>Straw Weight (lbs/a)</u>
	<u>Pendleton</u>	<u>Moro</u>	<u>Avg.</u>			
Faro	June 5	May 30	June 2	2.770	697	8292
Wanser	June 3	May 30	June 1	3.083	740	7830
Hyslop	June 4	May 31	June 2	3.394	769	9618
McDermid	June 3	May 31	June 2	3.336	821	8858
Moro	June 3	May 31	June 2	2.370	652	8353
Nugaines	June 5	June 1	June 3	3.213	823	8669
Rew	June 5	June 1	June 3	3.585	612	9167
Luke	June 9	June 4	June 6	3.092	831	8658
Paha	June 9	June 2	June 6	2.919	631	8540
No. of years tested	3	3	6	2	3	2