

2003

## San Joaquin County

# Rice Research Results

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# 2003 San Joaquin County Very Early Advanced Rice Variety Trial

Variety	Grain Type	Grain Yield at 14%		Grain Moisture at Harvest		Seedling Vigor		Days to 50% Heading		Lodging		Plant Height	
		lbs/acre	( )	(%)	( )	(1-5)	( )	( )	(1-99)	( )	(in)	( )	
S-102	S	9070	( 1)	17.1	(15)	5.0	( 1)	78	( 1)	1	( 1)	36	(13)
01Y220	WX	8990	( 2)	22.0	( 6)	5.0	(14)	82	( 6)	1	( 1)	35	(10)
M-206	M	8890	( 3)	24.0	( 3)	5.0	(14)	92	(16)	1	( 1)	36	(15)
00Y170	S	8830	( 4)	21.4	( 9)	5.0	( 1)	79	( 3)	1	( 1)	32	( 1)
00Y175	WX	8720	( 5)	22.3	( 5)	5.0	( 1)	83	( 7)	1	( 1)	35	(12)
02Y045	L	8700	( 6)	19.3	(11)	5.0	( 1)	86	(11)	1	( 1)	36	(13)
CM101	WX	8630	( 7)	18.0	(13)	5.0	( 1)	80	( 4)	1	( 1)	35	(10)
M-104	M	8470	( 8)	21.5	( 8)	5.0	( 1)	87	(12)	1	( 1)	34	( 6)
02Y520	REX	8420	( 9)	17.1	(16)	5.0	( 1)	79	( 2)	1	( 1)	34	( 6)
01Y185	SPQ	8400	(10)	22.6	( 4)	5.0	( 1)	89	(13)	1	( 1)	35	( 8)
99Y469	L	8390	(11)	17.7	(14)	5.0	(14)	85	(10)	1	( 1)	33	( 2)
01Y266	M	8340	(12)	24.1	( 2)	5.0	(17)	91	(14)	1	( 1)	36	(15)
M-103	M	8330	(13)	20.5	(10)	5.0	( 1)	81	( 5)	1	( 1)	34	( 4)
00Y805	M	8270	(14)	21.9	( 7)	5.0	( 1)	91	(14)	1	( 1)	38	(17)
L-204	L	8190	(15)	19.2	(12)	5.0	( 1)	84	( 8)	1	( 1)	34	( 3)
M-202	M	7980	(16)	24.8	( 1)	5.0	( 1)	97	(17)	1	( 1)	35	( 8)
L-205	REX	7890	(17)	16.6	(17)	5.0	( 1)	84	( 8)	1	( 1)	34	( 4)
MEAN		8500		20.6		5		85		1		35	
CV		4		5.5		0.5		1.7				3.7	
LSD (.05)		480		1.6				2				2	

S = short; M = medium; L = long; PQ = Premium Quality; REX = Newrex; WX = waxy.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

# 2003 San Joaquin Very Early Preliminary Rice Variety Trial

Escalon, California

Variety	Grain Type	Grain Yield at 14% Moisture		Grain Moisture at Harvest		Seedling Vigor		Days to 50% Heading		Lodging		Plant Height (in)
		lbs/acre	( )	(%)	(%)	(1-5)	( )	( )	(1-99)	( )		
02Y210	WX	9330	( 1)	21.0	(12)	5.0	( 1)	87	(22)	3	(33)	35 (24)
02Y187	S	9330	( 2)	22.2	( 4)	4.7	(33)	84	(13)	2	(32)	36 (29)
02Y237	M	9190	( 3)	20.5	(16)	5.0	( 1)	83	(11)	1	( 1)	36 (28)
02Y221	WX	9170	( 4)	20.5	(17)	4.7	(33)	85	(17)	31	(34)	35 (19)
02Y238	M	9150	( 5)	21.2	( 7)	5.0	( 1)	90	(28)	1	( 1)	35 (19)
02Y872	M	8800	( 6)	20.2	(18)	5.0	( 1)	82	( 7)	1	( 1)	34 (15)
02Y198	S	8790	( 7)	22.8	( 2)	5.0	(27)	83	(11)	1	( 1)	36 (29)
02Y516	L	8770	( 8)	18.4	(24)	5.0	(27)	86	(20)	1	( 1)	37 (34)
02Y244	M	8680	( 9)	20.8	(15)	5.0	( 1)	87	(23)	1	( 1)	36 (29)
02Y816	M	8540	(10)	22.6	( 3)	5.0	( 1)	97	(34)	1	( 1)	35 (19)
02Y887	M	8430	(11)	19.8	(20)	5.0	( 1)	86	(20)	1	( 1)	34 (11)
01Y451	REX	8430	(12)	14.8	(32)	5.0	( 1)	79	( 1)	1	( 1)	34 (11)
02Y474	REX	8350	(13)	15.0	(31)	5.0	( 1)	80	( 2)	1	( 1)	30 ( 1)
02Y833	M	8320	(14)	18.9	(23)	5.0	( 1)	84	(15)	1	( 1)	34 (11)
02Y234	M	8260	(15)	21.3	( 6)	5.0	( 1)	92	(31)	1	( 1)	34 (15)
02Y864	M	8160	(16)	19.7	(21)	5.0	( 1)	84	(13)	1	( 1)	33 ( 6)
02Y171	SPQ	8050	(17)	17.8	(26)	5.0	( 1)	85	(17)	1	( 1)	36 (29)
02Y496	L	8020	(18)	15.2	(30)	5.0	( 1)	84	(15)	1	( 1)	33 ( 6)
02P2878	REX	8010	(19)	15.8	(28)	5.0	( 1)	81	( 4)	1	( 1)	34 (11)
02Y844	M	8010	(20)	22.0	( 5)	5.0	( 1)	90	(29)	1	( 1)	34 (15)
02Y502	L	8000	(21)	15.5	(29)	5.0	( 1)	81	( 5)	1	( 1)	32 ( 5)
01Y295	MPQ	7940	(22)	21.0	(13)	5.0	(27)	82	( 8)	1	( 1)	36 (29)
01Y195	MPQ	7910	(23)	20.9	(14)	5.0	( 1)	83	( 9)	1	( 1)	34 (15)
02Y889	M	7850	(24)	21.1	(11)	5.0	( 1)	83	( 9)	1	( 1)	35 (24)
02Y519	REX	7830	(25)	20.0	(19)	5.0	( 1)	89	(26)	1	( 1)	35 (24)
02Y834	M	7820	(26)	21.1	(10)	5.0	( 1)	92	(31)	1	( 1)	35 (24)
02Y505	REX	7770	(27)	16.3	(27)	5.0	( 1)	89	(27)	1	( 1)	33 (10)
02Y172	SPQ	7710	(28)	23.5	( 1)	5.0	(27)	94	(33)	1	( 1)	35 (19)
02Y243	M	7630	(29)	19.5	(22)	5.0	( 1)	85	(17)	1	( 1)	33 ( 6)
02Y847	M	7460	(30)	21.2	( 8)	5.0	( 1)	91	(30)	1	( 1)	35 (19)
02Y480	SR	7210	(31)	18.2	(25)	5.0	( 1)	88	(24)	1	( 1)	33 ( 6)
99Y324	SPQ	7100	(32)	21.1	( 9)	5.0	( 1)	88	(25)	1	( 1)	31 ( 2)
01Y478	BAS	6760	(33)	14.7	(34)	4.9	(32)	81	( 5)	1	( 1)	32 ( 4)
01Y477	BAS	6670	(34)	14.8	(33)	5.0	(27)	80	( 3)	1	( 1)	31 ( 2)
MEAN		8160		19.4		5		85		2		34
CV		5.2		5		1.1		1.9		368.5		3.7
LSD (.05)		870		2		0.1		3				3

S = short; M = medium; L = long; PQ = Premium Quality; SR = Stem Rot Resistant; BAS = Basmati; REX = Newrex; WX = waxy.

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

# Summary of Very Early Rice Varieties by Location & Year

(1999-2003)

Location	Year	M-103	M-104	M-202	M-206	Calmochi			
						101	S-102	L-204	L-205
Biggs (RES)	1999	<b>10330</b>	10550	10480	-	10200	11140	10310	10610
	2000	<b>9160</b>	9720	9380	-	8590	9390	9330	10500
	2001	<b>9040</b>	9760	9950	9720	8930	10260	10300	10220
	2002	<b>8740</b>	10170	9710	10670	8890	9910	10120	10910
	2003	<b>6720</b>	7470	7760	7950	8630	10150	9480	9370
Location Mean		<b>8798</b>	9534	9456	9447	9048	10170	9908	10322
San Joaquin	1999	<b>7980</b>	<b>5620</b>	-	-	<b>8860</b>	<b>8260</b>	<b>2460</b>	<b>2490</b>
	2000	<b>7710</b>	<b>8260</b>	<b>6670</b>	-	<b>6750</b>	<b>8180</b>	<b>7370</b>	<b>6720</b>
	2001	<b>8080</b>	<b>8400</b>	<b>7010</b>	<b>8280</b>	<b>9070</b>	<b>9680</b>	<b>7750</b>	<b>7300</b>
	2002	<b>8630</b>	<b>9400</b>	<b>8750</b>	<b>8900</b>	<b>8550</b>	<b>8910</b>	<b>7800</b>	<b>7280</b>
	2003	<b>8330</b>	<b>8470</b>	<b>7980</b>	<b>8890</b>	<b>8630</b>	<b>9070</b>	<b>8190</b>	<b>7890</b>
Location Mean		<b>8146</b>	<b>8030</b>	<b>7602.5</b>	<b>8690</b>	<b>8372</b>	<b>8820</b>	<b>6714</b>	<b>6336</b>
Sutter	1999	<b>9670</b>	9260	9990	-	9670	10150	9410	9170
	2000	<b>9230</b>	9220	9940	-	9300	9750	8980	9370
	2001	<b>8310</b>	8780	8590	9480	8530	9260	8530	8250
	2002	<b>9320</b>	9620	8940	9870	9010	9950	8860	9050
	2003	<b>7940</b>	8420	8250	8580	7350	8460	8370	8610
Location Mean		<b>8894</b>	9060	9142	9310	8772	9514	8830	8890
Yolo	1999	<b>9960</b>	9020	7420	-	9960	10290	9250	7750
	2000	<b>9290</b>	9340	9820	-	9800	9870	9170	8970
	2001	<b>8710</b>	9300	8880	9130	9550	9880	8230	7680
	2002	<b>8770</b>	9580	8680	9180	8890	9830	7570	8180
	2003	<b>8420</b>	8880	9350	9300	8480	9050	8590	9030
Location Mean		<b>9030</b>	9224	8830	9203	9336	9784	8562	8322
Loc/Years Mean		<b>8717</b>	8962	8818	9163	8882	9572	8504	8468
Yield % M-103		<b>100.0</b>	<b>102.8</b>	<b>101.2</b>	<b>105.1</b>	<b>101.9</b>	<b>109.8</b>	<b>97.6</b>	<b>97.1</b>
Number of Tests		<b>20</b>	20	19	12	20	20	20	20

## 2003 San Joaquin County STRIP TRIAL YIELD

Variety	Grain Type	Grain Yield at 14% Moisture lbs/acre	Grain Moisture at Harvest (%)	Seedling Vigor (1-5)	Days to 50% Heading	Lodging (1-99)	Plant Height (in)
M-104	M	8540 (1)	19.8 (2)	5 (1)	87 (2)	4 (2)	32 (1)
M-206	M	8350 (2)	20.9 (1)	5 (1)	91 (3)	9 (3)	34 (3)
M-103	M	8100 (3)	18.2 (3)	5 (1)	81 (1)	2 (1)	33 (2)
MEAN		8330	19.6	5	86	5	33
CV		4.5	3.3		0.5	189.8	3.2
LSD (.05)			1.5		1		

M = medium

Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling emergence.

Subjective rating of 1-99 where 1 = none and 99 = completely lodged.

Numbers in parentheses indicate relative rank in column.

Planted: 5/16/03

Location: Burnley, Escalon, San Joaquin County

Harvested: 10/02/03

Variety Strip Trial  
Two year summary

	Yield 2002	Yield 2003
M103	<sup>3</sup> 7770	<sup>3</sup> 8106
M104	<sup>1</sup> 8770	<sup>1</sup> 8591
M206	<sup>2</sup> 8480	<sup>2</sup> 8354

Escalon trial

Variety Strip Trial  
Milling quality  
6 Harvest Dates (average)

Variety	% Moisture	Total	Whole Grain
M103	16.0	69.8	59.8
M206	18.9	68.5	61.1
M104	17.1	69.4	57.8

2003

Variety Strip Trial  
Milling quality  
4 Harvest Dates <25% & >12%

Variety	% Moisture	Total	Whole Grain
M103	18.1	69.6	64.5
M206	20.1	68.9	65.7
M104	19.5	69.3	62.1

2003

Variety Strip Trial  
Milling quality  
Late Harvest/Low Moisture

Variety	% Moisture	Total	Whole Grain
M103	11.9	70.1	50.4
M206	13.5	68.6	54.3
M104	12.2	69.9	49.2

2003