

Appendix B - Rice Variety Acres by Grain Type

Appendix
authors:

Kent McKenzie,
RES

Dana Dickey,
RRB

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Short Grain																	
S-101	20000	13575	1974														
S-102										7960	7070	9800	10464	7546	8943	9071	7879
S-201	35000	38473	10140	3450	11610	8800	25160	9860	4920	7690	3680	1150			1203		
Akitakomachi									4430	5270	15680	25350	10175	8438	5618	7497	5404
Koshihikari									1995	4740	9480	12100	6205	6136	6320	4659	6950
Calhikari-201													3822	1056			
Calmochi-101	4200	4327	4570	4280	8510	9720	14280	6240	5130	12500	19110	28230	11077	11230	13869	15843	19834
Calpearl		6177	5940	2040	3480	3240	1860	3510	2680	1340							
Subtotal		48977	20650	9770	23600	21760	41300	19610	19155	39500	55020	76630	41743	34406	35953	40135	42250
Medium Grain																	
M-103		448	8890	11930	18580	23610	13540	16060	15790	16860	28425	12100	11720	8055	2048	7756	822
M-104														29199	41862	62865	53964
M-201	65400	43503	43590	46390	34060	43990	26550	31530	47150	33410	14860	14980	6917	2440	1475	4000	
M-202	180000	235534	268460	210180	256970	305120	296330	303740	323950	315410	284170	335330	353879	232765	247200	221883	274693
M-204						36580	79400	58890	59800	67190	55490	55890	76320	62999	56629	33261	29116
M-205														37594	88497	69635	92746
M-401	26600	24534	30390	26700	32120	23150	37590	32770	38000	42630	30780	54740	33662	29898	32204	18607	33133
M-402													9194	5319	6607	9466	4628
Kukuhorose												11520	12527	12176	14842		
NFD 181												5190	4620	3061	3527		
Subtotal	272000	304019	351330	295200	341730	432450	453410	442990	484690	475500	413725	489750	508839	423506	494891	440238	541001
Long Grain																	
L-202	60000	39111	16980	6650	6970	460	100	1200	700	80							
L-203				530	10840	4170	1030	2190	1975	190							
L-204										2210	15580	3460	2093	1235	1200	1929	1812
L-205													2647	6472	2099	1893	86
A-201										470			1025	799	1203	1455	1002
A-301		357	1590							1390			1449	1700	1469	790	1562
Calmati-201													1202	1507	336	874	550
Subtotal	60000	39468	18570	7180	17810	4630	1130	3390	2675	4340	15580	3460	8416	11713	6307	7441	5012
Other	28800	4134	2430	3700	6630	4160	8160	9320	6190	9140	14495	6340	4550	1292	4153	2235	1980
Grand Total	400000	396598	392980	315850	389770	463000	504000	475310	512710	528480	498820	576180	563548	470917	541304	490049	590243

Appendix C - Characteristics of Public Varieties

Grain Type	Maturity	Year seed widely available	Stem Rot score ¹ (0-10)	Seedling vigor ² (1-5)	Comments
Short Grain					
S-102	Very Early ³	1998	5.6	4.3	Very high yield potential, two weeks earlier than S-201. Good resistance to blanking. Grain is 8% larger than S-201 and less chalky. Rough leaves and hulls, grain dries down rapidly during ripening. Susceptible to stem rot.
Medium Grain					
M-103	Very Early ³	1990	5.5	3.9	Earliest medium grain, vigor less than M-202. Excellent resistance to blanking. Very good head and total milled rice yields. Moderate lodging and good yield potential. Alternative variety for M-202 in coldest rice areas and for late planting in warmer areas.
M-104	Very Early ³	2002	5.6	4.4	Has potential as replacement for M-103 in San Joaquin Valley and as an alternative to M-202 in other cool rice areas. Improved seedling vigor, lodging resistance, and yield compared to M-103. Milling yields similar to M-103. Heads 8 to 10 days earlier than M-202. Early planting in warm areas could limit yield and quality.
M-202	Early	1987	5.8	4.4	Very high yield potential. Moderate lodging potential. Long time favorite variety that threshes easily.
M-204	Early	1993	5.7	4.2	Very high yield potential. Seedling vigor slightly less than M-202. Height 3 inches shorter and heading 3 days later than M-202. Better lodging resistance and improved total and head rice yields than M-202. Resistance to blanking similar to M-202. Threshes easily. Not recommended for Escalon, Natomas or other cool areas.
M-205	Early	2002	5.5	4.1	Very high yield potential. Seedling vigor slightly lower than M-202. Height and heading like M-204. Improved milling yields relative to M-202. Blanking resistance similar to M-204. Area of primary adaptation west of Hwy 70 and north of Hwy 20. Not recommended for Escalon, Natomas or other cool areas.
Long Grain					
L-204	Early	1998	5.6	4.1	High yield potential. Two days earlier than L-203. Resistant to lodging. Seedling vigor fair, may be affected by deep water. Improved head rice and cooking characteristics, better than L-202 and L-203. Avoid early draining (requires 40-45 days after 50% heading to mature) and harvest at 18-19% moisture to maximize milling yield.
L-205	Early	2001	5.7	3.9	Newrex type, dry cooking long grain. High yield potential. Two days later than L-204. Resistant to lodging. More resistant to blanking than L-204. Seedling vigor fair. Seed size smaller than L-204. Similar milling yield to L-204. Avoid early draining (requires 40-45 days after 50% heading to mature) and harvest at 16-18% moisture to maximize milling yield.
Premium Quality					
M-401	Late	1083	5.4	4.3	Premium quality medium grain rice with large kernels. Good yield potential but susceptible to blanking, lodging and damage from premature drainage. Use 20-25% less nitrogen than other medium grain varieties. Best adapted to warmer areas. Milling yields lower than other medium grain varieties.
M-402	Late	2001	5.4	4.2	Premium quality medium grain. Kernel size is smaller than M-401, much higher head rice potential. About 5-7 days earlier than M-401 with better straw strength. Adapted to warmer areas.
Calhikari-201	Early	2001	6.0	4.4	Premium quality short grain developed for the Japanese premium short-grain market. Has very good seedling vigor. A semi-dwarf with much greater yield potential and resistance to lodging than Japanese varieties. Rough leaves and hulls. Cold delays maturity and increases blanking. Use low nitrogen to maximize market quality.
Specialty Rice					
Calmochi-101	Very Early ^{3,4}	1987	5.6	4.2	A sweet glutinous rice. Two weeks earlier than S-201. Excellent resistance blanking, has rough leaves and hulls, no awns. Grain dries down rapidly during ripening.
A-201	Early ⁴	1998	6.2	4.2	Aromatic (popcorn aroma) long grain, eight days earlier than A-301. Moderate yield potential similar to L-202 and A-301. Becomes leafy under excessive nitrogen. Poor milling yield, use slower cylinder speed and harvest at 18-20% grain moisture. Air dry without heat to retain aroma.
Calmati-201	Early ⁴	2001	5.4	3.9	A basmati type aromatic long grain. Moderate yield potential. Five days later than L-204. Pubescent leaves and hull. Milling yield is considerably higher than A-201. Very susceptible to blanking and should not be grown in cool areas. Excessive nitrogen and late planting will delay maturity and increase blanking. Harvest at 17-18% grain moisture.
<p>1 - Average Stem rot score over the last four years where 0 = no damage and 10 = plant killed</p> <p>2 - Subjective rating of 1-5 where 1 = poor and 5 = excellent seedling vigor</p> <p>3 - Milling quality and yield may be reduced by early planting in warmer areas</p> <p>4 - Specialty varieties should not be grown unless arrangements have first been made with a marketing agency</p>					