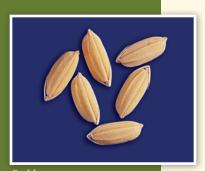
QUALITY CHARACTERIZATION OF CALIFORNIA PUBLIC RICE VARIETIES

M - 402



Paddy



Brown



Milled



M-402 is a late maturing premium quality medium grain released in 1999. It has a smaller kernel than M-401 and grains are more translucent and give higher milling yields. Its pedigree is: Kokuhorose/4/M7*2/M9//M7/3/M-401/Kokuhorose.

U.S. Market Type: Medium GrainQuality Type: Premium Medium Grain

	Year 1	Year 2	Year 3	Average
Grain Dimensions (Paddy)				
Average Length (mm)	8.42	8.27	8.27	8.32
Average Width (mm)	3.01	2.97	3.04	3.01
L/W Ratio	2.8	2.8	2.7	2.8
Grain Dimensions (Brown)				
Average Length (mm)	6.19	6.17	6.09	6.15
Average Width (mm)	2.69	2.66	2.75	2.70
L/W Ratio	2.3	2.3	2.2	2.3
1000 Grain Weight (g)	22.8	22.8	21.8	22.5
Grain Dimensions (Milled)				
Average Length (mm)	5.88	5.81	5.73	5.81
Average Width (mm)	2.63	2.58	2.63	2.61
L/W Ratio	2.2	2.2	2.2	2.2
Physicochemical Tests				
Apparent Amylose (%)	18.3	17.7	16.5	17.5
Alkali Spreading Value (1.7% KOH)	7.0	7.0	6.9	7.0
Protein (%)				
Brown	6.8	6.9	5.8	6.5
Milled	6.0	5.8	5.6	5.8
Rapid Visco Analyzer (AACC Method)				
Peak	234	269	233	245
Hot Paste	120	131	117	123
Cool Paste	214	226	203	214
Setback	-20	-43	-30	-31
Consistency	94	95	86	92
Breakdown	114	138	116	123
Pasting Temperature (°C)	69	70	70	70

^{*} Physicochemical testing provided by: the Rice Experiment Station and USDA-ARS Rice End-Use Quality Research Laboratory. Samples were grown and processed at the Rice Experiment Station. Research supported in-part by a grant from the California Rice Commission.