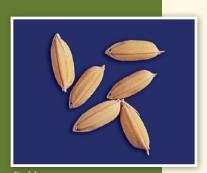
## QUALITY CHARACTERIZATION OF CALIFORNIA PUBLIC RICE VARIETIES

## M-401



Paddy



Brown



Milled



M-401 is a late maturing premium quality medium grain released in 1981. It is best adapted to the warm production areas. It has a large kernel and may give lower milling yields than other medium grains. M-401 is a semidwarf mutant of the proprietary variety Terso.

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

The state of the s				
	Year 1	Year 2	Year 3	Average
Grain Dimensions (Paddy)				
Average Length (mm)	8.83	8.61	8.68	8.71
Average Width (mm)	3.07	3.11	3.15	3.11
L/W Ratio	2.9	2.8	2.8	2.8
Grain Dimensions (Brown)				
Average Length (mm)	6.42	6.32	6.33	6.36
Average Width (mm)	2.80	2.78	2.83	2.80
L/W Ratio	2.3	2.3	2.2	2.3
1000 Grain Weight (g)	26.2	25.6	24.9	25.6
Grain Dimensions (Milled)				
Average Length (mm)	6.13	5.98	5.92	6.01
Average Width (mm)	2.73	2.72	2.69	2.71
L/W Ratio	2.3	2.2	2.2	2.2
Physicochemical Tests				
Apparent Amylose (%)	17.6	18.7	18.1	18.1
Alkali Spreading Value (1.7% KOH)	7.0	7.0	7.0	7.0
Protein (%)				
Brown	5.6	6.9	5.1	5.9
Milled	5.2	5.9	4.6	5.2
Rapid Visco Analyzer (AACC Method)				
Peak	225	253	231	236
Hot Paste	133	145	123	134
Cool Paste	232	246	218	232
Setback	7	-7	-13	-4
Consistency	89	101	95	95
Breakdown	101	108	107	105
Pasting Temperature (°C)	70	70	70	70

<sup>\*</sup> 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.