

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 Grain

Quality Type: Premium Medium Grain

	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 (%)				
<i>Brown</i>	5.6	6.9	5.1	5.9
<i>Milled</i>	5.2	5.9	4.6	5.2
Rapid Visco Analyzer (AACC Method)				
<i>Peak</i>	225	253	231	236
<i>Hot Paste</i>	133	145	123	134
<i>Cool Paste</i>	232	246	218	232
<i>Setback</i>	7	-7	-13	-4
<i>Consistency</i>	89	101	95	95
<i>Breakdown</i>	101	108	107	105
<i>Pasting Temperature (°C)</i>	70	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.