

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 Grain

Quality 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 (%)				
<i>Brown</i>	6.8	6.9	5.8	6.5
<i>Milled</i>	6.0	5.8	5.6	5.8
Rapid Visco Analyzer (AACC Method)				
<i>Peak</i>	234	269	233	245
<i>Hot Paste</i>	120	131	117	123
<i>Cool Paste</i>	214	226	203	214
<i>Setback</i>	-20	-43	-30	-31
<i>Consistency</i>	94	95	86	92
<i>Breakdown</i>	114	138	116	123
<i>Pasting Temperature (°C)</i>	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.