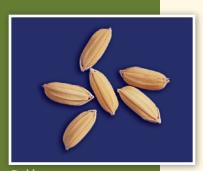
QUALITY CHARACTERIZATION OF CALIFORNIA PUBLIC RICE VARIETIES

M-104



Paddy



Brown



Milled



M-104 is a very early maturity medium grain released in 2000. It shows resistance to cool temperature sterility, shows high yield potential, and has a kernel size similar to M-202. Its pedigree is: M-103/6/M-102/4/M-201/3/M7/M9/5/M-103.

U.S. Market Type: Medium Grain

Quality Type: Calrose

| Cuanty Type. Canose | | | | |
|------------------------------------|--------|--------|--------|---------|
| | Year 1 | Year 2 | Year 3 | Average |
| Grain Dimensions (Paddy) | | | | |
| Average Length (mm) | 8.56 | 8.46 | 8.64 | 8.55 |
| Average Width (mm) | 3.07 | 3.11 | 3.16 | 3.11 |
| L/W Ratio | 2.8 | 2.7 | 2.7 | 2.7 |
| Grain Dimensions (Brown) | | | | |
| Average Length (mm) | 6.31 | 6.26 | 6.41 | 6.33 |
| Average Width (mm) | 2.79 | 2.72 | 2.75 | 2.75 |
| L/W Ratio | 2.3 | 2.3 | 2.3 | 2.3 |
| 1000 Grain Weight (g) | 24.4 | 24.0 | 23.9 | 24.1 |
| Grain Dimensions (Milled) | | | | |
| Average Length (mm) | 5.86 | 5.88 | 6.05 | 5.93 |
| Average Width (mm) | 2.71 | 2.66 | 2.67 | 2.68 |
| L/W Ratio | 2.2 | 2.2 | 2.3 | 2.2 |
| Physicochemical Tests | | | | |
| Apparent Amylose (%) | 18.2 | 17.6 | 17.6 | 17.8 |
| Alkali Spreading Value (1.7% KOH) | 6.9 | 6.4 | 6.0 | 6.4 |
| Protein (%) | | | | |
| Brown | 8.4 | 8.0 | 7.1 | 7.8 |
| Milled | 7.6 | 6.9 | 6.5 | 7.0 |
| Rapid Visco Analyzer (AACC Method) | | | | |
| Peak | 259 | 290 | 251 | 267 |
| Hot Paste | 142 | 161 | 139 | 147 |
| Cool Paste | 257 | 274 | 251 | 261 |
| Setback | -2 | -16 | 0 | -6 |
| Consistency | 104 | 113 | 112 | 110 |
| Breakdown | 127 | 129 | 112 | 123 |
| Pasting Temperature (°C) | 74 | 74 | 74 | 74 |

^{*} 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.