

Breeding Cross Obs from Institute of Crop Science Chinese

| Pedigree | Days to | | Height (cm) | | Tassel | | Percent of | | Grain | | Ear (cm) | | |
|-----------------|------------|--------|-------------|-------|--------|-------------|---------------|--------|--------|---------------|----------|--------|----------|
| | Tasselling | Pollen | Silking | Plant | Ear | Length (cm) | # of Branches | Barren | Double | Yld/plant (g) | Rate (%) | Length | Diameter |
| | | | | | | | | plant | Ear | | | | |
| FS8A(S):S09 | 68 | 70 | 73 | 261.0 | 99.7 | 36.7 | 11.3 | 8.7% | 0.0% | 103.67 | 81.7% | 16.0 | 4.1 |
| AR16026:F27 | 68 | 70 | 73 | 254.0 | 107.3 | 39.0 | 16.3 | 7.7% | 2.7% | 93.00 | 81.0% | 17.0 | 4.0 |
| AR13026:N08d07 | 63 | 67 | 68 | 245.7 | 94.0 | 39.0 | 11.3 | 5.0% | 1.0% | 94.67 | 87.0% | 17.3 | 3.8 |
| AR17056:N20 | 65 | 68 | 70 | 258.3 | 104.0 | 38.3 | 13.0 | 5.7% | 2.3% | 97.00 | 82.0% | 16.7 | 4.0 |
| BR52051:S17 | 71 | 74 | 76 | 273.0 | 119.0 | 40.3 | 11.0 | 11.7% | 5.3% | 82.67 | 80.7% | 17.7 | 3.8 |
| CH05015:N12 | 65 | 67 | 70 | 254.3 | 102.7 | 38.0 | 12.0 | 4.3% | 0.0% | 78.67 | 83.7% | 14.3 | 4.0 |
| CHIS775:N1920 | 68 | 71 | 73 | 262.3 | 106.0 | 37.0 | 10.7 | 4.0% | 0.7% | 120.00 | 85.3% | 17.0 | 4.0 |
| CML287:S18 | 72 | 74 | 76 | 284.7 | 125.0 | 37.0 | 12.3 | 11.3% | 2.0% | 77.00 | 79.3% | 16.0 | 3.7 |
| CUBA164:S20 | 71 | 73 | 77 | 282.3 | 126.3 | 37.0 | 12.7 | 16.0% | 2.3% | 85.67 | 80.7% | 15.3 | 4.2 |
| DKB844:S16 | 72 | 74 | 76 | 294.0 | 134.3 | 34.3 | 10.0 | 5.0% | 1.0% | 105.67 | 81.3% | 16.0 | 4.2 |
| DKXL370:N11a20 | 67 | 69 | 71 | 263.0 | 96.3 | 37.7 | 8.7 | 3.3% | 0.7% | 90.00 | 83.7% | 15.7 | 3.9 |
| PASCO14:S21 | 73 | 76 | 78 | 274.0 | 124.0 | 38.0 | 13.7 | 7.0% | 0.0% | 103.67 | 80.7% | 15.0 | 4.3 |
| NEI9004:S28 | 69 | 72 | 74 | 259.3 | 109.0 | 39.7 | 12.3 | 6.3% | 1.7% | 83.67 | 80.3% | 14.3 | 4.0 |
| BARBGP2:S08a | 73 | 77 | 80 | 278.3 | 137.3 | 39.3 | 15.7 | 11.3% | 5.0% | 97.33 | 82.7% | 15.7 | 4.3 |
| CUBA164:S2008b | 68 | 71 | 72 | 251.3 | 100.7 | 37.3 | 9.7 | 11.0% | 0.0% | 92.00 | 81.3% | 16.3 | 4.1 |
| DK212T:S11b | 68 | 71 | 73 | 260.3 | 107.7 | 38.0 | 12.7 | 4.7% | 3.3% | 97.67 | 80.7% | 16.7 | 3.9 |
| CML247:N18 | 73 | 75 | 77 | 261.3 | 115.3 | 36.0 | 12.0 | 16.3% | 2.7% | 97.67 | 81.7% | 16.3 | 3.8 |
| CML325:N13 | 68 | 71 | 72 | 262.7 | 103.7 | 36.0 | 13.0 | 9.0% | 3.7% | 97.67 | 83.0% | 17.0 | 3.8 |
| AR17026:N1014 | 66 | 68 | 69 | 267.0 | 103.7 | 37.0 | 7.7 | 2.3% | 1.7% | 110.00 | 85.3% | 17.3 | 3.9 |
| AR17056:S1217 | 63 | 67 | 69 | 253.0 | 98.7 | 35.3 | 9.3 | 2.3% | 1.7% | 96.00 | 85.0% | 16.3 | 3.9 |
| BVIR103:S0411a | 66 | 68 | 71 | 257.7 | 100.7 | 37.0 | 11.3 | 5.3% | 9.0% | 99.33 | 85.0% | 15.3 | 4.1 |
| CH05015:N12F44 | 66 | 68 | 71 | 260.7 | 105.0 | 37.7 | 11.7 | 3.0% | 1.0% | 103.00 | 82.7% | 17.0 | 4.0 |
| CUBA117:S1520 | 67 | 70 | 72 | 264.7 | 100.3 | 38.0 | 10.0 | 11.0% | 2.3% | 89.00 | 81.0% | 14.7 | 4.1 |
| CUBA164:T26aS41 | 67 | 70 | 72 | 270.7 | 105.0 | 38.7 | 11.3 | 3.3% | 9.3% | 111.67 | 85.3% | 15.7 | 4.1 |
| DKXL370:N11a14 | 69 | 71 | 72 | 269.3 | 103.0 | 39.0 | 5.7 | 2.7% | 3.3% | 110.00 | 85.7% | 16.0 | 3.9 |
| DKXL370:S08d | 68 | 71 | 72 | 270.0 | 105.7 | 39.7 | 7.3 | 7.3% | 0.0% | 108.00 | 83.0% | 18.7 | 3.8 |
| DKXL380:N11a14 | 70 | 72 | 73 | 275.7 | 108.0 | 38.0 | 7.3 | 3.0% | 2.3% | 108.00 | 86.0% | 17.0 | 3.8 |
| FS8B(T):N11a14 | 68 | 71 | 71 | 268.7 | 103.7 | 37.0 | 7.0 | 2.3% | 5.7% | 113.00 | 88.0% | 16.0 | 4.0 |
| GUAD05:N0614 | 69 | 71 | 72 | 276.0 | 111.0 | 38.3 | 8.0 | 1.7% | 5.3% | 108.67 | 82.7% | 18.0 | 3.7 |

| | | | | | | | | | | | | | |
|---------------------|----|----|----|-------|-------|------|------|-------|------|--------|-------|------|-----|
| UR01089:S05 | 62 | 65 | 67 | 251.7 | 98.7 | 36.7 | 13.0 | 1.0% | 0.7% | 81.33 | 83.3% | 16.3 | 3.7 |
| UR05017:S0414 | 68 | 70 | 72 | 265.7 | 102.3 | 38.0 | 9.7 | 11.3% | 3.0% | 98.33 | 83.3% | 14.7 | 4.0 |
| UR10001:N1708e | 62 | 65 | 67 | 259.3 | 99.0 | 39.0 | 11.3 | 3.0% | 0.7% | 90.00 | 85.0% | 16.7 | 3.8 |
| UR13010:N0614 | 68 | 70 | 71 | 269.0 | 108.7 | 37.7 | 7.0 | 3.7% | 2.0% | 113.33 | 85.0% | 17.3 | 4.0 |
| UR13085:S1912 | 67 | 69 | 71 | 265.7 | 106.3 | 36.0 | 9.0 | 6.7% | 1.7% | 86.67 | 83.3% | 14.7 | 3.8 |
| CUBA164:T26bS41 | 69 | 72 | 75 | 265.3 | 110.3 | 38.0 | 13.3 | 5.7% | 4.0% | 90.33 | 84.3% | 15.0 | 3.9 |
| PASCO14:N04 | 74 | 76 | 78 | 276.7 | 128.3 | 38.3 | 14.3 | 3.0% | 4.0% | 120.00 | 81.0% | 18.7 | 4.2 |
| BR106:S99e99j | 70 | 73 | 75 | 269.7 | 109.7 | 38.0 | 11.3 | 9.3% | 3.7% | 104.67 | 85.0% | 17.7 | 3.7 |
| BR105:S99n99n | 66 | 69 | 71 | 268.3 | 105.0 | 36.7 | 8.3 | 0.0% | 5.7% | 104.00 | 84.7% | 17.0 | 3.9 |
| BR106:S99n99n | 67 | 70 | 72 | 267.0 | 104.7 | 37.7 | 8.7 | 0.0% | 6.3% | 98.67 | 84.3% | 16.3 | 3.9 |
| CUBA164:S99n99n | 65 | 68 | 71 | 268.7 | 105.0 | 37.3 | 10.0 | 4.3% | 1.3% | 88.67 | 82.7% | 15.3 | 4.0 |
| BR105:N99v99v | 68 | 71 | 73 | 276.7 | 112.7 | 38.3 | 12.0 | 12.3% | 5.3% | 89.33 | 78.7% | 16.7 | 3.8 |
| BR106:N99v99v | 69 | 72 | 74 | 278.3 | 116.3 | 41.0 | 12.0 | 6.3% | 2.0% | 87.33 | 79.7% | 15.3 | 3.8 |
| CUBA164:N99v99v | 69 | 71 | 75 | 273.3 | 111.3 | 38.7 | 12.3 | 12.0% | 2.0% | 94.67 | 79.7% | 16.3 | 3.9 |
| BIGWHITE:S99x | 67 | 69 | 71 | 276.0 | 110.0 | 37.3 | 9.3 | 3.7% | 1.3% | 122.33 | 82.7% | 16.0 | 4.5 |
| UR10001:S99x | 67 | 69 | 71 | 275.3 | 113.0 | 37.7 | 11.3 | 8.7% | 1.3% | 127.00 | 83.7% | 17.0 | 4.4 |
| B73xMo17 | 65 | 67 | 68 | 272.3 | 105.3 | 38.7 | 9.3 | 2.0% | 0.7% | 140.00 | 87.3% | 18.0 | 4.3 |
| GEMS-0147/GEMS-0115 | 68 | 70 | 72 | 262.7 | 106.0 | 34.7 | 10.0 | 11.7% | 0.0% | 100.33 | 85.0% | 14.0 | 4.3 |
| GEMN-0156/MBNA | 66 | 69 | 70 | 266.3 | 105.3 | 38.7 | 8.3 | 1.7% | 0.0% | 144.67 | 85.3% | 17.0 | 4.4 |
| GEMN-0156/GEMN-0139 | 64 | 67 | 69 | 264.3 | 105.3 | 38.0 | 11.7 | 0.0% | 0.7% | 118.67 | 85.7% | 17.3 | 4.1 |
| ZD958 (local CK)4 | 69 | 70 | 71 | 256.3 | 106.0 | 37.0 | 14.3 | 0.0% | 2.7% | 173.33 | 88.7% | 17.0 | 4.8 |

Average of 3 environments: Xinxiang, Beijing, Gongzhuling

Academy of Agricultural Sciences

| Cob | | Kernel | | Kernel (mm) | | | Kernel type | Cob color | Kernel color |
|---------------|-------|--------|------------|-------------|-------|-----------|-------------|------------|---------------|
| Diameter (cm) | row # | #/row | Wt (g)/100 | Length | Width | Thickness | | | |
| 2.9 | 15.3 | 30.0 | 30.0 | 11.2 | 7.7 | 4.2 | flint | red, white | yellow |
| 2.9 | 15.0 | 34.0 | 25.3 | 10.1 | 8.1 | 4.3 | flint | white | yellow |
| 2.5 | 13.3 | 35.0 | 25.0 | 10.7 | 8.6 | 4.1 | flint | red, white | yellow |
| 2.7 | 15.0 | 31.0 | 28.7 | 10.6 | 8.2 | 4.4 | flint | red, white | yellow |
| 2.7 | 14.0 | 30.7 | 28.0 | 10.8 | 8.4 | 4.3 | dent | red | yellow |
| 2.7 | 14.3 | 27.7 | 25.0 | 10.4 | 8.7 | 5.0 | flint | red, white | yellow |
| 2.5 | 15.7 | 37.3 | 25.3 | 11.9 | 7.8 | 4.5 | dent | red, white | yellow, white |
| 2.6 | 14.0 | 30.3 | 23.7 | 10.1 | 8.1 | 4.9 | dent | red, white | yellow |
| 2.8 | 14.3 | 30.7 | 27.3 | 10.6 | 8.5 | 4.6 | semi-dent | red, white | yellow |
| 3.1 | 16.0 | 33.3 | 24.3 | 12.0 | 8.0 | 3.9 | dent | red, white | yellow |
| 2.6 | 16.3 | 32.7 | 22.7 | 10.9 | 7.4 | 3.7 | dent | red | yellow |
| 2.9 | 15.7 | 29.3 | 30.0 | 11.7 | 8.2 | 4.1 | semi-dent | red, white | yellow |
| 2.8 | 15.0 | 30.3 | 27.0 | 10.8 | 8.0 | 4.0 | semi-dent | red, white | yellow |
| 2.6 | 14.7 | 31.0 | 27.3 | 12.0 | 8.7 | 4.0 | semi-dent | red, white | yellow |
| 2.6 | 14.7 | 32.3 | 26.7 | 10.9 | 8.2 | 4.2 | semi-dent | red | yellow |
| 2.7 | 14.3 | 32.0 | 27.0 | 10.5 | 8.0 | 4.3 | semi-dent | red, white | yellow |
| 2.6 | 13.0 | 34.7 | 25.7 | 10.6 | 8.4 | 3.9 | dent | white, red | yellow |
| 2.6 | 14.3 | 30.3 | 30.3 | 10.7 | 8.2 | 4.7 | dent | red, white | yellow |
| 2.5 | 13.3 | 34.7 | 31.0 | 10.7 | 8.8 | 4.3 | semi-dent | red, white | yellow |
| 2.5 | 14.7 | 32.3 | 26.3 | 10.8 | 7.9 | 3.9 | semi-dent | red, white | yellow |
| 2.6 | 14.3 | 32.3 | 26.7 | 11.6 | 8.2 | 3.7 | semi-dent | red, white | yellow |
| 2.7 | 14.3 | 29.7 | 30.3 | 10.5 | 8.9 | 4.5 | flint | red, white | yellow |
| 2.8 | 15.3 | 27.7 | 27.3 | 10.7 | 8.1 | 4.3 | semi-dent | red, white | yellow |
| 2.4 | 14.0 | 34.3 | 29.7 | 11.9 | 8.4 | 3.8 | semi-dent | red, white | yellow |
| 2.5 | 13.3 | 33.7 | 31.0 | 11.6 | 8.4 | 3.8 | dent | red, white | yellow |
| 2.5 | 14.0 | 34.7 | 30.3 | 11.2 | 8.3 | 4.4 | dent | red, white | yellow |
| 2.5 | 12.7 | 35.0 | 30.7 | 11.4 | 8.7 | 4.1 | dent | red, white | yellow |
| 2.3 | 13.3 | 34.3 | 29.3 | 11.5 | 8.7 | 3.9 | dent | red, white | yellow |
| 2.7 | 13.3 | 35.7 | 27.7 | 10.8 | 8.6 | 4.2 | dent | white, red | yellow |

| | | | | | | | | | |
|-----|------|------|------|------|-----|-----|-----------|------------|---------------|
| 2.5 | 14.0 | 33.7 | 23.3 | 10.3 | 8.2 | 3.8 | flint | red, white | yellow |
| 2.5 | 13.7 | 28.7 | 27.0 | 11.1 | 8.3 | 4.1 | flint | red | yellow |
| 2.5 | 14.7 | 34.3 | 23.7 | 10.5 | 7.8 | 4.1 | dent | red | yellow |
| 2.6 | 13.0 | 34.7 | 31.3 | 11.2 | 8.9 | 4.1 | dent | white、 red | yellow |
| 2.6 | 14.3 | 27.7 | 28.7 | 10.7 | 8.1 | 4.3 | semi-dent | white、 red | yellow |
| 2.6 | 14.7 | 31.7 | 25.0 | 11.0 | 8.0 | 3.9 | semi-dent | redwhite | yellow |
| 2.8 | 14.3 | 35.0 | 31.3 | 11.3 | 8.5 | 4.3 | semi-dent | red, white | yellow |
| 2.4 | 13.0 | 35.7 | 27.7 | 10.6 | 8.5 | 4.1 | semi-dent | white | yellow |
| 2.5 | 13.3 | 36.0 | 26.7 | 10.8 | 8.7 | 3.9 | semi-dent | red | yellow |
| 2.5 | 13.3 | 34.7 | 27.7 | 11.1 | 8.8 | 3.9 | semi-dent | red | yellow |
| 2.6 | 14.3 | 31.0 | 24.3 | 10.7 | 8.4 | 3.9 | semi-dent | red | yellow |
| 2.6 | 13.0 | 31.0 | 32.0 | 10.7 | 8.6 | 4.4 | dent | red | yellow |
| 2.6 | 13.3 | 28.7 | 29.7 | 10.9 | 8.6 | 4.4 | dent | red | yellow |
| 2.6 | 14.3 | 30.7 | 29.3 | 10.8 | 8.2 | 4.2 | semi-dent | red | yellow |
| 2.9 | 17.3 | 31.3 | 29.0 | 11.9 | 7.8 | 3.9 | dent | white | yellow, white |
| 2.9 | 16.3 | 35.0 | 25.3 | 11.5 | 8.1 | 3.9 | dent | white | yellow, white |
| 2.7 | 14.7 | 42.3 | 25.3 | 12.2 | 8.5 | 3.7 | dent | red | yellow |
| 2.6 | 17.0 | 29.7 | 27.3 | 11.6 | 7.5 | 3.8 | dent | red, white | yellow |
| 2.6 | 13.0 | 39.0 | 32.0 | 11.9 | 9.3 | 3.7 | dent | red | yellow |
| 2.7 | 13.0 | 41.0 | 27.7 | 11.3 | 9.3 | 3.7 | dent | red | yellow |
| 2.8 | 15.7 | 36.7 | 37.3 | 13.4 | 9.3 | 3.8 | semi-dent | white | yellow |