

**ZANGGER POPCORN HYBRIDS
HYBRID TEST PLOT 2004
LOCATION NORTH LOUP, NEBRASKA**

| VARIETY | KCT # OF KERNALS IN TEN GRAMS | OIL EXPANSION | % MUSHROOM OR BALL IN OIL | TASTE SCORE 5=VERY TENDER, 1=TOUGH AS CARDBOARD | HULL SCORE 5=NO HULLS, 1=SHARP LARGE HULLS | MICROWAVE EXPANSION | AIR, HOT EXPANSION | % MUSHROOM OR BALL IN HOT AIR | HARVEST MOISTURE | % BROKEN STALKS | YIELD AT 15% MOISTURE | DAYS FROM PLANTING TO 50% SILK | AGRONOMIC COMPOSITE SCORE, SUM OF VAR. | QUALITY, COMPOSITE SCORE SUM OF VAR. |
|---------|-------------------------------|---------------|---------------------------|---|--|---------------------|--------------------|-------------------------------|------------------|-----------------|-----------------------|--------------------------------|--|--------------------------------------|
| N1160 | 56.0 | 48.0 | 0.0 | 3.8 | 3.8 | 0.0 | 3185.0 | 0.0 | 16.1 | 22.0 | 7749.0 | 69.5 | 13.5 | 16.4 |
| N11850 | 51.0 | 47.0 | 10.0 | 3.7 | 3.6 | 0.0 | 2980.0 | 40.0 | 16.1 | 4.0 | 6850.0 | 70.0 | 16.8 | 15.0 |
| R128YH | 70.0 | 49.0 | 0.0 | 4.0 | 4.5 | 0.0 | 3150.0 | 0.0 | 15.0 | 20.0 | 6300.0 | 72.0 | 13.4 | 17.1 |
| N11649 | 59.0 | 43.0 | 0.0 | 3.3 | 3.3 | 0.0 | 3115.0 | 0.0 | 17.3 | 12.0 | 6154.0 | 69.5 | 14.3 | 13.8 |
| N3134 | 57.0 | 44.8 | 0.0 | 3.8 | 3.5 | 0.0 | 3280.0 | 0.0 | 16.2 | 14.0 | 6021.0 | 69.5 | 16.1 | 15.6 |
| N11780 | 56.0 | 46.6 | 0.0 | 4.0 | 4.0 | 0.0 | 3350.0 | 0.0 | 15.2 | 7.0 | 5996.0 | 68.5 | 16.5 | 16.7 |
| N31156 | 54.0 | 44.5 | 0.0 | 3.7 | 3.4 | 0.0 | 3075.0 | 0.0 | 18.1 | 14.0 | 5989.0 | 70.5 | 15.6 | 14.8 |
| N1115 | 58.0 | 43.3 | 0.0 | 3.5 | 3.5 | 0.0 | 3100.0 | 0.0 | 17.2 | 7.0 | 5383.0 | 69.0 | 16.1 | 15.1 |
| N111 | 62.0 | 44.5 | 0.0 | 4.5 | 4.5 | 0.0 | 3300.0 | 0.0 | 17.3 | 19.5 | 5174.0 | 69.5 | 14.1 | 17.6 |
| N114649 | 58.7 | 42.7 | 0.0 | 3.8 | 3.4 | 0.0 | 3183.3 | 0.0 | 17.4 | 13.7 | 5053.7 | 67.7 | 14.6 | 15.3 |
| N11426 | 60.0 | 44.0 | 0.0 | 3.3 | 3.2 | 0.0 | 3230.0 | 0.0 | 18.0 | 9.0 | 5000.0 | 69.0 | 13.6 | 14.2 |
| N31426 | 59.0 | 45.0 | 0.0 | 4.0 | 3.5 | 0.0 | 3150.0 | 10.0 | 16.5 | 7.0 | 5000.0 | 70.5 | 14.8 | 14.8 |
| N11830 | 53.0 | 39.0 | 65 B | 3.4 | 3.3 | 0.0 | 2575.0 | 80 B | 16.3 | 6.0 | 4995.0 | 68.0 | 16.1 | 13.8 |
| MC2101 | 62.0 | 48.3 | 0.0 | 4.3 | 3.6 | 0.0 | 3215.0 | 0.0 | 16.3 | 16.0 | 4690.0 | 70.5 | 15.5 | 17.0 |
| AP416 | 59.0 | 45.0 | 0.0 | 3.8 | 3.7 | 0.0 | 3100.0 | 0.0 | 18.2 | 19.0 | 4520.0 | 74.0 | 14.4 | 15.8 |

Test Plot was planted on May 12th on 20' rows 38" spacing with furrow irrigation. Weater in May was cool, followed by an overall cool summer. Moisture was average until August with a total of .95" for the month. The fall turned out to be very wet and cool. The Plot experienced extreme stress. On July 12th 100 mph winds, golfball size and larger hail, and tornado in the vicinity resulted in 60% to 65% defoliation among other things. In late September T-storm brought 80 to 90 mph straight line winds. Plot was harvested Oct. 16th.

**HYBRID TEST PLOT 2003
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| VARIETY | KCT # OF KERNALS IN TEN GRAMS | OIL EXPANSION | % OF MUSHROOM OR BALL IN OIL | TASTE SCORE 5=VERY TENDER, 1=TOUGH AS CARDBOARD | HULL SCORE 5=NO HULLS, 1=SHARP LARGE HULLS | MICROWAVE EXPANSION | AIR, HOT EXPANSION | % MUSHROOM OR BALL HOT AIR | HARVEST MOISTURE | % BROKEN STALKS | YIELD AT 15% MOISTURE | DAYS FROM PLANTING TO 50% SILK | COMPOSITE SCORE, SUM OF VAR. | QUALITY, COMPOSITE SCORE |
|---------|-------------------------------|---------------|------------------------------|---|--|---------------------|--------------------|----------------------------|------------------|-----------------|-----------------------|--------------------------------|------------------------------|--------------------------|
| N11830 | 51.0 | 37.0 | 80.0 | 3.5 | 3.0 | 2500.0 | 2500.0 | 97B | 16.0 | 0.0 | 7800.0 | | 30.8 | 12.3 |
| N11850 | 52.0 | 46.0 | 10.0 | 3.8 | 4.0 | 2950.0 | 3350.0 | 0.0 | 17.0 | 0.0 | 7716.0 | | 30.9 | 14.0 |
| N11649 | 64.0 | 46.5 | 0.0 | 3.8 | 4.0 | 2850.0 | 3200.0 | 0.0 | 16.3 | 5.0 | 7400.0 | | 30.5 | 14.2 |
| N1160 | 62.0 | 52.0 | 0.0 | 4.0 | 4.5 | 0.0 | 0.0 | 0.0 | 14.7 | 6.0 | 7320.0 | | 32.0 | 17.0 |
| N11426 | 66.0 | 46.0 | 0.0 | 4.5 | 4.5 | 2850.0 | 3200.0 | 0.0 | 16.3 | 4.0 | 6970.0 | | 32.8 | 15.4 |
| N3134 | 61.0 | 47.0 | 0.0 | 4.0 | 4.0 | 2750.0 | 2900.0 | 0.0 | 15.7 | 5.0 | 6820.0 | 66.0 | 34.4 | 16.3 |
| N31426 | 59.0 | 44.0 | 0.0 | 3.0 | 4.0 | 0.0 | 0.0 | 0.0 | 15.2 | 14.0 | 6729.0 | 67.0 | 29.4 | 13.8 |
| N31156 | 65.0 | 47.0 | 0.0 | 3.5 | 3.5 | 0.0 | 3350.0 | 0.0 | 16.3 | 4.0 | 6587.0 | 67.0 | 30.6 | 14.0 |
| N114649 | 67.7 | 47.2 | 0.0 | 3.2 | 3.2 | 2850.0 | 3450.0 | 0.0 | 14.6 | 8.0 | 6477.7 | 65.5 | 31.1 | 14.1 |
| N1115 | 66.0 | 47.5 | 0.0 | 4.0 | 4.0 | 3000.0 | 3300.0 | 5M | 15.0 | 10.0 | 6300.0 | | 33.1 | 16.0 |
| N11780 | 59.0 | 51.0 | 0.0 | 4.0 | 3.5 | 0.0 | 0.0 | 0.0 | 15.2 | 1.0 | 6286.0 | 70.0 | 30.4 | 15.0 |
| MC2101 | 62.0 | 48.0 | 0.0 | 3.5 | 4.0 | 2750.0 | 3300.0 | 0.0 | 14.4 | 6.0 | 6017.0 | 66.0 | 33.0 | 15.7 |
| R128YH | 72.0 | 48.0 | 0.0 | 4.0 | 4.5 | 2750.0 | 3200.0 | 0.0 | 16.0 | 14.0 | 5857.0 | | 31.9 | 16.3 |
| N111 | 65.0 | 48.0 | 0.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 17.3 | 10.0 | 5844.0 | 66.0 | 33.0 | 17.2 |
| AP416 | 68.0 | 48.0 | 0.0 | 4.0 | 3.0 | 3000.0 | 2700.0 | 10M | 16.3 | 6.0 | 5839.0 | | 32.8 | 15.5 |

Test Plot was planted on May 17th, in 20' rows, 38" spacing, weather was typical, recent drought condition until August when the days and nights cooled off, allowing for

excellent expression in quality and yields.