

**ZANGGER POPCORN HYBRIDS  
HYBRID RESEARCH PLOT 2008  
CLEARWATER, (NORTHEAST) 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	AIR, HOT EXPANSION	% MUSHROOM OR BALL IN HOT AIR	KERNAL SHAPE 1= ROUND 3= POINTED/ RICE TYPE F=FLAT	HARVEST MOISTURE	% BROKEN STALKS	YIELD AT 14% MOISTURE	LODGING 5=NONE 1= 100%- 75% LODGED	AGRONOMIC COMPOSITE SCORE SUM OF VAR.	QUALITY, COMPOSITE SCORE SUM OF VAR.
<b>EX 4</b>	56	46.5	0	3.0	3.0	2650	80M	1.8	18.7	20	<b>9851</b>	4.2	26.6	14.5
<b>N54830</b>	37	31.1	<b>93B</b>	2.0	2.0	1725	<b>99B</b>	1.4	16.0	5	9341	<b>5.0</b>	26.8	10.9
<b>EX 15</b>	66	48.5	0	<b>4.0</b>	2.5	2500	0	1.7	18.6	<b>0</b>	9091	<b>5.0</b>	<b>27.5</b>	15.3
<b>N11649</b>	56	43.3	0	3.3	3.0	NR	0	2.3	17.5	27	7720	4.2	25.8	14.0
<b>N15820</b>	60	48.0	0	3.4	<b>3.4</b>	NR	0	2.3/F	<b>14.9</b>	60	6788	3.6	22.0	<b>15.8</b>
<b>N8156</b>	59	47.2	0	3.3	2.7	NR	0	2.3/F	16.1	50	6719	4.3	23.3	14.6
<b>N11830 Field</b>	50	33.0	75B	2.0	2.0	2450	75B	1.5	<b>14.0</b>	25	6645	4.5	NR	NR
<b>N42820</b>	65	47.7	0	3.5	3.0	NR	0	2.3	15.2	88	6542	4.0	24.6	14.7
<b>N11830</b>	51	35.1	71B	2.0	2.0	2338	73B	1.8	15.9	51	6431	<b>5.0</b>	26.3	10.6
<b>N1160</b>	61	<b>48.7</b>	0	3.7	3.3	NR	0	2.3	16.9	95	5576	3.6	23.5	15.0

The Clearwater Plot was planted May 17, 2008 on sandy silt loam soil. The plot was planted on 22 inch rows with a final population of approx 28,000 plants per acre. The plot was pivot irrigated. Lodging and Agronomic observations were done August 18th The plot was hand harvested November 1st. Each hybrids data is the average of four repetitions. The plot experienced several high wind events and some snow before harvest. The test plot was subjected to bacterial wilt and stalk rot.

**The Research Plot data was derived by the following means:**

Oil Expansion: A metric weight to volume test. The seed is popped in the new model Cretors popper. A 250 gram sample was cleaned and ran over a 12/64 screen. They were popped in peanut oil. Samples were conditioned to 14% moisture in our conditioning room and stored for at least three weeks before popping them. The samples were all hand shelled. We have popping samples that were combined on some of our hybrids please contact us for that info.

Hot Air Expansion: A 70 gram sample was placed in a Presto X air popper. Then popped about 2.5 minutes and measured by the cubic centimeter. Percent round balls is the ratio of completely popped balls to non popped balls of this sample.

Havest Moisture: Moisture of kernals at harvest

% Broken Stalks: Percent of broken stalks below the ear at harvest

Agronomic Composite Score: Numerical score achieved by adding values from the following weighted values: Ear tip condition, Ear size, Leaf size, Lodging, Stalk, Braceroots, and Plant disease.

Quality Composite Score: Numerical score achieved by adding values from the following weighted values: taste, hulls, kernal color, and split.