

**ZANGGER POPCORN HYBRIDS
HYBRID RESEARCH PLOT 2006
LOCATION: CLEARWATER, (NE) NEBRASKA**

VARIETY	KCT # OF KERNELS 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	KERNAL SHAPE 1= ROUND 3= POINTED/RICE TYPE F=FLAT	AIR, HOT EXPANSION	% MUSHROOM OR BALL IN HOT AIR	YIELD AT 14% MOISTURE	BROKEN STALKS %	HARVEST MOISTURE	LODGING 5= NONE 1= 100%-75% LODGED	AGRONOMIC COMPOSITE SCORE, SUM OF VAR.	QUALITY, COMPOSITE SCORE SUM OF VAR.
EX54830	39.0	31.5	95B	2.6	2.6	1.3	2113	98B	7252	5	15.3	5.0	28.1	11.7
N11830	49.5	35.0	72B	2.5	2.5	1.9	2613	73B	6294	1	15.8	5.0	27.6	12.0
EX15820	58.0	48.0	0	3.7	3.5	2.2/F	3700	0	7611	1	15.4	4.3	24.6	16.3
N3115649	59.0	40.5	0	3.0	3.0	1.8	0	0	7731	15	17.1	1.3	22.3	12.8
N1160	56.0	45.0	0	3.5	3.5	2.5	0	0	7438	21	16.7	1.5	21.6	14.3
N3134	55.0	45.5	0	4.0	3.5	2.5	0	0	7366	6	16.4	3.7	23.3	14.9
N1115	58.0	44.0	0	3.5	3.5	2.3	0	0	7227	3	16.9	1.5	21.0	14.4
N11850	54.0	45.5	0	3.5	3.5	1.2	0	0	7111	15	17.0	1.5	24.5	14.3
N11649	66.0	45.0	0	3.5	3.5	2.5	0	0	6795	8	17.3	1.5	22.6	13.9
EXS1M830	54.0	33.5	90B	3.0	2.5	1.4/F	2500	60B	6773	5	16.3	5.0	22.7	11.9
N1142649	62.0	43.5	0	3.5	3.0	1.5/F	0	0	6553	15	16.9	1.7	22.7	14.1
EX42820	63.0	45.0	0	4.0	3.5	1.7/F	0	0	6475	26	19.4	1.3	18.5	14.6
EX14215	63.0	43.5	0	3.5	3.0	1.9	0	0	6244	9	17.8	5.0	25.4	14.0
N111	67.0	48.5	0	4.5	4.5	2.5	0	0	5648	8	17.2	NA	NA	16.8
EX151142	57.0	45.5	0	3.5	3.5	2.2	3000	0	5293	8	16.6	2.0	19.1	15.7

The Clearwater Plot was planted April, 28th on sandy loam soil. The plot was planted on 22 inch rows with a final population of around 28,000 plants per acre. The plot was pivot irrigated. In mid-August the plot received 60% defoliation from wind and hail damage. The plot was also exposed to two high wind events, one in August and the other in September. Lodging and Agronomic observations were done August 24th. The plot was hand harvested October, 12th. Each hybrids data is the average of three repetitions.

The Research Plot data was arrived 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 Cargill Popwise oil a blend of canola and sunflower 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

**EX- EXPERIMENTAL
N- ZANGGER**

% 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.

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