



Introduction: At Milestone, we strive to always improve on the equipment we build to fit the needs of our clients. Therefore, on November 13, 2008, a comparison test between a 1993 60" Milestone potato seed cutter and a 2008 72" Milestone potato seed cutter was performed to test the efficiency of each machine. The question posed was, "Is the 2008 cutter with new features more efficient than the 1993 cutter without the new feature?"

The 1993 cutter's features included:

- non quick adjust pre sizer,
- mechanical variable speed elevator,
- 9 rolls of old style stars (square hub) top and bottom sizers,
- standard width seed cuts 1 3/4" x 40 progressive top table and 2" x 40 progressive roll bottom, 3 3/4" diameter progressive rollers with 16 tooth reversing sprockets,
- mechanical coulter quick adjust,
- mechanical sizers quick adjust,
- scrub rollers chip elimination non variable speed.

The 2008 cutter's features include:

- hydraulic variable speed elevator,
- quick adjust pre sizer,
- 11 rolls of new style Milestone star (patented) round hub star rolls top and bottom sizer,
- the last roll on the top sizer is a potato manipulating finger roll, 36 roll x 1 3/4 x 4 1/4 diameter with 20 tooth reversing sprockets on top progression table, 36 roll x 2" x 4 1/4 diameter with 20 tooth reversing sprockets on the bottom progression table, both top and bottom progressive tables have a potato manipulating device molded into the progressive rolls,
- hydraulic sizer quick adjust top and bottom
- hydraulic coulter quick adjust,
- new configuration on sponge drums,
- optional double seed piece divider inspection tables.

Sample: A 100 lb sample of potatoes was divided equally between the two machines. The potatoes that were run through the two cutters were consistent in size and shape. The actual potato count for each cutter was 117 potatoes.

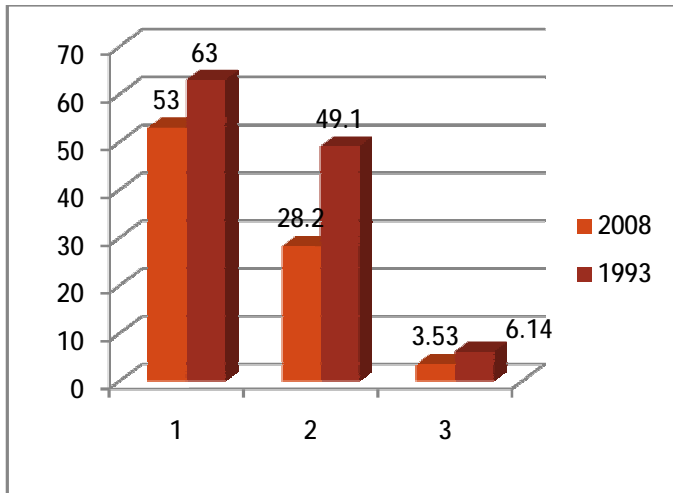


CHART 1

Columns 1: Actual number of eliminated underweight pieces (less than 1.5 oz.). 2008 cutter – 53 1993 cutter – 63.
 Columns 2: Total weight of the underweight pieces. 2008 cutter – 28.2 oz. 1993 cutter – 49.1 oz.
 Columns 3: Percent by weight of underweight pieces compared to the original 50# sample. 2008 – cutter – 3.53% 1993 cutter – 6.14%.

CHART 2

Columns 1: Actual number of underweight pieces (less than 1.5 oz.) that cross over the chip elimination. 2008 cutter – 0 1993 cutter – 17.
 Columns 2: Total weight of underweight pieces that cross over the chip elimination. 2008 cutter – 0. 1993 cutter – 18.2 oz.
 Columns 3: Percent by weight of underweight pieces that cross over the chip elimination compared to original 50# sample. 2008 – 0% 1993 – 2.28%.

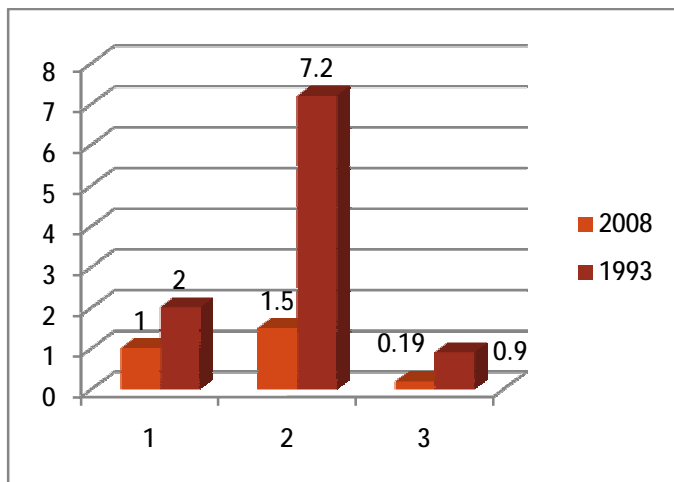
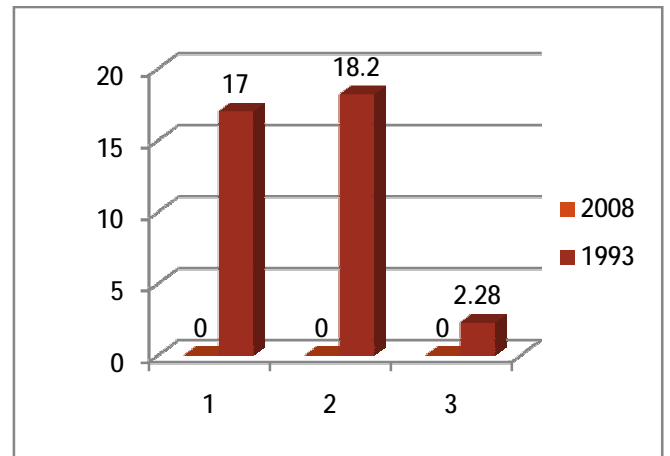


CHART 3:

Columns 1 –Actual number of irregular pieces produced. 2008 – 1 1993 - 2
 Columns 2 – Total weight of irregular pieces produced. 2008 – 1.5 oz. 1993 – 7.2 oz.
 Columns 3 - Weight percentage of irregular pieces produced compared to original 50# sample. 2008 - .19% 1993 - .90%

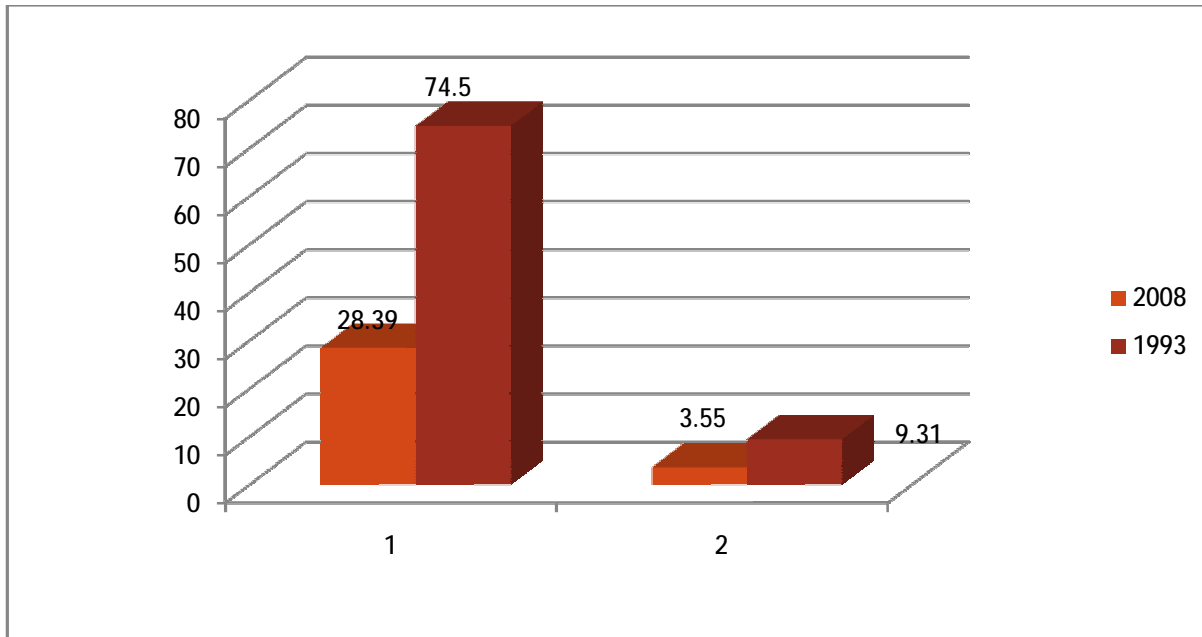


CHART 4

Columns 1: Total weight amount of underweight and irregular pieces.

2008 – 28.39 oz 1993 – 74.5 oz

Columns 2: Total weight percentage of underweight and irregular pieces compared to the original 50# sample.

2008 cutter – 3.55% 1993 cutter - 9.31%.

Conclusion: According to the test results the 2008 potato seed cutter out preformed the 1993 potato seed cutter in efficiency on an average 62%.

Chart one reflects a 43% increase in efficiency when weighing the number of eliminated underweight pieces. The 1993 eliminated 6.14% of the 50 lb. sample, while the 2008 cutter eliminated 3.53% of the 50 lb sample.

Chart two reflects a 228% increase in efficiency when weighing the number of underweight pieces that are not eliminated by the cutter. The 1993 cutter did not eliminate 2.28% of the 50 lb sample size and the 2008 eliminated all the underweight pieces.

Chart three reflects a 79% increase in the efficiency when weighing the number of irregular pieces produced. The weight of the irregular cut pieces produced by the 1993 cutter was .90% while the weight of the irregular cut pieces produce by the 2008 was .19%.

Chart four combines the total weight of underweight and irregular cut seed pieces reflected in Charts one, two, and three. The chart shows a total weight of 9.31% of the 50lb sample of underweight and irregular pieces for the 1993 cutter while the 2008 cutter shows a total weight of 3.55%.