

TRIPLE/S DYNAMICS
PROCESS EVALUATION

BY: [REDACTED]

SALES REPRESENTATIVE: [REDACTED]

LAB SAMPLE NUMBER: 80-42

SUBJECT: Separation of Corn Germ, Hulls, and Starch From
Ground Corn for [REDACTED]

BACKGROUND: [REDACTED] shipped a sample of ground corn to Dallas for testing. The objective of the test is to separate the sample into three fractions: corn germ, hulls, and starch.

SUMMARY: The results indicate that it is possible to achieve the three separation desired, with the purity of each fraction dependent upon operator selection.

PROCEDURE: The incoming ground corn was run on the V-135 Gravity Table equipped with a 65 count deck with full riffles at a feed rate of approximately 260 lbs/hr. Three fractions were collected off the deck; a light fraction which was hulls and dust, a mid fraction which was starch, and a heavy fraction which contained corn germ. The samples were weighed to determine distribution.

RESULTS AND

DISCUSSION: The results of the gravity separation are presented below:

<u>Fraction</u>	<u>Percent</u>
Light	18.18%
Mid	29.55%
Heavy	52.27%

The test on the V-135 was run without a hood, therefore the dust that would have otherwise been

[REDACTED]
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collected was mixed with the light fraction.

The samples were returned to [REDACTED] for
further observation.
[REDACTED]
[REDACTED]