

TRIPLE/S DYNAMICS  
PROCESS EVALUATION

BY: [REDACTED]

SUBJECT: Reclaiming Soybean Screening on a Texas Shaker  
For [REDACTED]

LAB SAMPLE NUMBER: 79-142

PROCEDURE: Two bags of soybean screening were received for testing. The object of the test was to recover soybean material from the screenings. A sieve analysis was run on the incoming product.

Sieve Analysis on Incoming Product

+6	1.74%
+8	3.38
+10	23.36
+14	33.73
+20	14.52
+28	9.54
-28	13.74

Bulk Density - 27.54 #/cu. ft.

It would appear that the material should be screened on a 14 mesh screen.

The material was then screened on a 14 mesh deck 1 foot wide and 3 feet long. After each pass over the deck, the weight of the overs and screenings was determined, and fines removal calculated as a percentage of -14 mesh material available. These results are summarized in the following table:

<u>Pass No</u>	<u>% Screening</u>	<u>% of Screens Available</u>
1	16.85	44.59
2	23.60	62.42
3	26.97	71.34

Feed rate of 2000 lbs/hr/ft of width.

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The bulk density of the overs is 25.14 lbs/cu. ft.  
and the bulk density of the fines is 34.05 lbs  
per cu. ft.

The following table summarizes the sieve analysis  
of the overs and fines

<u>Sieve Size</u>	<u>%</u>	
	<u>Overs</u>	<u>Fines</u>
+6	3.26	
+8	4.64	
+10	30.39	
+14	44.94	1.46
+20	14.25	19.12
+28	1.85	29.26
-28	0.69	50.16

Samples will be returned to customer.

