Lab Report

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███████ Contact: ████████████████

Rep Contact: ████████████████████████

Saleman: ████████████

Subject: Separation evaluation of sugarbeet seed.

Equipment Used: Laboratory V-135 Gravity Separator
                Equipped with #80 deck.
                BX-110 Gravity Separator with 81C deck.

Procedure:

1) Received 500 pounds of sized sample from Betaseed
   for testing.

2) Run #1. Separated sample into three fractions:
            Heavies, Mids and Lights. Samples were
            identified accordingly.

3) Run #2. Objective was to collect equal thirds from
            separator discharge.

4) Run #3. BX-110 Separator, again collected equal
            thirds from separator discharge.

5) Performed bulk densities on all samples and head
   sample.

Results: Original B.D. 31lbs./ft3

Run #1	Wt.	%	B.D.	Rate: 210 lbs./hr.
Heavies	5.09#	53.6	33.1#	
Mids	3.96#	41.7	29.3#	
Lights	.44#	4.6	26.5#	

Run #2	Wt.	%	B.D.	Rate: 210 lbs./hr.
Heavies	2.03#	28.8	34#	
Mids	2.76#	39.2	31.6#	
Lights	2.25	31.9	29#	

Run #3	Wt.	%	B.D.	Rate: 1800 lbs./hr.
Heavies	34.5#	29.6	33#	
Mids	38#	32.6	30.5#	
Lights	44#	37.7	29#	

Note: V-135 Gravity Separator has 1.7 ft2 of deck area.
      To reach the target rate of 1k lbs./hr., a BX-110
      or 260 Gravity Separator would be the required model.

All test samples have been returned to ███████. Samples from
Runs 1 and 2 were shipped separately from Run 3.

Triple/S Dynamics Lab

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Saleman: ████████████████

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Equipment Used: Laboratory V-135 Gravity Separator
Equipped with #80 deck.

Procedure:

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   for testing.

2) Run #1. Separated sample into three fractions:
   Heavies, Mids and Lights. Samples were
   identified accordingly.

3) Run #2. Objective was to collect equal thirds from
   separator discharge.

4) Performed bulk densities on all samples and head
   sample.

Results: Original B.D. 31lbs./ft3

Run #1	Wt.	%	B.D.	Rate: 210 lbs./hr.
Heavies	5.09#	53.6	33.1#	
Mids	3.96#	41.7	29.3#	
Lights	.44#	4.6	26.5#	

Run #2	Wt.	%	B.D.	Rate: 210 lbs./hr.
Heavies	2.03#	28.8	34#	
Mids	2.76#	39.2	31.6#	
Lights	2.25	31.9	29#	

Note: V-135 Gravity Separator has 1.7 ft2 of deck area.
      To reach the target rate of 1k lbs./hr., a BX-100
      Gravity Separator would be the required model.

All test samples will be returned to ████████ with remainder
of sample sent retained at T/SD for future testing.

Triple XS Dynamics Lab
████████████████████████

MEMO TO: █████████████

FROM: █████████████████

RE: Seed for Gravity Seperation

DATE: █████████████

     Along with this cover letter you are being sent 500 pounds of sugarbeet seed. It has been processed to the point were it is sized and all that needs to be done is to improve the germination. In the past we have always used gravity tables to do this. Recently we changed the way in which we size our seed and the result has been smaller sized lots and gravity tables that are much to big capacity wise to handle the new lot sizes. We need tables with a capacity in the 1000# an hour range to accommodate the present lot size.

     We would like you to take this seed and process it over a production model machine that has the above named capacity. We would like back the following:

1. The seed in the separations that you have made. Seed should be marked as to what separation it is.
2. Any information you can supply us on how it ran and how it separated for you.
3. The model of machine and its capacity that you used.

     Once we have decided on what machines to purchase we would like to be able to send another lot to process and a representative of our company to watch the process.

MEMO TO: ██████████

FROM: ██████████

RE: Seed for Gravity Seperation

DATE: ██████████

    Along with this cover letter you are being sent 500 pounds of sugarbeet seed. It has been processed to the point were it is sized and all that needs to be done is to improve the germination. In the past we have always used gravity tables to do this. Recently we changed the way in which we size our seed and the result has been smaller sized lots and gravity tables that are much to big capacity wise to handle the new lot sizes. We need tables with a capacity in the 1000# an hour range to accommodate the present lot size.

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