2010 SMFD
Improving Harvest, Storage and Marketing Strategies – LEMMONS

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4 Stages of Soybean Harvest Loss

- Pre-harvest Loss
- Gathering loss
- Cylinder loss
- Separation loss

What is the Cost of Harvest Loss?

- At 55 bushels per acre on soybeans:
  - A 10% loss = _5.5_ bushels
    @ $9.00 per bushel = $_49.50_ per acre
  - A 15% loss = _8.25_ bushels
    @ $9.00 per bushel = $_74.25_ per acre
  - A 20% loss = _11_ bushels
    @ $9.00 per bushel = $_99.00_ per acre

2010SMFD-LEMMONS (1)

Soybean Revenue Loss per Acre ($)
at $9.00/bu.

2010SMFD-LEMMONS (3)

Gain (over poor operator) $/hr.

<table>
<thead>
<tr>
<th>Operator Skill</th>
<th>Combine Op.</th>
<th>Harvest Rate in Acres per Hour</th>
<th>Value of Soybean Loss $/hr</th>
<th>Gain (over poor operator) $/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
<td>2.6</td>
<td>10</td>
<td>$234</td>
<td>---</td>
</tr>
<tr>
<td>Average</td>
<td>1.6</td>
<td>10</td>
<td>$144</td>
<td>$90</td>
</tr>
<tr>
<td>Good</td>
<td>0.9</td>
<td>10</td>
<td>$81</td>
<td>$153</td>
</tr>
</tbody>
</table>
Measuring Harvest Loss

- 80% to 85%
- 5% to 10%

80% to 85%

5% to 10%

Measuring Gather Loss

- Shatter loss – in path between header and standing beans
  - Count all loose beans and beans in detached pods
- Lodged loss
  - Count beans in pods attached to stalks which were not cut
- Loose loss
  - Count beans and pods attached to loose stalks cut but not gathered by header
- Stubble loss
  - Count beans in pods attached to stubble

Decreasing Losses

- Majority of loss occurs at gathering
  - Header
  - Speed
  - Condition
  - Timing

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