DDGS Presentation for U.S. Grains Council - Panama City Conference

COMMODOITY SPECIALISTS COMPANY

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COMMODITY SPECIALISTS COMPANY
WHAT IS IN A BUSHEL OF CORN

1 BUSHEL OF CORN = 2.6 GALLONS OF ETHANOL + 17 LBS. DISTILLER'S DRY GRAIN + 17 LBS. CO₂
ENVIRONMENTAL ISSUES

- THE U.S. CLEAN AIR ACT MANDATES THE USE OF OXYGENATES, ETHANOL OR METHYL TERTIARY BUTYL ETHER (MTBE) IN NON-ATTAINMENT AREAS.

- MTBE IS BEING PHASED OUT BECAUSE OF GROUND WATER CONTAMINATION PROBLEMS.
North American DDG Production

Metric Tons

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
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<tbody>
<tr>
<td>1980</td>
<td>320,000</td>
</tr>
<tr>
<td>1985</td>
<td>900,000</td>
</tr>
<tr>
<td>1990</td>
<td>1,800,000</td>
</tr>
<tr>
<td>1995</td>
<td>3,000,000</td>
</tr>
<tr>
<td>2000</td>
<td>3,500,000</td>
</tr>
<tr>
<td>Est 2005</td>
<td>7,000,000</td>
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DAIRY AND BEEF

HIGH PROTEIN 25% TO 28%
HIGH BY-PASS PROTEIN
VERY PALATABLE
HIGH FAT 8% TO 12%
SPENT YEA ST
POULTRY AND SWINE

HIGH ENERGY 8% TO 12% FAT
NEW GENERATION GOLDEN DDGS IS
SIGNIFICANTLY MORE DIGESTIBLE
THAN DARKER DDGS
MAY REDUCE ODOR
MAY REDUCE GUT HEALTH PROBLEM
Low Quality, Less Digestible DDGS

High Quality, Highly Digestible DDGS