

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



COMMODITY SPECIALISTS COMPANY

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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

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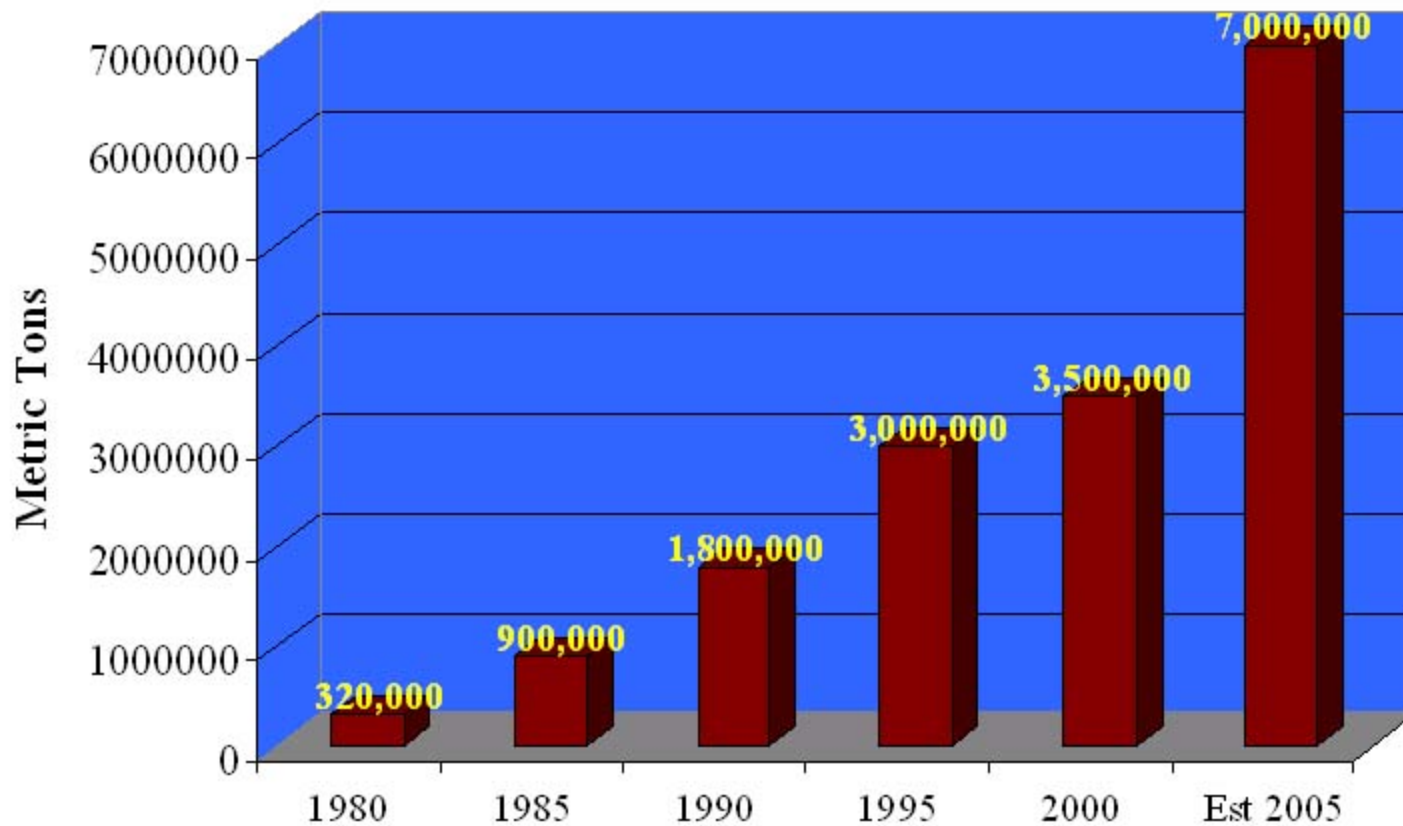
ENVIRONMENTAL ISSUES

- **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.**

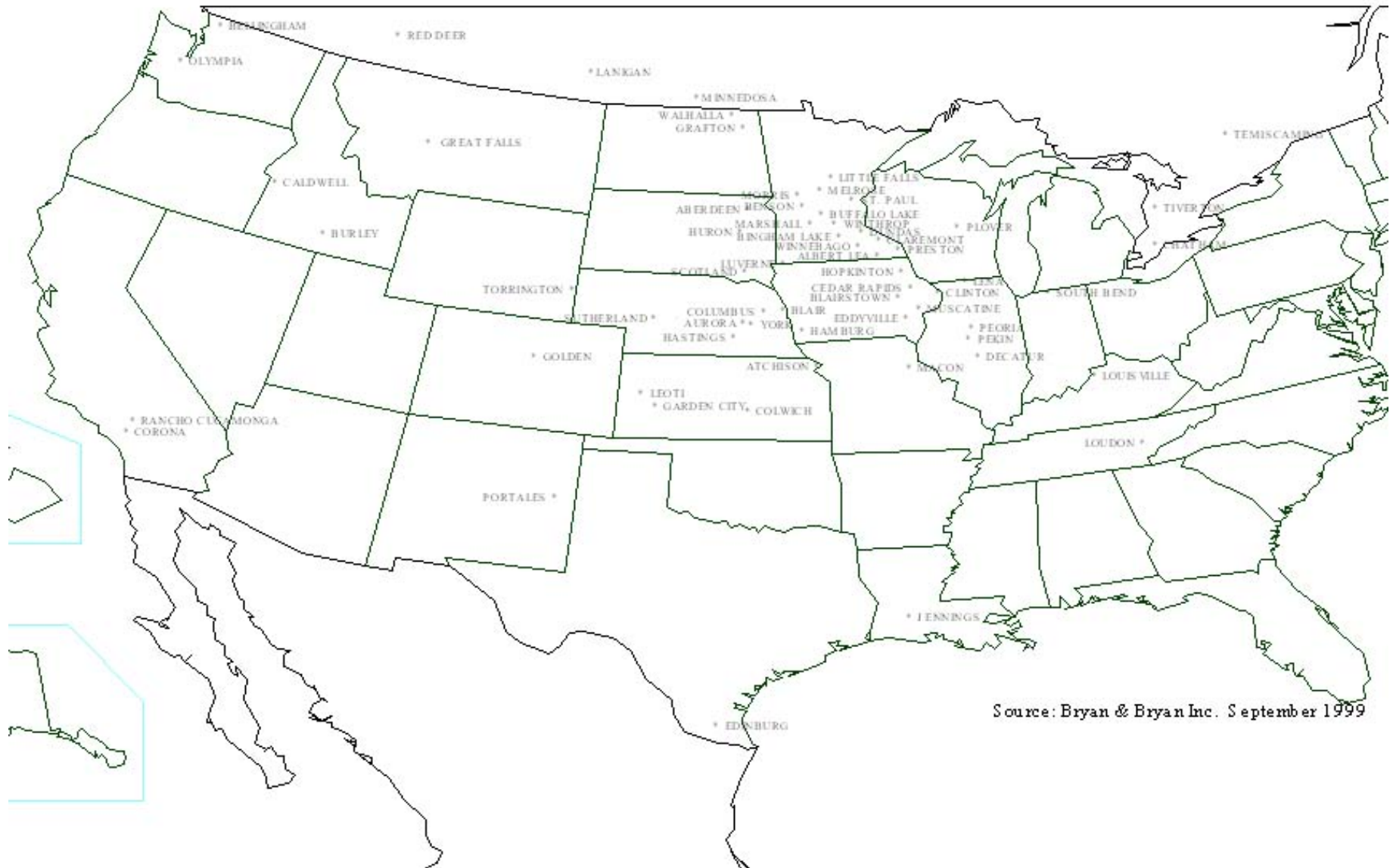


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North American DDG Production

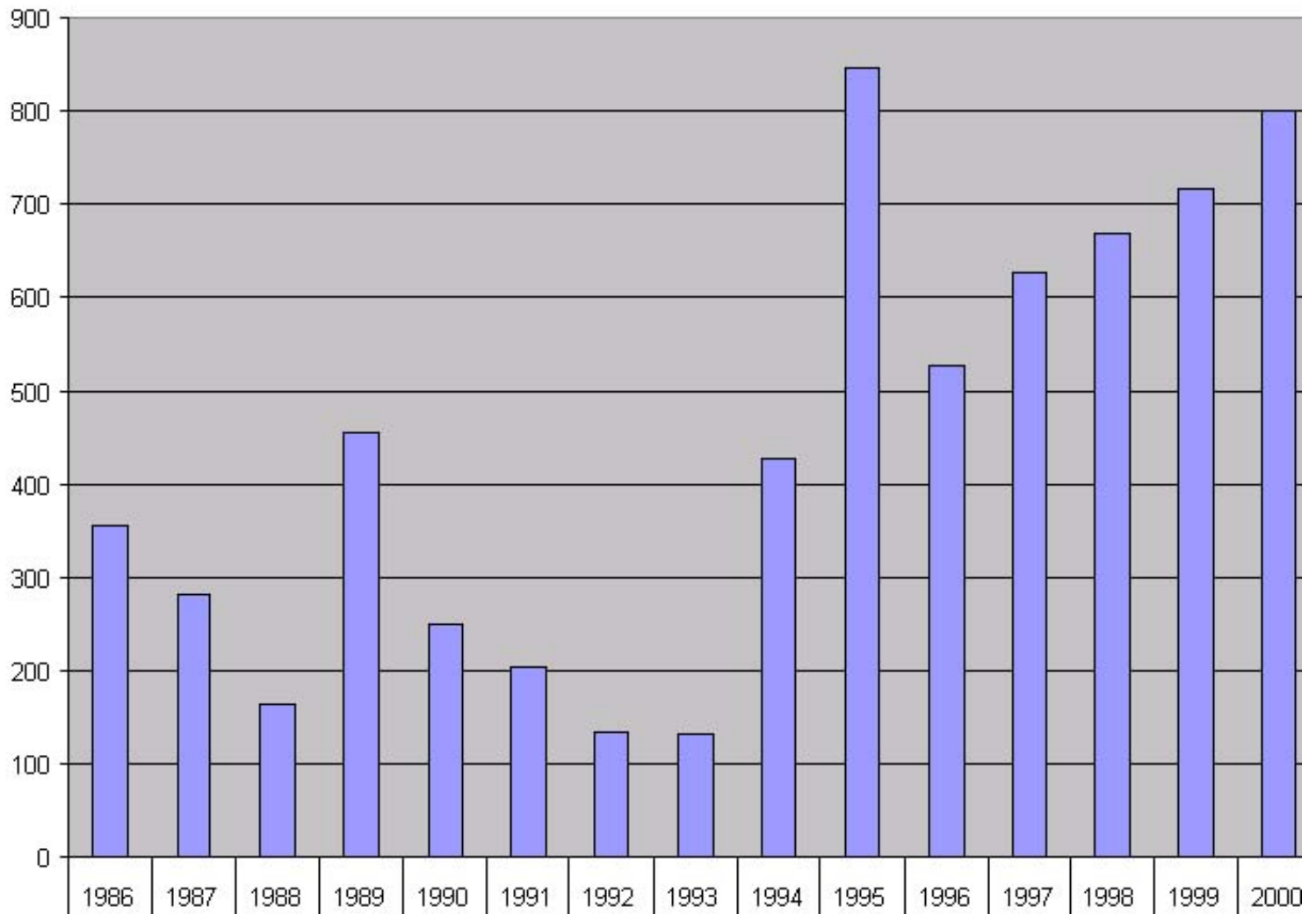


Map of U.S. Ethanol Plants



Source: Bryan & Bryan Inc. September 1999

DDG Exports 1986-2000



■ thousand metric tons	355	282	164	456	252	205	135	133	429	848	526	626	667	715	800
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DAIRY AND BEEF



HIGH PROTEIN 25% TO 28%

HIGH BY-PASS PROTEIN

VERY PALATABLE

HIGH FAT 8% TO 12%

SPENT YEAST





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