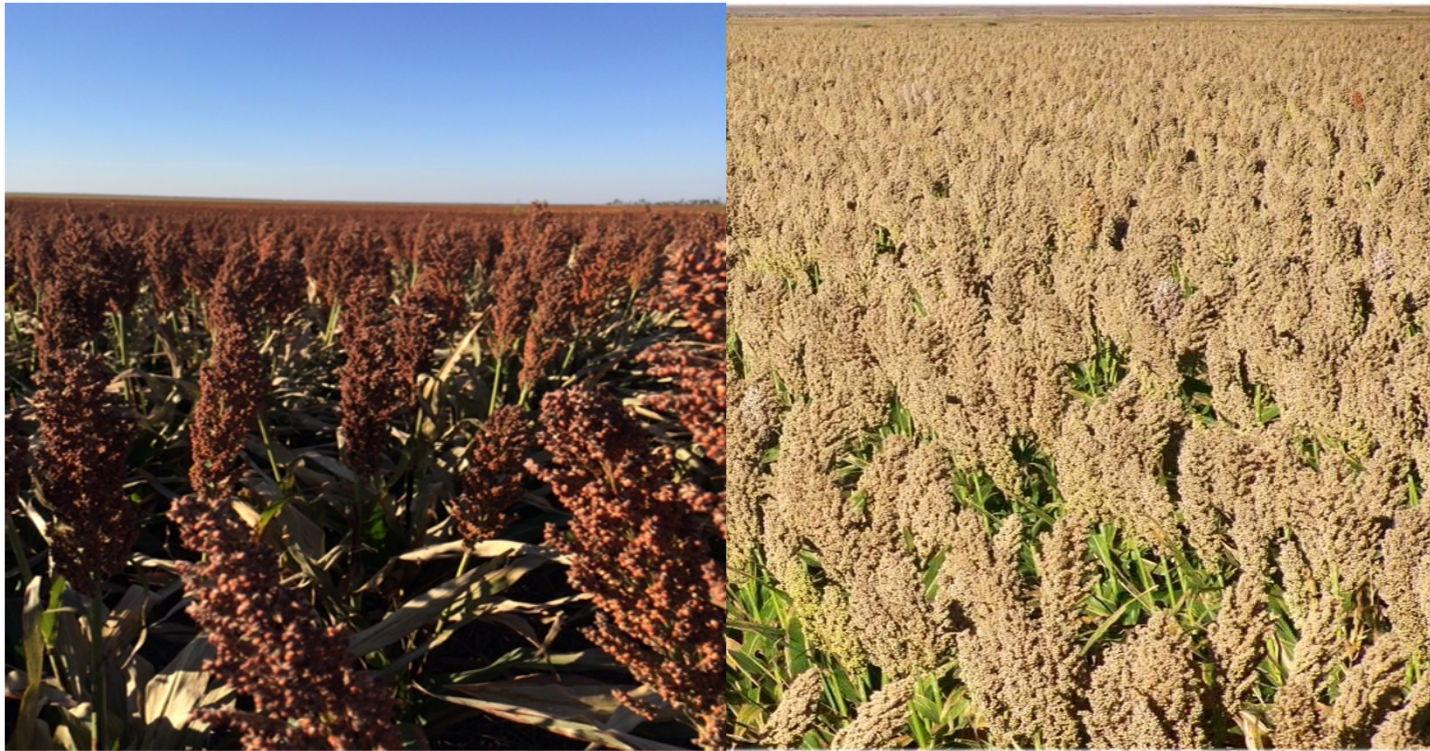


ORGANIC GRAIN SORGHUM FARM PRODUCTION TO MARKET EARL ROEMER

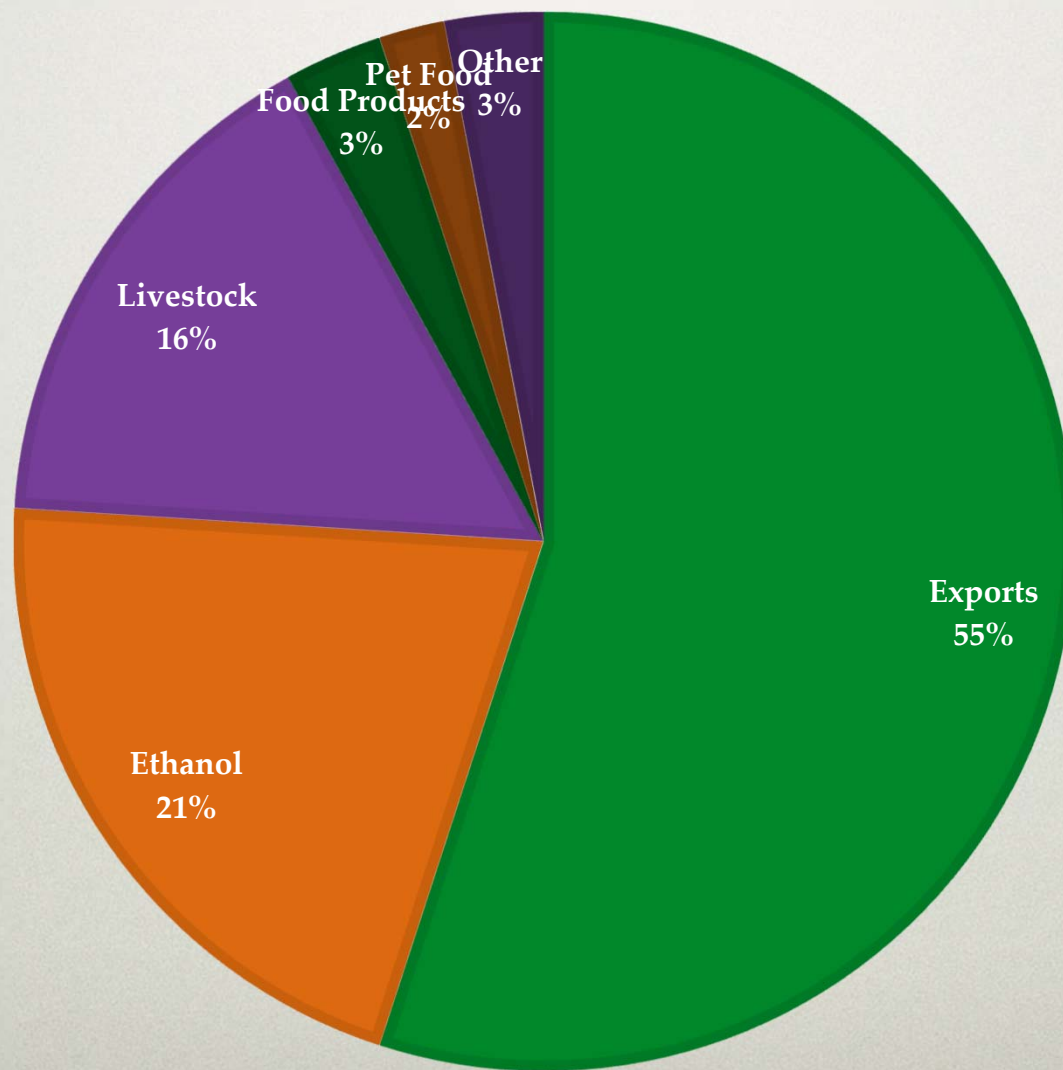


FAMILY FARMING



U.S. DEMAND MARKETS

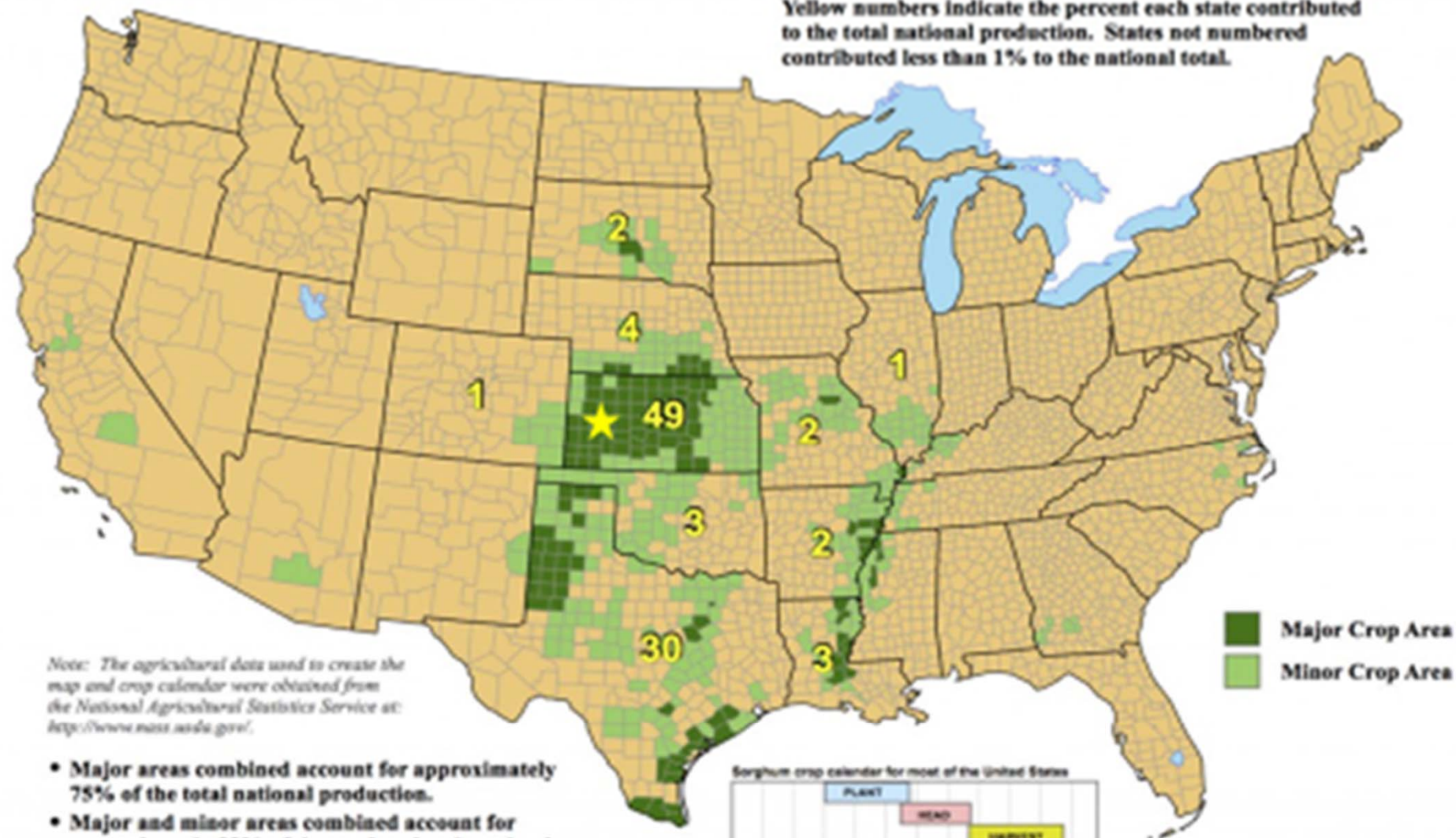
■ Exports ■ Ethanol ■ Livestock ■ Food Products ■ Pet Food ■ Other



Nu Life
- MARKET -

United States: Sorghum

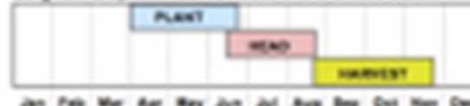
Yellow numbers indicate the percent each state contributed to the total national production. States not numbered contributed less than 1% to the national total.



Note: The agricultural data used to create the map and crop calendar were obtained from the National Agricultural Statistics Service at: <http://www.nass.usda.gov/>.

- Major areas combined account for approximately 75% of the total national production.
- Major and minor areas combined account for approximately 99% of the total national production.
- Major and minor areas and state production percentages are derived from NASS county- and state-level production data from 2006-2010.

Sorghum crop calendar for most of the United States



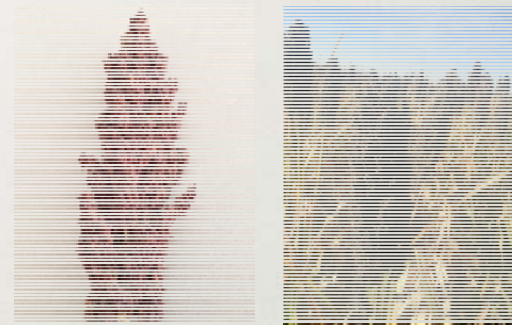
Crop calendar dates are based upon NASS crop progress data from 2006-2010. The field activities and crop development stages illustrated in the crop calendar represent the average time period when national progress advanced from 10 to 90 percent.



Agricultural Weather Assessments
World Agricultural Outlook Board

WHY GRAIN SORGHUM FOR FUNCTIONAL FOODS & BEVERAGES

- Gluten free
- Non GMO
- Ancient grain
- Unique Chemistry
- Sustainability
- Environmentally Responsible
- US grown
- Identity Preservation
- Traceability
- Available Certified Organic



CAMEL OF CROPS

DRYLAND PRODUCTION

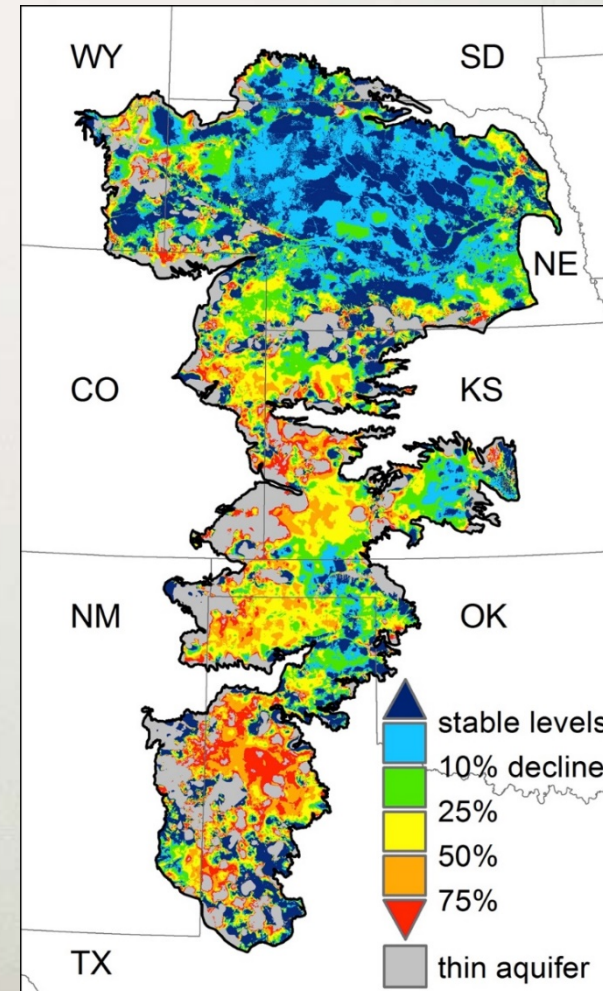


OGALLALA AQUIFER

GRAIN SORGHUM IRRIGATION

GRAIN SORGHUM IRRIGATED
PRODUCTION

REDUCES WATER UTILIZATION
CONSERVES NATURAL RESOURCES
SUSTAINABLE AGRICULTURE



CERTIFICATIONS

- USDA ORGANIC
- TRANSITIONAL
- AUDITING COMPANIES

CCOF

QAI

ECOCERT

SORGHUM PLANT BREEDING



SORGHUM SEED SELECTION

- AGRONOMIC TRAITS
- PHYSICAL TRAITS
- DEFENSIVE TRAITS
- OFFENSIVE TRAITS
- YIELD
- GRAIN QUALITY TRAITS
- CUSTOMER DESIRED TRAITS

PRODUCTION MANAGEMENT

- SEED SELECTION
- SOIL ANALYSIS & PREP
- PLANTING
- SCOUTING FIELDS
- HARVEST < 14% MO
- STORAGE

SOIL MANAGEMENT SYSTEMS

ORGANIC PRODUCTION

DRYLAND & IRRIGATED

CROP ROTATIONS

- WHEAT
- SORGHUM
- FALLOW
- SOYBEANS
- COTTON
- LEGUME COVER CROPS

GRAIN PRODUCTION TECHNOLOGY

- GRID SOIL ANALYSIS
- SEED ANALYSIS
- GPS GUIDANCE SYSTEMS
- PUBLIC RESEARCH & EXTENSION
- PRIVATE RESEARCH

GRAIN HARVEST AND IP STORAGE



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GRAIN ANALYSIS



MARKETING OPTIONS

- NU LIFE MARKET FLOUR MILL
- RETAIL
- E-COMMERCE
- BULK INGREDIENT
- BREWERIES
- DISTILLERIES
- ORGANIC ANIMAL FEED
- EXPORT

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Slide 16

ER1 Earl Roemer, 1/25/2019

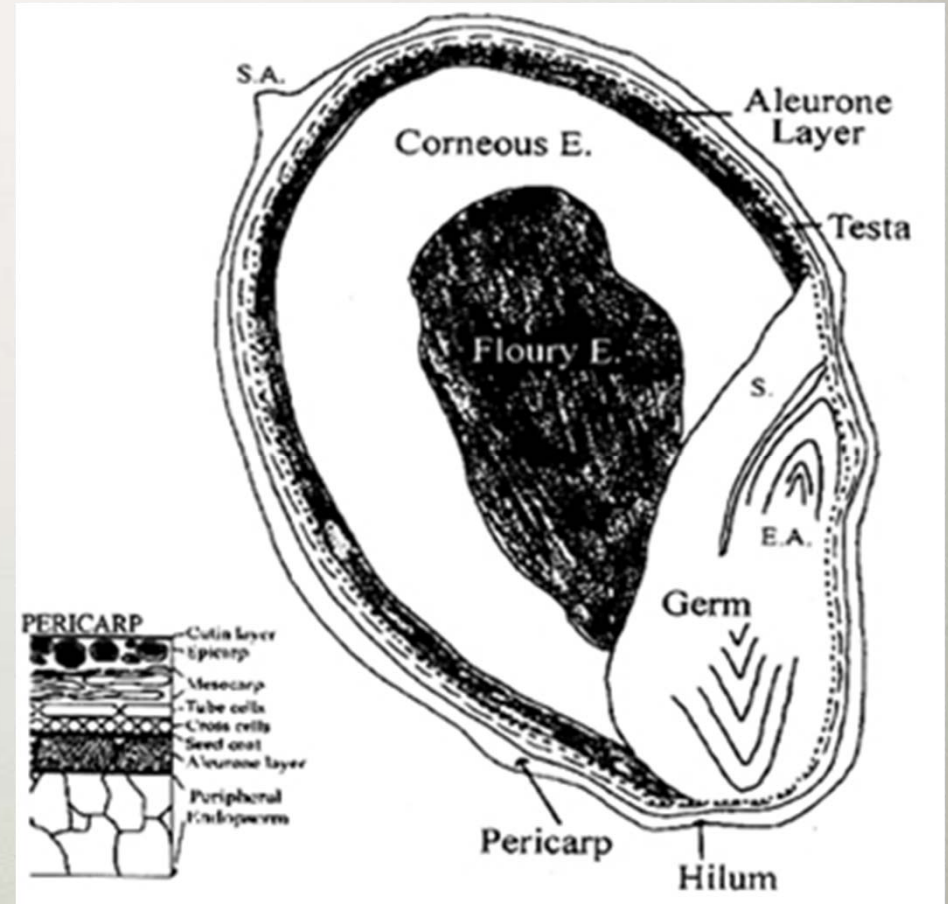
ER2 Earl Roemer, 1/25/2019

ORGANIC MILLING CERTIFICATION PROCESS

- ORGANIC GRAIN DOCUMENTATION
- HACCP
- ORGANIC GRAIN DEDICATED STORAGE
- ORGANIC CLEANING PROCEDURES
- ORGANIC GRAIN PROCESSING
- ORGANIC FINISHED PRODUCT LABELS AND DEDICATED STORAGE
- AUDITS

SORGHUM MILLING & GLUTEN FREE PRODUCT DEVELOPMENT

- PARTICAL SIZE
- PARTICAL SIZE DISTRIBUTION
- STARCH DAMAGE
- SYNERGISM WITH STARCH AND HYDROCOLLOIDS
- GELATINIZATION





White Whole Grain
SORGHUM FLOUR



PEARLED SORGHUM



Black Whole Grain
SORGHUM FLOUR



Popped Sorghum

GRAIN SORGHUM FLOUR BAKED FOOD PRODUCTS

COOKIES

MUFFINS

PIZZA CRUST



GRAIN SORGHUM EXTRUDED PRODUCTS

RTE Cereals

Snacks

Filler Crisps



QUICK COOK MEALS

IQF GLUTEN FREE SORGHUM PASTA

TWO MINUTE COOK IN PAN WITH OLIVE OIL



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GRAIN SORGHUM FLOUR FOR FRIED FOOD COATINGS

REDUCTION IN OIL ABSORPTION

EXCELLENT MOISTURE RETENTION IN FRIED PRODUCTS COATED WITH SORGHUM FLOUR

EXCELLENT CRISPING

EXCELLENT BROWNING

EXCELLENT FLAVOR PROFILE

GLUTEN FREE +



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THANK YOU

EARL ROEMER

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