

# Overview of U.S. Grain Handling and Distribution System

















Louis Dreyfus
Commodities















**Scoular** 

Company®

**RICHARDSON** 

#### ADM Cargill

Agrex - Mitsubishi Noble Logistics

CHS

Zen-noh Grain

Toyota Tsusho Gavilon

The Scoular Company

Columbia – Marubeni

**TEMCO** 

**United Grain** 

WestPlains

Thionville

Assoc. Terminals

CoBank

**Integrated Commodity Logistics** 

J&S Trading - Dubai

**DeBruce** 

**Star Trading & Marine** 

Seaboard Overseas Ltd.

**Degesch** America, Inc

**Louis Dreyfus** 

Bunge Nidera

Nidera Mitsui

Glencore

Itochu

Richardson

Viterra

**CLD Pacific** 

EGT

Kalama Export

Pasternak, Baum

**Russell Marine** 

Ghaznavi

SGS

Interstate

Intertek

**TRC Group** 

Cam USA

**Blue Water Shipping** 

**Agri Port Service** 





Toyota Tsusho













**Thionville** 





**UNITED GRAIN** 



Intertek













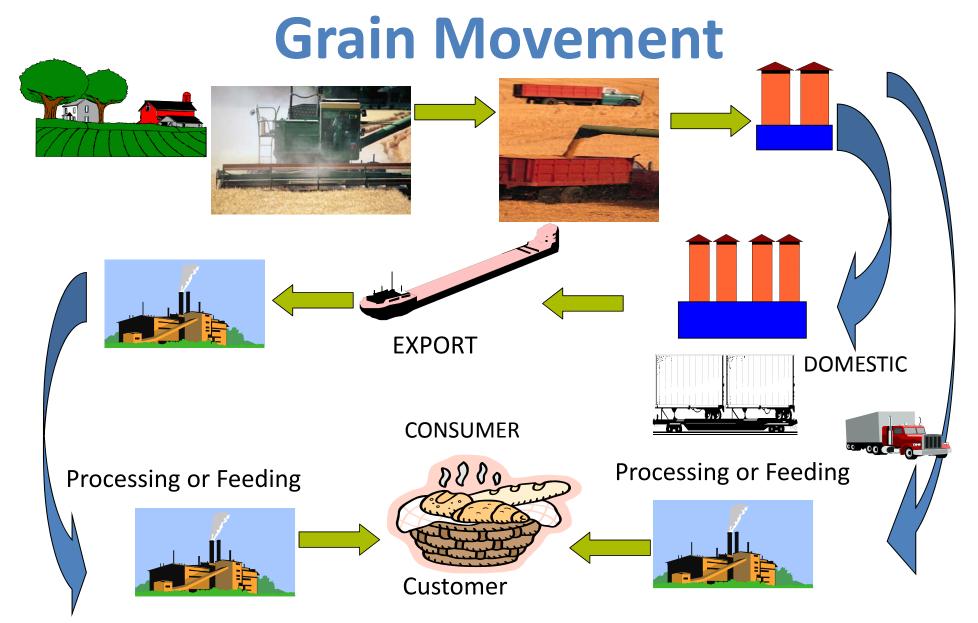
EGT.

LLC

Integrated Commodity
Logistics

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Cam, USA

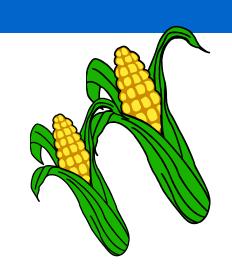


For Nick

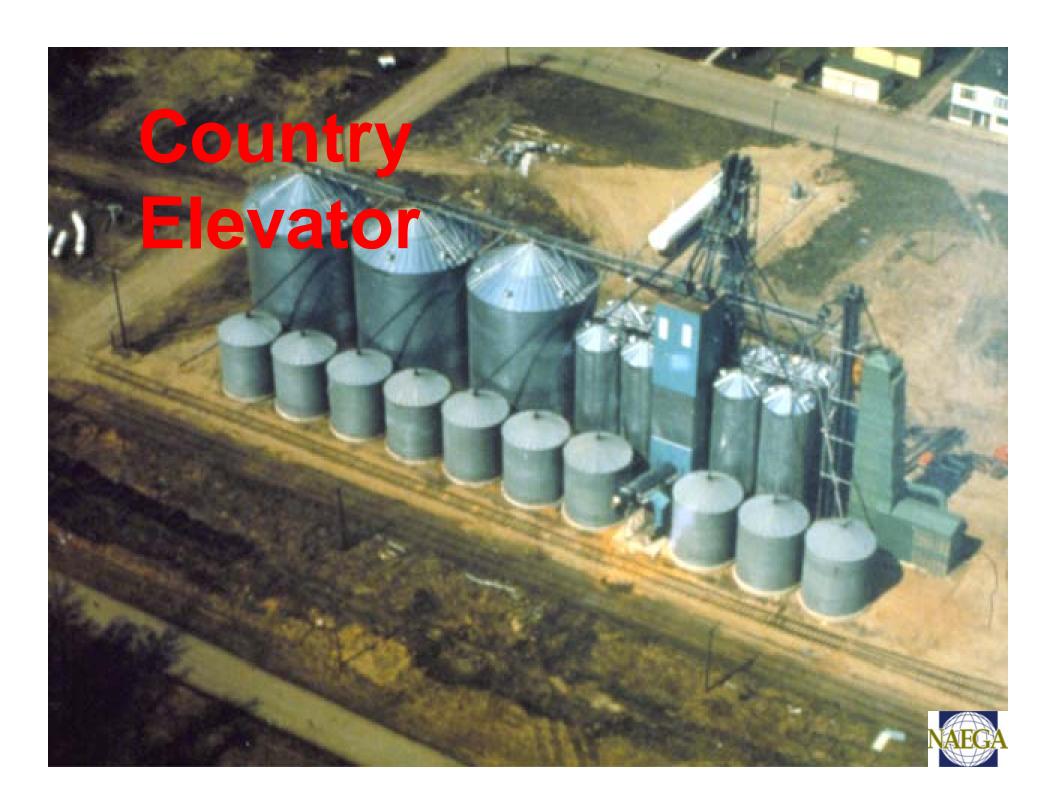


# Farm Storage

- From the field to Farm Storage or to a Country or Terminal Elevator
- Small quantities stored on the farm. 82 MT to 700 MT bin sizes
- Limited quality segregation







### **Country Elevator Capacities**

Receiving 20 trucks per hour = 500 MT/hr

Shipping 10 trucks per hour = 250 MT/hr

4 to 8 cars per hour = 440 to 880 MT/hr

#### **Storage Capacities**

 Corrugated Steel
 550 to 13,500 MT

 Concrete
 680 to 2,700 MT

 Welded Steel
 13,600 to 27,500 MT

 Flat Storage
 41,000 to 164,000 MT





### **Unit Train Terminals, Capacities**

Receiving 20 to 40 trucks per hour

500 to 1,000 MT/hr

Shipping 10 cars per hour

1,100 MT/hr

**Storage Capacities** 

Concrete 1,400 to 2,700 MT

Welded Steel 13,400 to 27,300 MT

Flat Storage 41,000 t0 164,000 MT





#### Barge Terminals, Capacities

Receiving 20 to 40 trucks per hour

500 to 1,000 MT/hr

**Shipping Barges** 500 to 1,000 MT/hr

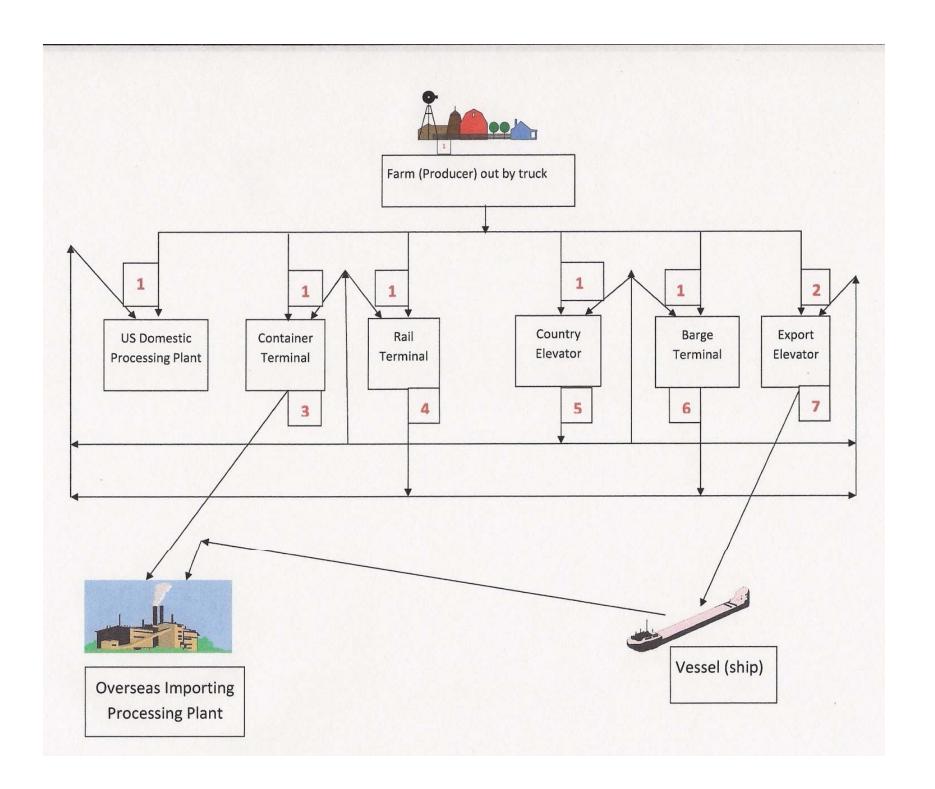
**Storage Capacities** 

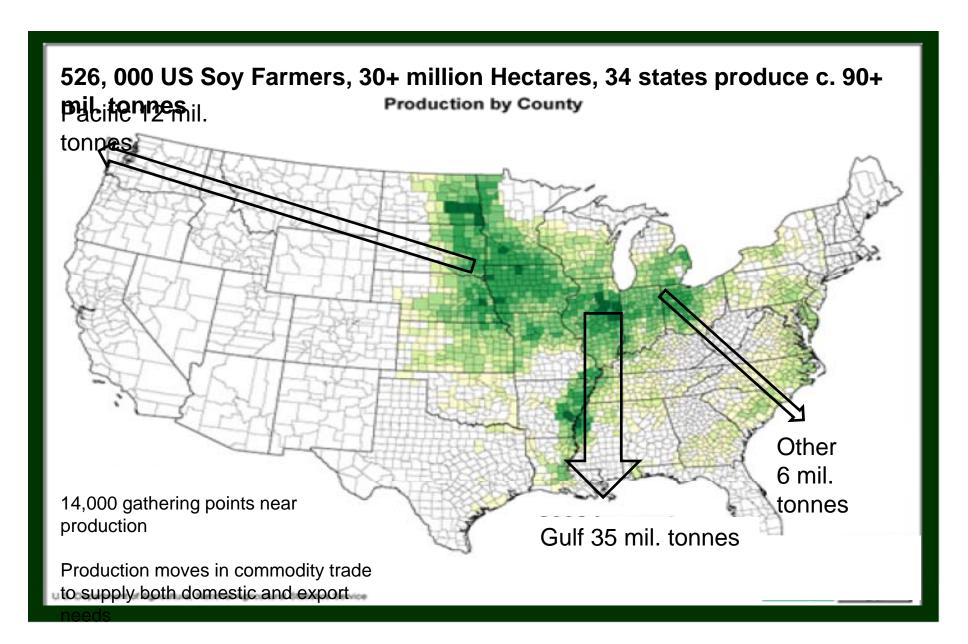
Concrete 1,400 to 2,700 MT

Welded Steel 13,400 to 27,300 MT

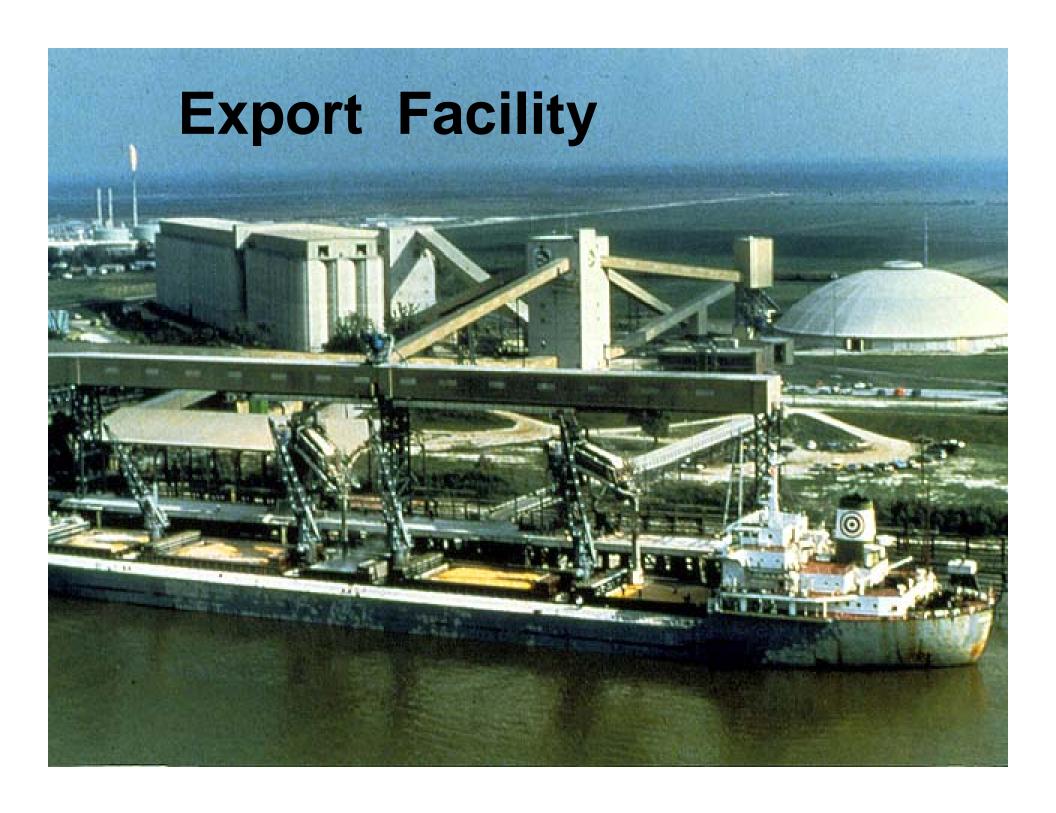
Flat Storage 41,000 to 164,000 MT







For Nick 13



# **Export Terminals**

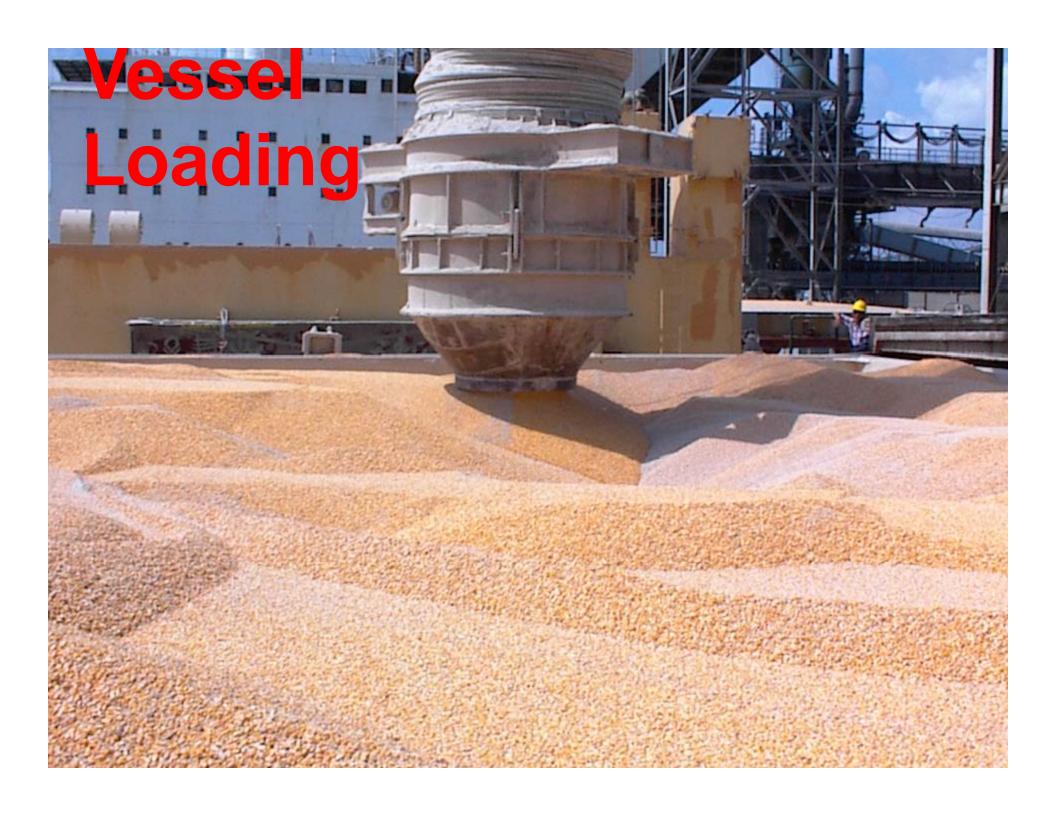
Receiving Rail - 750 to 1,200 MT/hr

Barge - 750 to 2,500 MT/hr

- Loading Vessel 1,500 to 3,200 MT/hr
- Storage capacity, just in time loading







#### Receiving Grain

- Sampled
- Inspected
- Binned by quality factors depending on the number of bins the facility has available for the type of grain being received



## **Mechanical Probe**



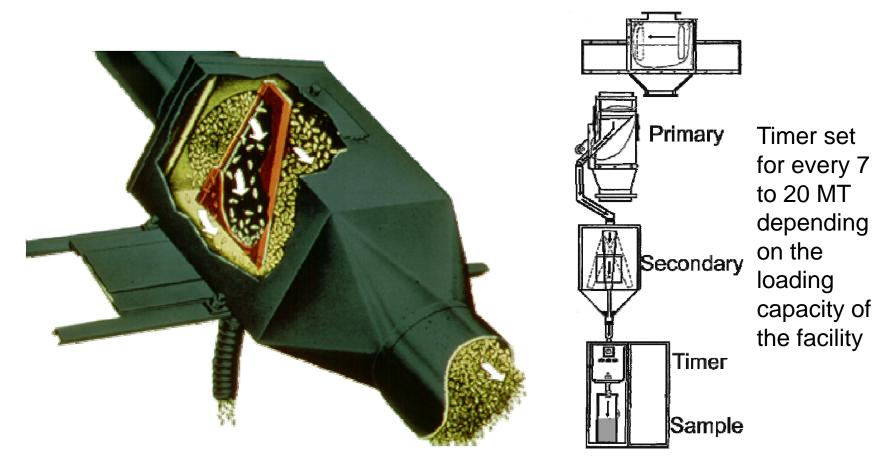


#### **Shipping Grain**

- Co-mingled from several different bins to adjust quality and uniformity of that quality
- Sampled
- Inspected to assure compliance with the contract



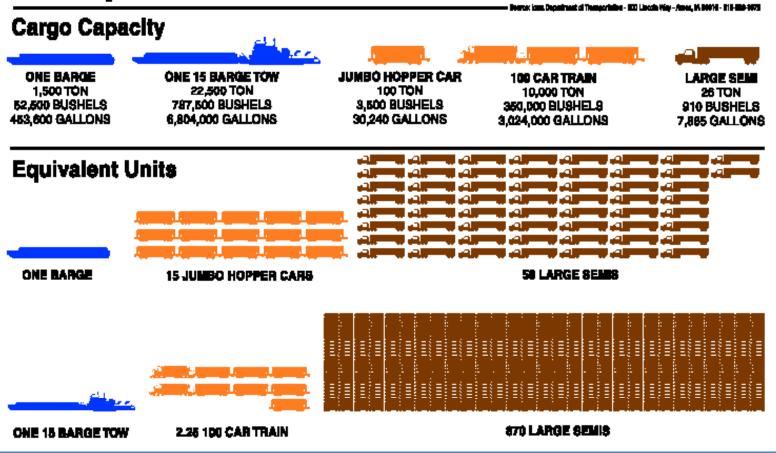
# Mechanical Sampler



Diverter Type (DT)



# Grain Transport



1 Panamax (50K tons) = 38 barges = 2200 semi trailers = 2M bushels = 330 trillion soybeans



For Nick 22

# World Bulk Grain Systems

The grain industry's challenge = move commodities from areas of surplus to areas of deficit, provide for regulatory compliance, safety and cost efficiency

- ✓ Movement is bulk and comingled.
- ✓ 3-24 months contract to delivery lead time
- ✓ Characterized by high volumes, low cost
- ✓ Impossible to keep varieties totally separate in system
- ✓ Commingling may occur in each link of chain
- ✓ Adventitious materials may occur in all shipments of all commodities.



#### **Thank You**



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