U.S. Agricultural Supply Chains and Infrastructure Needs

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Outline

- U.S. Agricultural Supply Chains
- Infrastructure Needs
Importance of Ag Trade

- U.S. is the largest ag. exporter, $138 billion in 2017
- Exports about 1/3 of ag income
- U.S. imports totaled $121 billion in 2017
- Both exports and imports generate positive economic impacts
U.S. Supply Chains
U.S. Agricultural and Food Trade with Mexico, Billion Dollars

Billion Dollars

- **U.S. Exports to Mexico**
- **U.S. Imports from Mexico**

Source: GATS, FAS/USDA
U.S.-Mexico Border Crossings
Corn
U.S. Corn Production, Top 15 States, 2016

Source: Survey Data, NASS/USDA

Exported: 13-15%
U.S. Corn Exports to Mexico by Port Type

Million Metric Tons

Source: WISERTrade and GATS, FAS/USDA
Modes of Transportation for U.S. Corn Exports to Mexico, 2011 vs. 2017

2011 Total: 8.6 MMT
- Rail: 72.0%
- Sea: 25.0%
- Truck: 3.0%

2017 Total: 14.7 MMT
- Rail: 58.5%
- Sea: 38.1%
- Truck: 3.4%

Source: USDA Global Agricultural Trade System, FAS/USDA, and APHIS/USDA
U.S. Exports of Corn to Mexico by Land by Port, 2010-2017

Million Metric Tons

Source: USDA Global Agricultural Trade System, FAS/USDA
Rice
U.S. Rough Rice Production, 2016

Source: Survey Data, NASS/USDA

Exported: 40-50%
U.S. Exports of Rice, 2013-2017

Note: This represents rough and milled rice exports combined.
Source: USDA Global Agricultural Trade System, FAS/USDA
Modes of Transporation for U.S. Rice Exports to Mexico, 2011 vs. 2017

2011 Total: 908.2 TMT
- Sea: 60.6%
- Truck: 1.0%
- Rail: 38.5%

2017 Total: 892.3 TMT
- Sea: 69.2%
- Truck: 4.0%
- Rail: 26.8%

Source: USDA Global Agricultural Trade System, FAS/USDA, and APHIS/USDA
U.S. Exports of Rice to Mexico by Land by State of Crossing, 2010-2017

Source: USDA Global Agricultural Trade System, FAS/USDA
U.S. Exports of Rice to Mexico by Land by Port, 2010-2017

Source: USDA Global Agricultural Trade System, FAS/USDA
Sorghum
U.S. Sorghum Production, 2016

Source: Survey Data, NASS/USDA

Exported: 50-60%
U.S. Sorghum Exports to Mexico by Port Type

Million Metric Tons

2003 2005 2007 2009 2011 2013 2015 2017

Source: WISERTrade and GATS, FAS/USDA
Modes of Transportation for U.S. Sorghum Exports to Mexico, 2011 vs. 2017

2011 Total: 2.3 MMT

- Sea: 57.6%
- Truck: 20.0%
- Rail: 22.4%

2017 Total: 408.8 TMT

- Truck: 56.3%
- Rail: 43.7%

Source: USDA Global Agricultural Trade System, FAS/USDA, and APHIS/USDA
U.S. Exports of Sorghum to Mexico by Land by State of Crossing, 2010-2017

Source: USDA Global Agricultural Trade System, FAS/USDA
Cotton
U.S. Cotton Production, 2016

Source: Survey Data, NASS/USDA

Exported: 80-90%
U.S. Exports of Cotton to Mexico by Land by State of Crossing, 2010-2017

Source: USDA Global Agricultural Trade System, FAS/USDA
U.S. Exports of Cotton to Mexico by Land by Port, 2010-2017

Thousand Metric Tons

Source: USDA Global Agricultural Trade System, FAS/USDA
Fresh Produce
Figure 1. U.S. Imports of Fresh Produce from Mexico by Truck, 2007-2025F

1,000 40,000 Lb. Truckloads

- Texas
- Arizona
- California
- New Mexico

Source: Agricultural Marketing Service, USDA and Department of Agricultural Economics, Texas A&M University 2018-2025 Forecast based on 2007-2015 Model
U.S. Imports of Fresh Produce from Mexico by Truck, 2007-2017

1,000 40,000 Lb. Truckloads

- Texas
- Arizona
- California
- New Mexico

Source: Agricultural Marketing Service, USDA and Department of Agricultural Economics, Texas A&M University
U.S. Exports of Fresh Produce to Mexico by Truck by Customs District, 2007-2017

1,000 40,000 Lb. Truckloads

San Diego | Nogales | El Paso | Laredo
---|---|---|---
2007: 29.2  |  36.1  |  30.6  |  33.0
2008:  |  |  |  
2009:  |  |  |  
2010:  |  |  |  
2011:  |  |  |  
2012:  |  |  |  
2013:  |  |  |  
2014:  |  |  |  
2015:  |  |  |  
2016:  |  |  |  
2017:  |  |  |  

Source: GATIS Database, FAS/USDA and Department of Agricultural Economics, Texas A&M University
Stakeholders Input on Infrastructure Needs
Ranking Top Priorities - Arizona

- Arizona 189 expansion to better connect to I-19
- Exits 12 and 17 into the Rio Rico Industrial Park need to be improved, including the ability to enter at either end of the park.
- Nogales Corridor of 13 km.
Ranking Top Priorities – California

- Need more crossing lanes at the ports-of-entry
- I-5 improvements as outlined in *San Diego Forward: The Regional Transportation Plan* and the *Border Master Plan*
- Specialized chill inspection facilities at the Otay Mesa and Calixico East POEs are needed;
Ranking Top Priorities – Texas

- International Border Transportation Corridor (IBTC) project to link bridges and avoid cities in LRGV
- Need to widen access to Aduana
- Need to have import lots on both sides of the Progreso crossing
Ranking Top Priorities – Texas

- Overpasses within city
- Traffic signal synchronization
- Add north-bound booths at World Trade Bridge and/or build new truck bridge.
- Mines Rd – Mile Marker 13 Road; too much traffic on Mines Road, needs to be more fluid
Ranking Top Priorities – Administrative

- Extension and alignment of hours of U.S. governmental agencies at the border is needed and in Mexico as well.
- Length of time to sample trucks need to be improved.
- Eliminate double inspections and double fumigations as well as fumigations on every load.
Questions

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