American Heartland Counties Targeted by Chinese Tariffs on U.S. Crops

Trade and Tariffs with China Cause Economic Hardship on America’s Heartland Economy - Counties and Crops Across Heartland Affected Most

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The impact of China’s recent retaliatory tariff increases on the American Heartland will likely be substantially worse than on the rest of the country. It appears that China surgically targeted these products to place maximum economic and political pressure on the Trump administration. Tariff increases were generally applied to manufactured products and crops, where the bulk of the production is concentrated in the Heartland. The Brookings Institute captured the varied impacts when they looked at the county-level share of employment in tariff-impacted industries and concluded that several of the most exposed counties are in the Midwest and South.¹

Unfortunately, the impact on the Heartland will likely be more severe than is indicated based upon employment measures alone. The economic value of crop farming, unlike the value of manufacturing, is not well-described by employment. At least not anymore. In a little over a century, crop farming has gone from mechanical tools propelled by human and animal power to self-driving tractors. From 1900 to 2017, agricultural employment fell from over 11 million people² to around 2.5 million people,³ while crop acreage was roughly unchanged and crop production increased significantly.iv

If employment is not the best measure upon which to estimate the tariff-stricken crops' local economic impact, what should we use? There are other measures of agricultural output available—but they are too broad; only certain crops have experienced tariff increases. A more precise estimate should be based upon the affected crops' production value.

Arguably the five most severely affected crops—corn, cotton, rice, soybeans, and wheat—have been subjected to additional 25 percent tariffs by China. These crops are of interest, not only because of their production value in the U.S., but due to the high proportion that China imports. In 2017, Chinese imports of U.S. soybeans equaled 27 percent of U.S. soybean production. The second largest foreign consumer of U.S. soybeans was Mexico, at just three percent.vg China was also the second largest importer of U.S. cotton in 2017, and was a top-10 importer of U.S. corn and wheat.vg It was not until 2017 that an agreement started the process to allow U.S. farmers to export rice to China for the first time, but the U.S. has been expected to play a major role in supplying China with the grain when trade begins. The need to find alternative markets for would-be exports to China have already pushed commodity prices lower and will, therefore, harm farm incomes for all U.S. farmers of these crops, not just the farmers whose crops were bound for China.

The map below shows the county-level, per-capita value of 2017 production of the five affected crops. We can clearly see that the intensity of production for the rest of the country pales in comparison to that of the Heartland; among the top 20 percent of counties with reported data (darkest blue bin on the map), 89 percent are in the Heartland. Further, 78 of the 82 counties with per-capita production values over $20,000 are in the Heartland, and two of the non-Heartland counties border a Heartland state.

At $58,090, Steele County, North Dakota, had the highest per-capita production value in 2017. The county of around 1900 people had per-capita personal income of $65,780 in 2016, the most recent year with income data available. If we compare that to the county’s 2016 per-capita production value for our five crops of interest, $64,935, we see that the production value was nearly equal to total personal income.ė Soybeans, the crop that will be most impacted by the tariff increase, had a 2016 production value equal to half of the county’s total personal income on its own. Personal income and crop production value are not directly comparable because income received from crop production may go to farmers residing outside of the county. However, seeds, equipment, and chemicals will be bought from local businesses; farm operating loans will be provided by local banks; and these crops will be bought and processed by local elevators and gins. Incomes from these farming-related activities will then go on to support other regional businesses. Therefore, regardless of the location of farming operations growing crops in Steele County, there will be few jobs unexposed to the tariffs when the ratio of crop production to personal income is so high.
Steele County is not alone in its degree of exposure. Some of the lowest-income per capita counties in the nation are along the Mississippi Delta (from Tennessee through Louisiana), and the vast majority of Delta counties were in the top 20 percent by per-capita production value. Issaquena County, Mississippi, is a stark example, with 2016 production of the five crops valued at 135 percent of total personal income.\textsuperscript{viii, ix}

China clearly chose strategically to target these crops for retaliatory tariffs to impart the greatest economic damages to President Trump’s base of supporters. The ultimate objective being to affect his political and electoral prospects in an effort to eventually pressure the president to seek a negotiated settlement on trade and American intellectual property disputes closer to Chinese preferences. One of President Trump’s responses was $12 billion in monetary aid to affected farmers for this crop year, but, as pointed out by crop farmers across the country, the aid is a one-year bandage on a multi-year problem. With the recent announcements of additional tariffs by both parties,\textsuperscript{9} we may even need a bigger bandage.

China’s tariff increases on U.S. crops will be felt in the Heartland to a higher degree than anywhere else. An additional 25 percent tariff may not seem like much in comparison to some tariffs across the world. Yet, for places like Steele County and the Mississippi Delta, which rely so heavily on these five crops, and, therefore, on their export to China, it could prove to be devastating to their economic prospects, which are just beginning to improve. The White House may have given itself a year to negotiate those tariffs away before any devastation ensues, but it is going to be a tense 12 months in the middle of America.

\textbf{Heartland Counties Hit the Hardest by Chinese Tariffs on U.S. Crops}

![Map of Heartland Counties with production value of corn, cotton, rice, soybeans, and wheat](image)

\textit{Source: U.S. Department of Agriculture, National Agricultural Statistics Service / Authors’ calculations}
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The Walton Family Foundation is, at its core, a family-led foundation. The children and grandchildren of our founders, Sam and Helen Walton, lead the foundation and create access to opportunity for people and communities. We work in three areas: improving K-12 education, protecting rivers and oceans and the communities they support, and investing in our home region of Northwest Arkansas and the Arkansas-Mississippi Delta. In 2017, the foundation awarded more than $535 million in grants in support of these initiatives.