

THE COUNTERFEIT SILK ROAD

IMPACT OF COUNTERFEIT CONSUMER PRODUCTS SMUGGLED INTO THE UNITED STATES

PREPARED FOR:

THE BUY SAFE AMERICA COALITION

BY:

JOHN DUNHAM & ASSOCIATES



THE IMPACT OF COUNTERFEIT CONSUMER PRODUCTS SMUGGLED INTO THE UNITED STATES

EXECUTIVE SUMMARY

The Buy Safe America Coalition represents a diverse group of responsible retailers, consumer groups, manufacturers, intellectual property advocates and law enforcement officials who support efforts at all levels of government to protect consumers and communities from the sale of counterfeit and stolen goods.

One important issue facing US businesses is the massive growth in the availability and sales of illicit products, both from counterfeit imports — increasingly from China — and from products stolen from legitimate retailers and sold through online marketplaces, where the anonymity of a screenname has made it easier and more profitable to fence counterfeit and stolen goods. The Coalition asked John Dunham & Associates (JDA) to examine the data around these illicit sales to determine how they impact the US economy, federal tax revenues, and criminal activity.

This is the first of a series of papers examining the issue of counterfeit and stolen goods and its effect on the United States economy. This analysis will focus on the importation of illicit products, notably counterfeits that violate producers' intellectual property rights. Future analysis will examine the effects of domestic smuggling, the resale of stolen goods, and the effects of contraband on overall criminal activity.



According to the analysis:

- A large share of contraband items are delivered to US consumers by mail or by express
 consignment. These transactions account for over 60.8 percent of all seizures by the US customs
 service and over 90 percent of intellectual property rights (IPR) seizures. The growth in these
 types of shipments has increased along with the use of online marketplaces. Amazon, for instance,
 now derives more than 75 percent of their ecommerce revenue from marketplace sales.¹
- In effect, as companies like the Chinese ecommerce marketplace Alibaba and the Amazon
 marketplace, have linked more consumers to more shippers, many companies producing illegitimate
 products have gained access to unwitting consumers in America.
- The bulk of counterfeit products to the US come from China and its dependent territories, accounting for over 90.6 percent of all cargo with IPR violations. Of the \$1.23 billion in total IPR violations intercepted, \$1.12 billion was from China.
- Examining just those data where CBP can provide an HS code, in some cases, the amount of
 contraband cargo is nearly equal to the entire import base.² For example, imports of certain
 sweaters, jumpsuits and toys from China are almost 100 percent contraband, as are large amounts
 of handbags, jewelry and belts.
- While there is substantial academic literature on the smuggling of narcotics, people and tobacco, there is very little written on counterfeit products. Using a very conservative model it is estimated that \$44.3 billion in additional illicit cargo is escaping detection.
- These lost sales alone mean that over 39,860 jobs in wholesaling and nearly 283,400 retail jobs are
 lost due to the impact of counterfeit goods skirting normal trade channels. All told, the sale of
 counterfeit items is expected to cost the wholesale and retail sectors of the US economy nearly
 653,450 full-time equivalent jobs, that pay over \$33.6 billion in wages and benefits to US workers.
- It is estimated that the smuggling of counterfeit goods costs the US government nearly \$7.2 billion in personal and business tax revenues alone.
- This analysis is based on the current level of CBP intercepts of illicit cargo. It is likely that the number of illegal imports is much larger than even estimated here.

Over 7.2 percent of the cargo identified as seized in the data provided by CBP was labeled as CGD, CID, EVD, GEN, NONE, VEH or blank.



In 2020, \$295 billion worth of products were sold by third-parties on the Amazon marketplace. Meanwhile, Amazon's own retail sales were only \$180 billion. Kaziukenas, Jouzas, *Marketplaces Year in Review 2020*, Marketplace Pulse, at: www.marketplacepulse.com/marketplaces-year-in-review-2020

BACKGROUND

The Buy Safe America Coalition represents a diverse group of responsible retailers, consumer groups, manufacturers, intellectual property advocates and law enforcement officials who support efforts at all levels of government to protect consumers and communities from the sale of counterfeit and stolen goods.

One important issue facing US businesses is the massive growth in the availability and sales of illicit products, both from counterfeit imports — increasingly from China — and from products stolen from legitimate retailers and sold through online marketplaces where the anonymity of a screenname has made it easier and more profitable to fence counterfeit and stolen goods. The Coalition asked John Dunham & Associates (JDA) to examine the data around these illicit sales to determine how they impact the US economy, federal tax revenues, and criminal activity.

This is the first of a series of papers examining the issue of organized retail crime (ORC), and its effect on the US economy. This analysis will focus on the importation of illicit products, notably counterfeits that violate producers' intellectual property rights. Future analysis will examine the effects of domestic smuggling, the resale of stolen goods, and the effects of contraband on overall criminal activity.

CUSTOMS SERVICE DATA

One source of illicit products sold through fences and ecommerce sites are counterfeit products brought into the United States illegally. According to US Customs and Border Protection (CBP), most counterfeit products now come through international mail and express courier services. Since FY2013, CBP has seen a 168 percent increase in the number of express consignment and international mail shipments, and in FY 2019, the agency processed over 600 million express consignment and international mail shipments.³

Table 1
Cargo Seized by CBP by Mode of Transportation

Mode of Transportation	Value	Percent
Express Consignment	\$ 550,850,543	44.8%
Commercial Vessel	\$ 277,761,292	22.6%
Commercial Air	\$ 196,568,270	16.0%
Mail	\$ 179,544,146	14.6%
Other	\$ 12,818,618	1.0%
Train	\$ 12,327,801	1.0%
Truck	\$ 1,052,214	0.1%
Total	\$ 1,230,922,884	100.0%

³ CBP Trade and Travel Report: Fiscal Year 2019, US Customs and Border Protection, January 2020, at: https://www.cbp.gov/sites/default/files/assets/documents/2020-Jan/CBP%20FY2019%20Trade%20and%20Travel%20Report.pdf

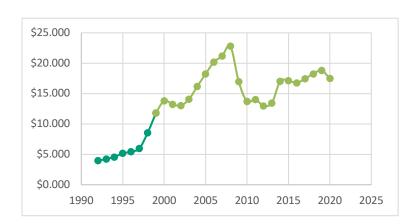


In FY2019, over 90 percent of intellectual property rights (IPR) seizures were found in express and international mail shipments,⁴ and based on data provided through a freedom of information request, over 59.3 percent of all goods seized by CBP were being shipped by mail or international express consignment services.⁵ This compares to just 22.6 percent arriving by ocean vessel. Table 1 outlines the source of illicit shipments seized by carrier type.

This is not a new phenomenon. According to CBP data, mail and express consignment services have been the primary source of IPR seizures since at least 2007.6 During that year, seizures from these sources accounted for roughly 75 percent of all interceptions, a number which fell to roughly 70 percent until FY 2013, when they rose to about 90 percent. Seizures from express consignment and mail deliveries have averaged 89.6 percent since then.

The growth in IPR seizures from mail and express consignment delivery has closely tracked the growth in ecommerce sales.

Figure 1
Growth in Section 321 Shipments



Rather than being imported by smugglers and then sold through illegitimate retailers, street vendors or ecommerce sites, according to CPB, the US consumer now initiates most imports, most of which are *Section 321 shipments* that meet de minimis requirements to

Smugglers Hide Behind Ecommerce Services

The growth in IPR violations has closely tracked the growth in ecommerce. Before the advent of Alibaba, Amazon, Ebay, and other on-line services, smugglers had to ship goods to a network of traffickers who used street dealers and other physical means to get counterfeit products to market. This can still be seen today in places like New York City, where operatives working for criminal networks sell counterfeit watches and handbags on the street.

Now, with the advent of ecommerce, most of these illicit transactions are enacted by the buyer when they order products on-line, through catalogues or by phone. In many of these cases, third-party sellers working under the umbrella of legitimate ecommerce sites, then directly ship the counterfeit product to the seller either by mail or courier service. Many, if not most of these consumers may not be aware that the products are illicit in any way.

The growth in these transactions closely matches the growth in ecommerce services. In fact, there is a strong correlation between the growth in ecommerce services and the percentage of IPR seizures made from mail or express courier deliveries. As ecommerce shopping has grown from about 3 to about 10 percent of all retail transactions, the percentage of seizures from non-cargo shipments has risen as well, from about 70 to nearly 90 percent.

This growth parallels changes in ecommerce marketplaces, with the Chinese Alibaba launching AliExpress.com in 2010 and 11 Main in 2014, a site geared to the US market that hosts more than 1,000 merchants in categories such as clothing, fashion accessories and jewelry. Meanwhile, Amazon.com, which began as an online book broker in 1995, launched its *Prime* service in 2005, the same year that Etsy began its service for third-party retailers.

A significant increase in these shipments began in 2014 when Amazon launched its *Marketplace* for third-party retailers.

The earliest year for which data are available. See: *IPR Annual Seizure Statistics*, U.S. Customs and Border Protection, Office of Trade, Various Years at: https://www.cbp.gov/trade/priority-issues/ipr/statistics



⁴ Ibid

Freedom of Information Act (FOIA) request CBP-2020-080130 to U.S. Customs and Border Protection (CBP), September 14, 2020. Seizure data from October 2018 through September 2019.

enter duty-free into the US. Generally, these are shipments with a value of \$800 or less.⁷

As Figure 1 shows, Section 321 shipments have grown dramatically over the past 35 years, from just around \$4.0 billion in 1992 to \$17.5 billion last year.⁸ While part of this is due to inflation, the largest increases occurred as companies like Alibaba and Amazon were promoting their ecommerce services to outside parties. It is interesting to note that overall, 321 shipments fell dramatically following the 2007-2008 recession and have stabilized in the \$18 billion range since then (see box).

As expected, the fastest growth in 321 shipments in dollar terms has been from the People's Republic of China, with other major trade partners like Mexico and Germany following at a distant 2nd and 3rd place.

Table 2
Growth in Section 321 Shipments by Exporting Country

Country	Growth (\$)	Country	Growth (%)
China	\$ 3,394,006,143	Djibouti	27636.0%
Mexico	\$ 1,595,827,914	Niue	17293.8%
Germany	\$ 596,736,024	Bosnia & Herzegovina	10706.2%
Italy	\$ 302,611,914	Kyrgystan	10420.4%
Taiwan	\$ 291,530,755	Laos	7993.5%
South Korea	\$ 235,785,303	Sierra Leone	6521.1%
Ecuador	\$ 159,471,486	St. Helena	5794.6%
Vietnam	\$ 151,085,343	Ethiopia	5555.7%
Columbia	\$ 147,449,646	Bangladesh	5458.9%

Examining the seizure data provided by the customs service shows that almost 36.9 percent of all shipments intercepted were Section 321 shipments; however, these represented just 0.6 percent of the total value of products seized by the customs service. Table 3 below shows how the vast majority of shipments with IPR violations seized by the CBP are generally small in size.



Op. cit., CBP Trade and Travel Report.

Data from USA Trade Online, US Department of Commerce, Bureau of the Census, at: https://usatrade.census.gov/index.php?do=login

Table 3
Cargo Seized by CBP by Value of Shipment

-	Number of	Percent of
Value Range	Shipments Siezed	Shipments Siezed
\$0-\$100	3,764	6.2%
\$101-\$800	18,548	30.6%
\$801-\$1,000	3,315	5.5%
\$1,001-\$5,000	19,793	32.7%
\$5,001-\$10,000	5,210	8.6%
\$10,001-\$100,000	8,198	13.5%
\$100,001-\$1,000,000	1,561	2.6%
Over \$1,000,000	153	0.3%
Total	60,542	100.0%

Obviously, with so many small shipments being drop-shipped to consumers from sources located all over the world, it is difficult to ensure that counterfeit and dangerous products don't reach American households. Fortunately for law enforcement, the shipments that do violate IPR, or other laws, originate mainly from China or its dependent territories of Macau and Hong Kong, meaning that the customs service can concentrate on these particular countries of origin.

Again, looking at the seizure statistics, over 90.6 percent of all cargo with IPR violations comes from China or its dependent territories. Of the total \$1.23 billion in IPR violations intercepted, \$1.12 billion was from China. This is equal to over 29.0 percent of all Section 321 shipments from China and its dependent territories. Compare this to the \$0.11 billion intercepted from all other countries – just 0.08 percent of shipments.

This cargo tends to be concentrated into just a few products. Examining just those data where CBP can provide an HS code, in some cases, the amount of contraband cargo is nearly equal to the entire import base. For example, imports of certain sweaters, jumpsuits and toys are almost 100 percent contraband, as are large amounts of handbags, jewelry and belts.

Over 7.2 percent of the cargo identified as seized in the data provided by CBP was labeled as CGD, CID, EVD, GEN, NONE, VEH or blank.



As Table 4 on the following page shows, nearly all these products emanate from China and its dependent territories. No other country is the source for this much IPR related contraband, only Turkey (which represents 1.2 percent of contraband sales) and Vietnam (1.1 percent), even top one percent. China, on the other hand, accounts for 90.6 percent of all seized goods.¹⁰ In addition, contraband imports from China are highly skewed toward parcels and general mail, suggesting that a large portion are drop-shipped via an

It's Not Just Fancy Watches

Buying a fake Rolex or Fendi bag on New York City's Canal Street is seen by many as an innocent tourist experience. However, it is not, in that it costs American companies billions of dollars in lost sales, and often sends money to gangs, terrorist organizations and even North Korea.

But smuggling of illicit products goes well beyond the designer brands featured on Canal Street. According to Fox Business, the Customs Service intercepted 171,460 fake N95 masks that originated in China. (https://www.foxnews.com/us/cbp-intercepts-counterfeit-n95-masks-worth-)350k-originated-china

The counterfeit masks, which would be used to protect front-line workers from infections, such as COVID-19, came in boxes with the National Institute for Occupational Safety and Health logo on them.

CBP has seized approximately 18 million counterfeit masks in the first three months of 2021 – well above the 12 million that the agency seized for all of fiscal year 2020 and a mere 1,300 in fiscal year 2019.

Internet sale. Nearly 60.4 percent of all of this IPR-related contraband cargo seized from China entered the country this way, while a smaller share, 49.0 percent, came via parcel from other countries.

To counteract the problem, CBP ran a public awareness campaign on the "Truth Behind Counterfeits" during FY2019. The campaign, which was intended to educate the public on the negative impacts associated with the purchase of counterfeit goods, highlighted how purchasing knockoffs can damage the US economy, destroy American jobs, support criminal activity, and be harmful to the health and safety of consumers.¹¹

While it is impossible to fully document the extent of contraband goods entering US commerce, the very fact that such a large percentage of overall recorded imports are captured by the customs service for certain product categories suggests that most other recorded cargo is likely being legitimately shipped, at least in the case of items like handbags, garments, jewelry, electronic parts and certain chemicals. What is not known is what comes in through the black market, where the good is never recorded as entering the country. With such a small amount of cargo entering US customs territory over land, this may be a major source for these goods. 12



Op. cit., Freedom of Information Act (FOIA) request CBP-2020-080130.

Op. cit., CBP Trade and Travel Report.

As it is with illegal narcotic drugs.

ESTIMATES OF ADDITIONAL SMUGGLED CONTRABAND PRODUCTS

The Danger of Illicit Products

Counterfeit products do not only cause economic losses, as legitimate manufacturers, wholesalers and retailers see their markets undercut by products violating international property rights regulations, but illicit products can also be extremely dangerous.

For example, an investigation by reporters with the Wall Street Journal, found 4,152 items for sale on Amazon's Marketplace that have been declared unsafe or banned by federal regulators, or have deceptive labels. These include 116 products that were falsely listed as "FDA-approved" including 98 eyelash-growth serums that never undertook the drug-approval process to be marketed as approved. It also included 80 listings for infant sleeping wedges the FDA has warned can cause suffocation. (Wall Street Journal, August 23, 2019)

According to a recent report by the Department of Homeland Security, counterfeiting is no longer confined to street-corners and flea markets. The report cites figures from the Organization for Economic Cooperation and Development (OECD) which suggest that the amount of counterfeit goods traded internationally was \$509 billion in 2016.¹³ While this is the worldwide figure, the amount of counterfeit products imported into the United States alone is staggering.

Using the data from the customs service, and US overall trade data, it is possible to estimate the overall scope of contraband goods being imported into the United States. It is obvious from the outset that the Customs Service is not intercepting anywhere near the volume of contraband cargo entering the

country, for were they, there would be no counterfeit handbags, perfume or Gucci watches being sold on the streets of America. But while data on what is intercepted are available, what is not intercepted is, by definition, unknown. In addition, while there is substantial academic literature on the smuggling of narcotics, people and tobacco, there is very little written on counterfeit products.¹⁴

Using a Monte Carlo analysis to determine the total size of the illicit import market (see Methodology), gives an estimated total market of over approximately \$45.5 billion, of which the customs service intercepted \$1.2 billion, or about 2.7 percent. This suggests that as much as 10 percent of the counterfeit goods shipped worldwide come to the United States. Table 5 on the following page shows the estimated illegitimate imports by major category. Over 99.3 percent of the products are manufactured goods, however, there are products classified under the agriculture, mineral and other sectors as well. Of these, most are food products (see box), while others are items made of glass, crystal and stone.

The most detailed literature concerns cigarette smuggling, both international and domestic. See the Methodology section for details on how this is used to estimate overall smuggling of counterfeit goods.



Combating Trafficking in Counterfeit and Pirated Goods: Report to the President of the United States, US Department of Homeland Security, Office of Strategy, Policy & Plans, January 24, 2020, at: https://www.dhs.gov/sites/default/files/publications/20_0124_plcy_counterfeit-pirated-goods-report_01.pdf

Table 4
Major Contraband Categories Intercepted by US Customs

				Contraband from	Contrabnd as pct of Legitimate
HS Code	Product	Contraband		China	Chinese Imports
7117199000	Other Imitation Jewelry Of Base Metal (kg)	\$ 412,878,484	\$	383,051,477	39.21%
7117909000	Othr Imit Jwlry Ov \$.20 Pr Dz Pcs O Prts (kg)	\$ 222,115,977	\$	211,471,534	53.65%
4203300000	Belts & Bandoliers With Or Without Buckles (no)	\$ 52,499,758	\$	48,726,800	9.92%
3303003000	Perfumes And Toilet Waters Containing Alcohol (kg)	\$ 42,826,986	\$	27,413,044	1.83%
6110303005	B/g Sweater & Smlr Art As Plyst Pt Of Ot mmf, Knit (doz)	\$ 33,011,504	\$	30,440,792	98.08%
4202299000	Handbags,nesoi (no)	\$ 31,981,086	\$	27,844,980	67.70%
9004100000	Sunglasses (doz)	\$ 30,968,007	\$	29,164,031	1.85%
4202216000	Handbags, Outer Surface Leather, val Not Over \$20 E (no)	\$ 27,072,304	\$	25,307,061	18.75%
8421210000	Water Filtering Or Purifying Machinery & Apparatus (no)	\$ 26,253,183	\$	25,034,297	1.95%
8517700000	Parts Or Apps For Trasmisit/recp Of Voice/img/data (no)	\$ 25,033,796	\$	22,040,444	0.54%
4202322000	Art For Pocket Or Handbg, of Plastic Sheeting, nesoi (no)	\$ 23,513,798	\$	19,820,708	25.46%
6103431550	Men's Shorts Of Other Synthetic Fibers, Knit (doz)	\$ 19,984,185	\$	18,951,185	5.59%
7117196000	Othr Toy Jewelry, Base Metal, Not Over 8 Cents Ea (kg)	\$ 17,737,171	\$	16,927,078	94.72%
6211431007	W/g Cvrals & Sim Apparel mmf, Insltd Nesoi, Nt Kt (doz)	\$ 17,032,176	\$	16,370,498	97.08%
4202219000	Handbags, outer Surface Of Leather, val Over \$20 Ea (no)	\$ 14,299,405	\$	11,960,259	0.79%
-		 1 222 222 224	_	4 445 700 000	0.050
Total		\$ 1,230,922,884	Ş	1,115,732,323	0.05%

The wide range of products being smuggled from China is hard to imagine. In February of this year, the CBP confiscated 36 counterfeit guitars at Dulles Airport.¹⁵ Some of these were even autographed with fake signatures.

Based on these confiscation data, the universe of smuggled products violating international property rights that is not detained by US Customs may be as much as \$44.3 billion.

ECONOMIC IMPACT OF SMUGGLED GOODS

Smuggled and contraband goods, particularly those being drop-shipped by Chinese and other foreign entities, do not enter the normal trade channels in the United States. Even for imported goods that are designed, sourced and manufactured in a foreign country, the transportation, wholesaling and retailing services provided by US based companies account for a large part of the overall value of the product at retail. It is estimated that just 21 product types account for over 60 percent (60.7 percent) of all of the contraband goods entering the United States. These illegitimate imports alone cost domestic retailers nearly \$54.1 billion in sales.

Dulles CBP Picks Counterfeit Guitars to the Tune of \$158K, US Department of Homeland Security, US Customs and Border Protection, Press Release, February 8, 2021, at: https://www.cbp.gov/newsroom/local-media-release/dulles-cbp-picks-counterfeit-guitars-tune-158k



Table 5
Estimate of Contraband Smuggled into the United States (Major Categories Only)

-	I	Est. Illegitimate			
Sector		Imports	V	Vholesale Losses	Retail Losses
Manufacturing	\$	45,224,623,043	\$	14,262,504,241	\$ 23,754,108,620
Agriculture	\$	248,739,709	\$	29,781,905	\$ 49,780,439
Other	\$	44,289,545	\$	1,105,391	\$ 11,636,053
Stone/Glass/Mineral	\$	16,587,330	\$	893,257	\$ 10,113,624
Grand Total	\$	45,534,239,628	\$	14,294,284,794	\$ 23,825,638,735

As Table 6 shows, these products range from cellular telephones (\$6.8 billion in illegitimate imports) to toys (\$1.5 billion in illegitimate imports) to industrial chemicals (\$681.6 million in illegitimate imports). A full list of estimated illegitimate imports is presented in the Appendix.

Table 6
Estimated cost to Wholesalers and Retailers of Contraband Smuggled into the United States (Major Categories Only)

	Est. Illegitimate			
Product	Imports	W	holesale Losses	Retail Losses
Broadcast and wireless communications equipment manufacturing	\$ 6,788,446,370	\$	2,930,859,162	\$ 4,369,776,756
Electronic computer manufacturing	\$ 3,838,501,673	\$	1,119,699,991	\$ 1,509,552,606
Womens and girls cut and sew apparel manufacturing	\$ 1,563,024,952	\$	556,673,289	\$ 884,442,075
Doll, toy, and game manufacturing	\$ 1,520,801,703	\$	661,492,117	\$ 1,418,772,581
Footwear manufacturing	\$ 1,345,429,047	\$	479,176,236	\$ 761,314,819
All other miscellaneous manufacturing	\$ 1,279,247,514	\$	645,520,088	\$ 1,387,851,772
Computer terminals and other computer peripheral equipment manufacturing	\$ 1,278,541,938	\$	373,081,559	\$ 495,379,647
Audio and video equipment manufacturing	\$ 1,118,366,652	\$	595,857,979	\$ 1,345,192,102
Small electrical appliance manufacturing	\$ 1,056,908,994	\$	292,227,241	\$ 650,526,925
Other plastics product manufacturing	\$ 1,034,964,317	\$	114,045,158	\$ 150,270,891
Curtain and linen mills	\$ 787,949,724	\$	323,460,951	\$ 554,879,284
Other basic organic chemical manufacturing	\$ 681,573,354	\$	118,775,611	\$ 235,052,448
Other leather and allied product manufacturing	\$ 659,815,628	\$	174,701,020	\$ 269,969,439
Lighting fixture manufacturing	\$ 658,256,763	\$	189,154,242	\$ 412,528,583
Other motor vehicle parts manufacturing	\$ 622,294,826	\$	84,913,830	\$ 106,226,764
Jewelry and silverware manufacturing	\$ 620,786,696	\$	357,566,372	\$ 578,312,995
Other fabricated metal manufacturing	\$ 619,792,428	\$	127,303,234	\$ 245,601,786
Institutional furniture manufacturing	\$ 571,878,265	\$	118,562,675	\$ 276,546,864
Sporting and athletic goods manufacturing	\$ 571,171,845	\$	230,416,705	\$ 491,583,357
Mens and boys cut and sew apparel manufacturing	\$ 569,791,383	\$	202,931,913	\$ 322,418,060
All other miscellaneous electrical equipment and component manufacturing	\$ 461,899,543	\$	132,271,233	\$ 178,463,573
Total	\$ 27,649,443,616	\$	9,828,690,606	\$ 16,644,663,327

Based on data provided by the US Department of Commerce, Bureau of Economic Analysis, the economic losses to domestic wholesalers and retailers from counterfeits entering US commerce is over \$38.1 billion. This is not the loss in retail sales, but rather the value added that wholesalers and retailers would have generated had these products gone through normal supply chains.



These value-added figures can be converted into jobs using the IMPLAN input/output model. A full description of the model is included in the methodological section to this report, but in basic terms, the model uses the production structure of the US economy to calculate how much production is generated by each employee in each sector of the economy.

In this case, based on where these types of products are sold, it is estimated that 39,860 jobs in wholesaling and nearly 283,400 retail jobs are lost due to the impact of counterfeit goods skirting normal trade channels. Table 7 outlines these losses, along with the lost jobs from suppliers that would serve those establishments, and the lost jobs that would have been induced by employees re-spending their wages in the economy.

Table 7
Estimated 2020 Economic Impact of Contraband Smuggled into the United States (Major Categories Only)

	Jobs	Wages	Output
Wholesale	39,863	\$ 3,700,006,458	\$ 14,133,127,968
Retail	283,393	\$ 9,929,601,160	\$ 23,568,099,880
Total Direct	323,256	\$ 13,629,607,618	\$ 37,701,227,848
Supplier	137,786	\$ 9,207,399,939	\$ 26,076,081,172
Induced	192,405	\$ 10,764,205,892	\$ 34,113,113,912
Total	653,447	\$ 33,601,213,448	\$ 97,890,422,932

In effect, an imported belt, handbag, or bottle of perfume owes the bulk of its retail value to services provided by wholesalers, retailers and transportation companies that package, distribute and hold the product in inventory until such time as the consumer wishes to purchase it. All told, smuggling of counterfeit items is expected to cost the wholesale and retail sectors of the US economy nearly 323,260 full-time equivalent jobs, paying over \$13.6 billion in wages and benefits to workers.

LOST TAXES DUE TO SMUGGLED PRODUCTS

In addition to leading to lost jobs, the smuggling of counterfeit products into the country reduces tax revenues. This not only includes sales tax revenues that are not collected when consumers purchase items through normal trade channels, but customs duties for the federal government.

Table 8
Estimated Fiscal Losses due to Reduced Economic Activity

	Federal	State & Local	Total
From Wholesaling Activities	\$ 2,401,440,480	\$ 1,834,330,233	\$ 4,235,770,713
From Retailing Activities	\$ 4,750,056,860	\$ 4,559,275,826	\$ 9,309,332,686
Total	\$ 7,151,497,340	\$ 6,393,606,059	\$ 13,545,103,399



In addition, the lost jobs and wages resulting from smuggling lead to losses in taxes from businesses and workers. The loss of 653,450 workers due to smuggling will reduce state and local tax collections from income taxes, property taxes, sales taxes and excise taxes that these workers would have generated in the economy, but also lost profits, taxes and license fees from businesses. The same is true for the federal government, which would see reduced income taxes, social security taxes and excise taxes. All told, it is estimated that smuggling of counterfeit goods costs the government over \$13.5 billion in these tax revenues alone.

CONCLUSION

Based on an extremely conservative analysis of smuggled contraband products, over \$45.5 billion in contraband products are likely entering US commerce each year. This is on top of the over \$1.2 billion worth of products detained by the US Customs Service, which represents nearly 10 percent of all contraband products shipped between countries.

Its More Than Just the Economics

A recent report in the Cincinnati Enquirer stated that US Customs officers in that city seized 242 fake Cartier bracelets from China with a retail value of \$3.6 million. (https://www.cincinnati.com/story/news/2021/04/19/fake-cartier-bracelets-seized-cincinnati-were-headed-indiana-customs-says/7283940002/)

According to Cincinnati Port Director Richard Gillespie, "Purchasing counterfeit goods not only damages our small businesses and enterprises, but also supports criminal institutions that often engage in human rights violations such as child labor and forced labor."

Since these products do not enter normal distribution channels, they likely cost the US economy nearly 653,450 full-time equivalent jobs, paying over \$33.6 billion in wages and benefits to workers. In addition, over \$13.5 billion in personal and business tax revenues alone, not to mention state and local sales taxes, would be lost.

The majority of these products come from China and its dependent territories. Of the total \$1.23 billion intercepted, \$1.12 billion, or 91.1 percent was from China.



ABOUT JOHN DUNHAM & ASSOCIATES

John Dunham & Associates (JDA) is a leading economic consulting firm specializing in the economics of fast-moving issues. JDA is an expert at translating complex economic concepts into clear, easily understandable messages that can be transmitted to any audience. Our company's clients have included a wide variety of businesses and organizations, including some of the largest Fortune 500 companies in America, such as:

- Altria
- Diageo
- Feld Entertainment
- Forbes Media
- MillerCoors
- Verizon
- Wegmans Stores

John Dunham is a professional economist with over 35 years of experience. He holds a Master of Arts degree in Economics from the New School for Social Research as well as an MBA from Columbia University. He also has a professional certificate in Logistics from New York University. Mr. Dunham has worked as a manager and an analyst in both the public and private sectors. He has experience in conducting cost-benefit modeling, industry analysis, transportation analysis, economic research, and tax and fiscal analysis. As the Chief Domestic Economist for Philip Morris, he developed tax analysis programs, increased cost-center productivity, and created economic research operations. He has presented testimony on economic and technical issues in federal court and before federal and state agencies.

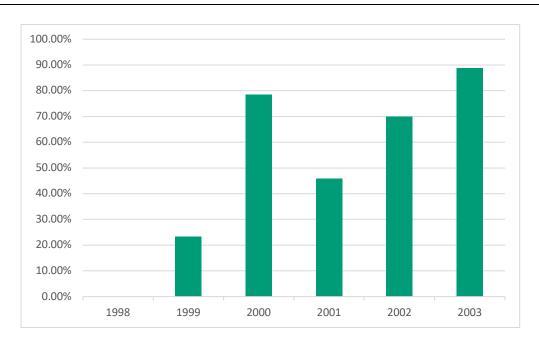
Prior to Phillip Morris John was an economist with the Port Authority of New York and New Jersey as well as for the City of New York.



METHODOLOGICAL APPENDIX

The most studied form of international smuggling for products legitimately sold at retail is the illicit trade in cigarettes. Spurred by what were then extraordinarily high excise taxes, and more stringent marketing restrictions in the late 1990s - the volume of contraband cigarettes exploded. In fact, based on research conducted by the General Accounting Office, in the early part the 2000s, when high taxes and minimal penalties began to encourage cigarette smuggling, seizures of cigarettes indicated that as many as 80 percent were counterfeit.¹⁶

Figure 2
Counterfeit Cigarettes as a Percent of Internationally Smuggled Cigarettes



Because of the profitability of the trade, by 2003, cigarettes accounted for about 44 percent of all illicit cargo seized by US customs agents, whereas today, watches and jewelry account for about 45 percent of the cargo seized. As is the case today, much of this was shipped by on-line retailers based in off-shore locations.

These figures suggest that the size of the counterfeit cigarette trade in the early part of the century can serve as a good proxy, at least when it comes to the larger IPR smuggling categories. And this market was substantial. Based on a number of studies by academics on both sides of the cigarette debate, the size of the overall tobacco market supplied by internationally smuggled products ranges fairly widely, but generally falls in the neighborhood of at least 10 percent.¹⁷

See for example: von Lampe, Klaus, *The cigarette black market in Germany and in the United Kingdom*, <u>Journal of Financial Crime</u>, Vol. 13, No. 2, April 2006, at: <u>www.emeraldinsight.com/1359-0790.htm</u>. This paper reports that international smuggling accounts for between 15 and 21 percent of the market in the UK and 9.5 percent in Germany; Levinson, Bruce, *An Inquiry into the Nature, Causes and Impacts of Contraband Cigarettes*, Center for Regulatory Effectiveness, January 2011, which reports



CIGARETTE SMUGGLING Federal Law Enforcement Efforts and Seizures Increasing, General Accounting Office, GAO-04-641, May 2004, at: https://www.gao.gov/assets/gao-04-641.pdf

The literature on international cigarette smuggling can be a good model to use to determine the volume of IPR related smuggling, since a large portion of this product is indeed counterfeit. The model uses a bounded Monte Carlo simulation analysis.

Monte Carlo simulation is a probability simulation used to estimate the possible outcomes of an uncertain event. In this case, the model is used to estimate the average amount of contraband cargo for each of the product categories imported from China.

The technique was invented during World War II to improve decision making under uncertain conditions and uses a probability simulation similar to a game of roulette – thus the name. Monte Carlo simulation predicts a set of outcomes based on a set of fixed input values and a given probability distribution. In this case, the model uses a normal probability distribution and a mean value of 10 percent (from the tobacco literature) and a standard deviation of 0.273, which is the measure of the amount of variation in the percentage of imports by HS code from China. In effect, the model is based on a simulation of smuggling values representing the range of legitimate imports from China and an average smuggling rate of 10 percent.

The Monte Carlo Simulation builds a model of possible results using the probability distribution, by recalculating the results over and over, each time using a different set of random numbers between the minimum and maximum values. In this case, the minimum value is the amount of contraband intercepted by US Customs in 2019, and the upper value is unbounded. The model is run 250 times, and the average mean percent of those 250 simulations is used in this model.

The model uses data from the US Customs service to measure overall imports in 2019 by commodity, for a total of 20,074 commodity types. The same data are used to estimate imports from China and its dependent territories of Hong Kong and Macau.¹⁸

For HS 9999950000 (Estimated Imports Of Low Valued Transactions), the percentage of low-value transactions from the customs smuggling data (0.7 percent by value) was split across categories and added back into the overall import data. So too was the intercepted contraband data. This provides an estimate of overall imports into the US of all products both legitimate and illegitimate. This was the baseline dataset that the Monte Carlo simulation was run with.

In this case, the model predicts that the overall value of smuggled counterfeit imports was approximately \$46.1 billion. From this, about \$612.5 million was removed because they were products classified as returns of US goods, or other non-commercial categories. This brought the total estimate of smuggled products to \$45,534.2 million of which the customs service intercepted \$1,230.9 million, or about 2.7 percent. The vast share of these imports would be from China.

Margins After Redefinitions: 2007 Detail, Industry Economic Accounts Directorate, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.



that the smuggled share of the Brazilian cigarette market reached 20 percent, Joossens, Luk and Martin Raw, From cigarette smuggling to illicit tobacco trade, Tobacco Control, February 2012, at:

https://tobaccocontrol.bmj.com/content/tobaccocontrol/21/2/230.full.pdf, which suggests that updated estimates of the illicit cigarette trade from 84 countries around the world showed that 11.6% of cigarette consumption in these countries is illicit, 16.8% in low-income countries, 11.8% in middle-income countries, 12.7% in low-income and middle-income countries combined and 9.8% in high-income countries.

The estimated illegitimate import data were linked to wholesale and retail margin data from the US Department of Commerce, Bureau of Economic Analysis. These data provide the markups that bring the import price of each product to both the wholesale and retail prices. This allows for a calculation of the value added domestically at each stage that is lost because the products are not going through normal retail channels. These value-added estimates are used to calculate the economic impacts of smuggled products on US wholesalers and retailers using the IMPLAN model.

IMPLAN Model

The analysis utilizes the IMPLAN model to calculate economic impacts.¹⁹ The model adopts an accounting framework through which the relationships between different inputs and outputs across industries and sectors are computed. This model can show the impact of a given economic decision – such as a retailer opening – on a pre-defined, geographic region. It is based on the national income accounts generated by the US Department of Commerce, Bureau of Economic Analysis (BEA).²⁰

The IMPLAN model is designed to run based on the input of specific direct economic factors. It uses a detailed methodology (see IMPLAN Methodology section) to generate estimates of the other direct impacts, tax impacts and supplier and induced impacts based on these entries. In the case of this model, estimated changes in the estimated retail sales price of contraband products is a starting point for the analysis.

Once the changes in sales have been established, they are entered into a model linked to the IMPLAN database. The IMPLAN data are used to generate estimates of employment direct wages and output. Wages are derived from the U.S. Department of Labor's ES-202 reports. IMPLAN uses this data to provide annual average wage and salary, establishment counts, employment counts, and payrolls at the county level. Since this data only covers payroll employees, it is modified to add information on independent workers, agricultural employees, construction workers, and certain government employees. Data are then adjusted to account for counties where non-disclosure rules apply. Wage data include not only cash wages, but health and life insurance payments, retirement payments and other non-cash compensation. In short, it includes all income paid to workers by employers.

Total output is the value of production by industry in a given state. It is estimated by IMPLAN from sources similar to those used by the Bureau of Economic Analysis (BEA) in its RIMS II series. Where no Census or government surveys are available, IMPLAN uses models such as the Bureau of Labor Statistics' growth model to estimate the missing output.

The model also includes information on income received by the federal, state and local governments and produces estimates for the following taxes at the federal level: corporate income; payroll, personal income, estate and gift, customs duties; and fines, fees, etc. State and local tax revenues include estimates of:

The IMPLAN model is based on a series of national input-output accounts known as RIMS II. These data are developed and maintained by the U.S. Department of Commerce, Bureau of Economic Analysis as a policy and economic decision analysis



The model uses 2018 input/output accounts.

corporate profits, property, sales, severance, estate and gift and personal income taxes; licenses and fees and certain payroll taxes.

IMPLAN Methodology²¹

Input-output analysis, for which Wassily Leontief received the 1973 Nobel Prize in Economics for, is an econometric technique used to examine the relationships within an economy. It captures all monetary market transactions for consumption in a given period and for a specific geography. The IMPLAN model uses data from many different sources – as published government data series, unpublished data, sets of relationships, ratios, or as estimates. IMPLAN gathers this data, converts them into a consistent format, and estimates the missing components.

There are three different levels of data generally available in the United States: federal, state, and county. Most of the detailed data are available at the county level, but there are many issues with disclosure, especially in the case of smaller industries. IMPLAN overcomes these disclosure problems by combining a large number of datasets and estimating variables that are not found in the merged data. The data are then converted into national input-output matrices (Use, Make, By-products, Absorption, and Market Shares) as well as national tables for deflators, regional purchase coefficients, and margins.

The IMPLAN Make matrix represents the production of commodities by industry. The Bureau of Economic Analysis (BEA) Benchmark I/O Study of the US Make Table forms the bases of the IMPLAN model. The Benchmark Make Table is updated to current year prices and rearranged into the IMPLAN sector format. The IMPLAN Use matrix is based on estimates of final demand, value-added by sector, and total industry and commodity output data as provided by government statistics or estimated by IMPLAN. The BEA Benchmark Use table is then bridged to the IMPLAN sectors. Once the re-sectoring is complete, the Use tables can be updated based on the other data and model calculations of interstate and international trade.

In the IMPLAN model, as with any input-output framework, all expenditures are in terms of producer prices. This allocates all expenditures to the industries that produce goods and services. As a result, all data not received in producer prices are converted using margins derived from the BEA Input-Output model. Margins represent the difference between producer and consumer prices. As such, the margins for any good add up to one.

Deflators, which account for relative price changes during different time periods, are derived from the Bureau of Labor Statistics (BLS) Growth Model. The 224 sector BLS model is mapped to the 544 sectors of the IMPLAN model. Where data are missing, deflators from BEA's Survey of Current Businesses are used.

Finally, the Regional Purchase Coefficients (RPCs) – essential to the IMPLAN model – must be derived. IMPLAN is derived from a national model, which represents the "average" condition for a particular industry. Since national production functions do not necessarily represent particular regional differences, adjustments need to be made. Regional trade flows are estimated based on the Multi-Regional Input-

This section is paraphrased from IMPLAN Professional: Users Guide, Analysis Guide, Data Guide, Version 2.0, MIG, Inc., June 2000



Output Accounts, a cross-sectional database with consistent cross interstate trade flows developed in 1977. These data are updated and bridged to the 544 sector IMPLAN model.

Once the databases and matrices are created, they go through an extensive validation process. IMPLAN builds separate state and county models and evaluates them, checking to ensure that no ratios are outside of recognized bounds. The final datasets and matrices are not released until extensive testing takes place.



Appendix

Detail of all Estimated Illegitimate Imports 2020

Industry/Product	Ille	gitimate Imports		Wholesale Cost		Retail Cost
Printed circuit assembly (electronic assembly) manufacturing	\$	6,788,446,370	\$	2,930,859,162	\$	4,369,776,756
Telephone apparatus manufacturing	\$	3,838,501,673	\$	1,119,699,991	\$	1,509,552,606
Apparel accessories and other apparel manufacturing	\$	1,563,024,952	\$	556,673,289	\$	884,442,075
Gasket, packing, and sealing device manufacturing	\$	1,520,801,703	\$	661,492,117	\$	1,418,772,581
Sawmills	\$	1,345,429,047	\$	479,176,236	\$	761,314,819
Other communications equipment manufacturing	\$	1,278,541,938	\$	373,081,559	\$	495,379,647
Semiconductor and related device manufacturing	\$	1,118,366,652	\$	595,857,979	\$	1,345,192,102
Household laundry equipment manufacturing	\$	1,056,908,994	\$	292,227,241	\$	650,526,925
Rubber and plastics hoses and belting manufacturing	\$	1,034,964,317	\$	114,045,158	\$	150,270,891
Rope, cordage, twine, tire cord and tire fabric mills	\$	787,949,724	\$	323,460,951	\$	554,879,284
Synthetic rubber manufacturing	\$	681,573,354	\$	118,775,611	\$	235,052,448
Wood preservation	\$	659,815,628	\$	174,701,020	\$	269,969,439
Household refrigerator and home freezer manufacturing	\$	658,256,763	\$	189,154,242	\$	412,528,583
Other aircraft parts and auxiliary equipment manufacturing	\$	622,294,826	\$	84,913,830	\$	106,226,764
Office supplies (except paper) manufacturing	\$	620,786,696	\$	357,566,372	\$	578,312,995
Lawn and garden equipment manufacturing	\$	619,792,428	\$	127,303,234	\$	245,601,786
Office furniture, except wood, manufacturing	\$	571,878,265	\$	118,562,675	\$	276,546,864
Sign manufacturing	\$	571,171,845	\$	230,416,705	\$	491,583,357
Other cut and sew apparel manufacturing	\$	569,791,383	\$	202,931,913	\$	322,418,060
Heavy duty truck manufacturing	\$	461,899,543	\$	132,271,233	\$	178,463,573
Institutional furniture manufacturing	\$	370,895,568	\$	99,770,948	\$	221,438,797
Ball and roller bearing manufacturing	\$	358,461,471	\$	72,980,180	\$	101,690,901
Special tool, die, jig, and fixture manufacturing	\$	352,923,469	\$	116,277,766	\$	170,344,856
Printing machinery and equipment manufacturing	\$	352,325,522	\$	62,469,064	\$	87,368,081
Other apparel knitting mills	\$	351,407,665	\$	38,721,461	\$	73,553,608
Search, detection, and navigation instruments manufacturing	\$	340,804,265	\$	47,952,359	\$	65,887,161
Industrial process furnace and oven manufacturing	\$	339,978,357	\$	60,951,654	\$	84,580,057
Other major household appliance manufacturing	\$	316,579,085	\$	87,527,022	\$	118,910,696
Petroleum refineries	\$	306,228,776	\$	33,490,188	\$	55,221,063
Machine shops	\$	283,466,010	\$	108,639,147	\$	165,027,891
Other motor vehicle parts manufacturing	\$	282,658,043	\$	38,544,167	\$	48,079,575
Prefabricated metal buildings and components manufacturing	\$	281,469,096	\$	115,646,873	\$	178,675,956
Storage battery manufacturing	\$	279,050,693	\$	78,270,316	\$	105,577,776
Footwear manufacturing	\$	276,237,820	\$	98,382,445	\$	156,309,949
Lighting fixture manufacturing	\$	275,092,801	\$	80,280,849	\$	108,317,387
Computer terminals and other computer peripheral equipment manufacturing	\$	273,072,137	\$	56,205,724	\$	83,123,205
Dental laboratories	\$	271,125,276	\$	95,689,488	\$	134,256,356
Electronic connector manufacturing	\$	256,455,845	\$	35,422,288	\$	49,551,993
Biological product (except diagnostic) manufacturing	\$	247,024,930	\$	99,811,333	\$	148,111,793
Custom architectural woodwork and millwork	\$	245,868,146	\$	50,973,759	\$	118,896,047
Flat glass manufacturing	\$	240,974,918	\$	115,211,532	\$	247,368,416
Household cooking appliance manufacturing	\$	240,716,871	\$	69,122,729	\$	92,814,270
Automatic environmental control manufacturing	\$	238,028,784	\$	32,876,904	\$	45,991,337
Other communication and energy wire manufacturing	\$	222,824,794	\$	43,422,991	\$	55,142,213
Rolled steel shape manufacturing	\$	218,048,842	\$	20,901,055	\$	29,782,759
Custom compounding of purchased resins	\$	206,789,271		101,473,642		161,927,503
	\$	197,696,075	\$	46,169,040	\$	60,035,431
Sporting and athletic goods manufacturing	ڔ		Y	40,103,040	~	00,033,431
Sporting and athletic goods manufacturing Fabricated structural metal manufacturing	\$	195,165,711		80,187,504		123,890,759



Industry/Product	Illeg	itimate Imports		Wholesale Cost		Retail Cost
Primary battery manufacturing	\$	185,177,107	\$	46,294,277	\$	57,867,846
Surgical and medical instrument manufacturing	\$	182,983,294	\$	37,915,457	\$	88,444,281
All other miscellaneous electrical equipment and component manufacturing	\$	167,767,484	\$	23,172,304	\$	32,415,623
Commercial fishing	\$	158,129,048	\$	12,939,629	\$	17,574,023
Oil and gas field machinery and equipment manufacturing	\$	157,039,825	\$	58,171,765	\$	87,339,755
Elevator and moving stairway manufacturing	\$	145,505,739	\$	26,259,912	\$	36,375,16
Cut and sew apparel contractors	\$	144,001,132	\$	51,286,183	\$	81,483,440
Motor vehicle body manufacturing	\$	143,825,208	\$	34,817,321	\$	50,997,55
Automobile manufacturing	\$	142,118,534	\$	19,629,632	\$	27,459,79
Wood kitchen cabinet and countertop manufacturing	\$	141,498,854	\$	29,190,946	\$	38,095,26
Other rubber product manufacturing	\$	133,848,747	\$	26,619,380	\$	36,199,15
Ophthalmic goods manufacturing	\$	126,638,468	\$	44,506,998	\$	62,507,96
Other commercial service industry machinery manufacturing	\$	126,583,460	\$	26,851,037	\$	38,126,14
Air and gas compressor manufacturing	\$	125,699,822	\$	35,257,267	\$	47,558,05
Mining machinery and equipment manufacturing	\$	122,911,184	\$	45,529,600		68,358,66
Audio and video equipment manufacturing	\$	121,861,140	\$	32,552,392	\$	43,146,95
Metal coating and nonprecious engraving	\$	120,456,985	\$	46,132,462	\$	69,309,93
Conveyor and conveying equipment manufacturing	\$	119,668,223	\$	21,596,928	\$	29,916,00
Heating equipment (except warm air furnaces) manufacturing	\$	117,906,047		29,242,762		42,179,33
Explosives manufacturing	\$		\$	46,633,771		69,220,57
Fiber optic cable manufacturing	\$	115,087,944		32,280,765		43,543,08
Plastics pipe and pipe fitting manufacturing	\$	113,315,800	\$	12,486,535		16,452,80
Ready-mix concrete manufacturing	\$	112,461,168	\$	40,255,087		82,064,05
Other textile product mills	\$		\$	64,103,950		114,127,84
Power, distribution, and specialty transformer manufacturing	\$		\$	29,442,222		40,221,36
Ammunition, except for small arms, manufacturing	\$	105,754,361		40,530,657		61,567,94
Air conditioning, refrigeration, and warm air heating equipment manufacturing	\$	100,646,401	\$	37,550,815		56,086,33
Analytical laboratory instrument manufacturing	\$	100,577,730	\$	50,461,087		78,557,18
Glass product manufacturing made of purchased glass	\$	100,265,031		35,889,522		73,164,41
Other electronic component manufacturing	\$		\$	28,345,229		38,244,07
Leather and hide tanning and finishing	\$	98,755,991		35,172,070		55,881,35
Musical instrument manufacturing	\$	97,813,301		10,746,869		32,120,11
Paper mills	\$	94,337,692		17,656,915		29,885,03
Construction machinery manufacturing	\$	88,817,515		32,900,391		49,397,02
Totalizing fluid meter and counting device manufacturing	\$	88,654,963		30,030,111		60,089,63
Plastics material and resin manufacturing	\$	86,954,523		6,441,076		19,084,66
Small arms ammunition manufacturing	\$	84,473,528	\$	17,198,203		23,964,05
Motor vehicle steering, suspension component (except spring), and brake systems manufacturing	\$	82,227,314	\$	11,202,752		14,037,58
Printing	\$		\$	8,901,790		14,703,85
Motor vehicle seating and interior trim manufacturing	\$	81,309,982	\$	11,055,543		13,817,43
Electric lamp bulb and part manufacturing	\$	79,317,199	\$	39,794,417		61,951,44
Spring and wire product manufacturing	\$	77,521,603	\$	7,402,225		10,358,09
	\$	76,608,765		10,152,969		
Turned product and screw, nut, and bolt manufacturing	\$ \$	75,501,714	\$			13,878,31
Brick, tile, and other structural clay product manufacturing	\$ \$		\$	18,843,273		25,594,88
Sanitary paper product manufacturing Other household persuphelatored furniture manufacturing		75,413,520	\$	8,309,994		10,949,61
Other household nonupholstered furniture manufacturing	\$	74,955,760	\$	20,163,108		44,751,44
Capacitor, resistor, coil, transformer, and other inductor manufacturing	\$	73,798,110	\$	10,383,654		14,267,27
Pottery, ceramics, and plumbing fixture manufacturing	\$	69,436,795		14,174,025		18,884,94
All other industrial machinery manufacturing	\$	69,085,576		12,249,216		17,131,52
Industrial process variable instruments manufacturing	\$	67,961,041		23,999,444		33,672,30
Nonwoven fabric mills	\$	67,676,547	Ş	9,401,256	Ş	15,650,69



Industry/Product	Illegi	timate Imports	W	/holesale Cost	Retail Cost	
Stationery product manufacturing	\$	67,168,118	\$	7,400,559	\$ 12,296,758	
Photographic and photocopying equipment manufacturing	\$	66,354,133	\$	11,449,514	\$ 16,038,798	
Packaging machinery manufacturing	\$	64,436,986	\$	2,872,283	\$ 3,746,577	
Watch, clock, and other measuring and controlling device manufacturing	\$	64,197,800	\$	32,208,828	\$ 50,142,296	
Bare printed circuit board manufacturing	\$	64,093,069	\$	9,379,474	\$ 10,752,079	
Other basic organic chemical manufacturing	\$	63,370,994	\$	8,536,140	\$ 14,575,026	
Support activities for printing	\$	62,408,815		6,848,933	11,720,844	
Unlaminated plastics profile shape manufacturing	\$	62,268,631	\$	20,828,677	\$ 33,131,374	
Dehydrated food products manufacturing	\$	60,882,286	\$	9,916,861	\$ 13,813,392	
Custom roll forming	\$	60,617,980	Ś	12,341,385	\$ 17,196,540	
Crown and closure manufacturing and metal stamping	\$	59,627,131		12,139,655	16,915,449	
Other engine equipment manufacturing	\$	59,482,969		8,098,500	10,122,738	
Burial casket manufacturing	\$	58,915,073		29,729,089	63,916,785	
Cutting tool and machine tool accessory manufacturing	\$	58,737,756		10,152,205	13,894,376	
Aircraft manufacturing	\$	58,171,970		8,310,281	9,497,464	
Wood windows and door manufacturing	\$	58,076,523		10,870,016	18,397,939	
Industrial mold manufacturing	\$	55,113,861		18,174,398	26,696,662	
Mens and boys cut and sew apparel manufacturing	\$	54,464,622		19,397,643	30,818,960	
Wood office furniture manufacturing	\$	53,706,278		10,864,427	25,500,992	
Mineral wool manufacturing	\$	53,629,081		7,045,057	17,448,176	
Switchgear and switchboard apparatus manufacturing	\$	53,310,059		14,754,122	20,073,918	
• • • • • • • • • • • • • • • • • • • •	\$					
Dental equipment and supplies manufacturing		51,961,942		21,330,877	36,591,935	
Nonferrous metal (exc aluminum) smelting and refining	\$	50,364,633		4,316,969	6,413,782	
Metal window and door manufacturing	\$	49,571,596		4,664,741	6,691,639	
Railroad rolling stock manufacturing	\$	49,522,776		2,153,164	2,743,644	
Secondary smelting and alloying of aluminum	\$	48,741,232		4,672,087	6,657,446	
Artificial and synthetic fibers and filaments manufacturing	\$	48,568,695		5,351,899	7,051,896	
Propulsion units and parts for space vehicles and guided missiles manufacturing	\$	48,556,918		2,111,170	2,690,134	
Welding and soldering equipment manufacturing	\$	48,493,189		8,598,083	12,025,120	
Blank magnetic and optical recording media manufacturing	\$	48,406,072		24,285,923	37,808,018	
Turbine and turbine generator set units manufacturing	\$	47,770,146		8,469,884	11,845,824	
Pump and pumping equipment manufacturing	\$	46,867,145		6,380,878	7,975,793	
Textile bag and canvas mills	\$	46,209,370		22,079,820	36,976,296	
Other pressed and blown glass and glassware manufacturing	\$	45,994,989		21,990,476	47,215,319	
Reconstituted wood product manufacturing	\$	44,531,053	\$	8,334,749	\$ 14,106,898	
Rolling mill and other metalworking machinery manufacturing	\$	43,630,978	\$	7,541,157	\$ 10,320,878	
Ground or treated mineral and earth manufacturing	\$	41,939,623	\$	8,530,093	\$ 18,639,832	
Metal barrels, drums and pails manufacturing	\$	41,843,293	\$	3,953,697	\$ 5,525,836	
Mechanical power transmission equipment manufacturing	\$	41,393,393	\$	11,610,342	\$ 15,661,034	
Air purification and ventilation equipment manufacturing	\$	40,972,345	\$	78,013,001	\$ 231,888,988	
Cement manufacturing	\$	40,601,136	\$	14,533,037	\$ 29,627,062	
Bread and bakery product, except frozen, manufacturing	\$	40,213,536	\$	3,290,656	\$ 4,469,221	
Broadcast and wireless communications equipment manufacturing	\$	39,176,366	\$	11,432,913	\$ 15,425,637	
Nonupholstered wood household furniture manufacturing	\$	38,987,679	\$	1,737,878	\$ 2,266,871	
Electromedical and electrotherapeutic apparatus manufacturing	\$	38,769,203	\$	11,102,090	\$ 14,979,211	
Broom, brush, and mop manufacturing	\$	38,072,127	\$	9,501,817	\$ 12,906,353	
Veneer and plywood manufacturing	\$	38,060,712	\$	7,123,714	\$ 12,057,172	
Paint and coating manufacturing	\$	36,977,704		14,940,978	22,171,180	
Tire manufacturing	\$	35,933,824		12,862,389	26,221,277	
Motor vehicle transmission and power train parts manufacturing	\$	35,802,573		1,501,030	1,984,570	
Wiring device manufacturing	\$	35,359,925		10,165,548	13,674,833	



Industry/Product	Illegitimate Imports			Wholesale Cost		Retail Cost	
abric coating mills	\$	33,111,746		19,164,521		34,119,666	
Computer storage device manufacturing	\$	33,105,732		5,869,811	\$	8,209,409	
otor and generator manufacturing	\$	32,096,434	\$	8,878,472	\$	12,004,985	
hosphatic fertilizer manufacturing	\$	31,908,201	\$	3,516,040	\$	4,632,888	
lectronic computer manufacturing	\$	31,864,503	\$	5,724,809	\$	7,951,388	
Notor vehicle gasoline engine and engine parts manufacturing	\$	30,148,153		1,263,968	\$	1,671,140	
osiery and sock mills	\$	30,114,347	\$	3,903,712	\$	6,229,931	
Sypsum product manufacturing	\$	29,979,259	\$	4,088,081	\$	10,406,024	
letal tank (heavy gauge) manufacturing	\$	29,809,611	\$	6,069,023	\$	8,456,602	
oftware and other prerecorded and record reproducing	\$	29,583,939	\$	10,447,134	\$	14,657,799	
urgical appliance and supplies manufacturing	\$	29,110,978	\$	6,035,332	\$	14,077,384	
lass container manufacturing	\$	28,278,550	\$	10,122,209	\$	20,635,145	
urtain and linen mills	\$	28,005,895	\$	3,766,875	\$	5,997,501	
etal cans manufacturing	\$	27,693,575	\$	9,132,259	\$	13,414,520	
lectricity and signal testing instruments manufacturing	\$	27,265,866	\$	8,983,290	\$	13,160,361	
extile and fabric finishing mills	\$	27,075,452	\$	3,608,602	\$	5,755,585	
urface active agent manufacturing	\$	25,974,737		2,636,626		3,514,761	
prestry, forest products, and timber tract production	\$	25,847,313		2,847,392		6,065,171	
eet sugar manufacturing	\$	25,243,676		4,051,118		5,685,021	
onferrous metal, except copper and aluminum, shaping	\$	25,024,546		2,144,961		3,186,799	
sphalt shingle and coating materials manufacturing	\$	24,581,594		1,903,692		4,154,405	
howcase, partition, shelving, and locker manufacturing	\$	23,421,081		4,804,324		11,168,706	
harmaceutical preparation manufacturing	\$	22,663,763		10,195,284	\$	15,632,383	
errous metal foundries	\$	21,998,937		1,885,623		2,801,497	
emiconductor machinery manufacturing	\$	21,922,747		3,887,012		5,436,303	
nit fabric mills	\$	21,297,099		12,326,402		21,945,381	
otorcycle, bicycle, and parts manufacturing	\$	21,196,070		944,816		1,232,409	
ottled and canned soft drinks & water	\$	21,190,070		3,427,362		4,649,064	
rnamental and architectural metal work manufacturing	\$	20,443,616		4,162,173		5,799,591	
•	\$	20,339,253				5,043,636	
ptical instrument and lens manufacturing elay and industrial control manufacturing	\$			3,606,251			
,	\$ \$	20,311,887		5,077,972		6,347,465	
iscellaneous nonmetallic mineral products manufacturing		20,289,498		9,700,529		20,827,814	
ind and shade manufacturing	\$	20,086,834		5,403,360		11,992,606	
itrogenous fertilizer manufacturing	\$	19,108,502		2,105,611		2,774,445	
anufactured home (mobile home) manufacturing	\$	18,991,849		3,554,650		6,016,387	
ght truck and utility vehicle manufacturing	\$	18,227,262		5,219,625		7,042,445	
ut stock, resawing lumber, and planing	\$	17,816,495		3,334,662		5,644,049	
nimal production, except cattle and poultry and eggs	\$	16,477,928		1,176,389		1,736,868	
our milling	\$	16,148,052		2,629,001		3,567,387	
ewelry and silverware manufacturing	\$	15,874,121		5,578,948	\$	7,835,367	
l other converted paper product manufacturing	\$	15,838,224		1,737,113		2,944,176	
awmill, woodworking, and paper machinery	\$	15,467,696	\$	2,742,499		3,835,609	
achine tool manufacturing	\$	15,411,449	\$	2,663,707	\$	3,645,568	
uid power cylinder and actuator manufacturing	\$	15,065,186	\$	7,602,032	\$	16,344,175	
egetable and melon farming	\$	14,927,553	\$	4,813,178	\$	8,924,808	
plystyrene foam product manufacturing	\$	14,349,612	\$	1,581,218	\$	2,083,481	
reakfast cereal manufacturing	\$	14,173,890	\$	2,308,547	\$	3,275,929	
anned fruits and vegetables manufacturing	\$	14,096,985	\$	2,296,501	\$	3,202,105	
asteners, buttons, needles, and pins manufacturing	\$	14,000,203	\$	4,023,047	\$	8,773,907	
ower-driven handtool manufacturing	\$	13,757,535	\$	613,243	\$	799,908	
uid power pump and motor manufacturing	\$	13,750,111		2,437,963	\$	3,409,690	
dustrial truck, trailer, and stacker manufacturing	\$	13,152,212		586,261		764,713	
ther fabricated metal manufacturing	\$	12,887,559		5,112,949		7,774,168	
· · · · · · · · · · · · · · · · · · ·	\$	12,250,133		4,384,893		8,939,046	
arbon and draphite product manufacturing		,_55,_55	~	.,55 .,555	~	_,555,540	
arbon and graphite product manufacturing ayonnaise, dressing, and sauce manufacturing	\$	12,141,101	Ś	1,978,510	Ś	2,647,731	



Industry/Product	Illeg	timate Imports	Wholesale Cost			Retail Cost	
Printing ink manufacturing	\$	11,966,283	\$	5,871,979	\$	9,370,265	
Confectionery manufacturing from purchased chocolate	\$	11,920,339	\$	1,703,799	\$	2,284,444	
ron, steel pipe and tube manufacturing from purchased steel	\$	11,122,124	\$	417,080	\$	7,345,429	
Other millwork, including flooring	\$	11,029,186	\$	2,064,301	\$	3,493,912	
Ory, condensed, and evaporated dairy product manufacturing	\$	10,850,472	\$	1,767,388	\$	2,461,830	
Food product machinery manufacturing	\$	10,840,416	\$	1,922,060	\$	2,688,157	
All other crop farming	\$	10,591,817	\$	3,410,239	\$	6,324,125	
Manufactured ice	\$	10,209,574	\$	1,564,808	\$	2,195,588	
Il other food manufacturing	\$	9,659,933	\$	1,573,495	\$	2,134,376	
olish and other sanitation good manufacturing	\$	9,029,646	\$	720,407	\$	1,049,497	
econdary processing of other nonferrous metals	\$	8,800,758	\$	754,351	\$	1,120,750	
lendering and meat byproduct processing	\$	8,438,593	\$	3,566,997	\$	5,618,248	
Ionferrous metal foundries	\$	8,411,298		315,424		5,555,107	
ree nut farming	\$		\$	2,382,416		4,272,779	
refabricated wood building manufacturing	\$	7,967,465	\$	1,491,248		2,523,996	
radiation apparatus manufacturing	\$	7,915,839	\$	3,971,474		6,182,740	
arrow fabric mills and schiffli machine embroidery	\$		\$	1,018,967		1,626,169	
on and steel mills and ferroalloy manufacturing	\$		\$	2,765,035		5,636,803	
Il other miscellaneous manufacturing	\$		\$	3,651,205		7,849,997	
luminum sheet, plate, and foil manufacturing	\$	7,233,708		603,664		896,872	
rilling oil and gas wells	\$	6,603,486		309,538		4,348,047	
oll, toy, and game manufacturing	\$		۶ \$	2,267,127		3,180,873	
nimal, except poultry, slaughtering	\$		\$ \$	561,292		765,918	
	\$						
reenhouse, nursery, and floriculture production	\$ \$		\$	876,547 2,003,691		1,743,027 2,943,253	
cales, balances, and miscellaneous general purpose machinery manufacturing		6,076,192				, ,	
ulp mills	\$	5,305,671		222,441		294,098	
peed changer, industrial high-speed drive, and gear manufacturing	\$		\$	502,870		716,559	
Il other transportation equipment manufacturing	\$	5,172,980		211,168		274,932	
iber, yarn, and thread mills	\$	5,156,957		2,326,946		3,685,230	
oncrete block and brick manufacturing	\$	5,153,572		702,760		1,788,843	
oasted nuts and peanut butter manufacturing	\$		\$	778,202		1,036,455	
ookie and cracker manufacturing	\$	4,473,872		728,819		970,540	
aminated plastics plate, sheet (except packaging), and shape manufacturing	\$	4,471,119		492,683		649,181	
opper rolling, drawing, extruding and alloying	\$	4,413,782		378,324		562,082	
ice milling	\$	4,384,732	\$	713,861		968,664	
n-vitro diagnostic substance manufacturing	\$		\$	1,696,099		2,516,872	
e cream and frozen dessert manufacturing	\$	4,013,242	\$	653,698	\$	929,293	
oap and other detergent manufacturing	\$	3,982,268	\$	683,043		941,337	
ruit farming	\$	3,738,782	\$	1,205,517	\$	2,235,324	
alt manufacturing	\$	3,537,674	\$	576,643		962,296	
rozen fruits, juices and vegetables manufacturing	\$	3,434,659	\$	490,923	\$	658,227	
mall electrical appliance manufacturing	\$	3,385,426	\$	987,662		1,332,740	
aperboard container manufacturing	\$	3,359,511	\$	370,183	\$	703,184	
ats and oils refining and blending	\$	3,282,020	\$	534,596	\$	760,817	
oilet preparation manufacturing	\$	3,121,250	\$	1,531,630	\$	2,444,113	
hosphate rock mining	\$	3,113,671	\$	145,953	\$	2,050,188	
roadwoven fabric mills	\$	3,031,579	\$	1,470,063	\$	2,258,273	
ardware manufacturing	\$	3,020,228	\$	285,376	\$	398,852	
esticide and other agricultural chemical manufacturing	\$	3,016,974		1,358,852	\$	2,287,045	
ircraft engine and engine parts manufacturing	\$	2,919,665	\$	706,939	\$	1,035,506	
aper bag and coated and treated paper manufacturing	\$	2,890,972		318,526		529,263	
ood container and pallet manufacturing	\$	2,730,007		510,968		864,833	
anned specialties	\$	2,681,739		436,871		581,881	
/et corn milling	\$	2,532,769		30,166		472,718	
upport activities for oil and gas operations	\$	2,311,056		108,331		1,521,709	
rain farming	\$	2,302,584		27,424		429,756	
rain raining	ې	2,302,304	ب	21,424	ب	+23,730	



Coffee and the annufacturing \$ 2,145,208 5 \$ 90,522 5 \$ 119,322 Anheaver annufacturing \$ 2,045,231 5 \$ 111,522 \$ 118,922 Anheaver annufacturing \$ 2,015,232 5 \$ 124,231 5 \$ 10,922 Contract carriers, breakt, and manorall systems annufacturing \$ 1,368,732 8 \$ 20,864 5 \$ 20,943 Olisond Taming \$ 1,551,747 8 \$ 20,864 5 \$ 320,949 Olisond Taming \$ 1,551,747 8 \$ 1,968,160 5 \$ 886,040 Sand and grovel mining \$ 1,556,812 5 \$ 1,969,460 5 \$ 5,469,039 Small annus, corbanos, and accossories manufacturing \$ 1,566,812 5 \$ 1,969,460 5 \$ 2,469,039 Small annus, corbanos, and accossories manufacturing \$ 1,268,202 5 \$ 6,009 5 \$ 200,009 Millary amound vertices, taxis, and bank component manufacturing \$ 1,268,202 5 \$ 200,009 \$ 1,268,202 5 \$ 200,009 Millary amound vertices, taxis, and bank component manufacturing \$ 1,268,202 5 \$ 200,009 \$ 1,268,202 5 \$ 200,009 Millary amound vertices, taxis, and bank component manufacturing \$ 1,268,202 5 \$ 200,009 \$ 1,268,202 5 \$ 200,009	Industry/Product	Illegit	imate Imports	Wholesale Cost	Retail Cost
Administry manufacturing \$ 20,5230 \$ 814,261 \$ 1,069,781 to non-relative manufacturing \$ 1,069,781 \$ 135,656 \$ 1,069,241 to non-related foreigning \$ 1,069,781 \$ 135,660 \$ 192,252,560 \$ 10,068,061 \$ 1,075,177 \$ 2,086 \$ 322,569 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 2,086 \$ 1,075,177 \$ 1,086 \$ 1,086	Coffee and tea manufacturing	\$	2,142,028	\$ 305,232	\$ 399,718
Overhead cames, holds, and monoral systems manufacturing \$ 1,969,731 \$ 355,495 \$ 504,008 Olisead Farming \$ 1,777,348 \$ 20,864 \$ 120,860,000 Olisead Farming \$ 1,757,347 \$ 5 20,864 \$ 120,800,000 Sand and gravel milling \$ 1,551,160 \$ 5 50,511 \$ 18,90,000 Shad and gravel milling \$ 1,356,812 \$ 1,000,000 Plates packaging material and unfarminated film and sheel manufacturing \$ 1,356,812 \$ 1,000,000 Small arms, ordinarios, and accessorios manufacturing \$ 1,356,812 \$ 1,000,000 Office disputations, related by misses in milling \$ 1,256,320 \$ 1,000,000 Fertilizer manufacturing \$ 1,256,321 \$ 1,000,000 Frobitizer manufacturing \$ 1,255,321 \$ 1,000,000 Frobitizer manufacturing \$ 1,000,120 \$ 1,000,000 Frobitizer manufacturing \$ 1,000,120 \$ 1,000,000 Most processed from carcasses \$ 1,000,120 \$ 1,000,000 Frobitizer manufacturing \$ 1,000,120 \$ 1,000,000 Frobitizer manufacturing \$ 1,000,120 \$ 1,000,000 Frobitizer manufacturing </td <td>Motor home manufacturing</td> <td></td> <td>2,045,321</td> <td>\$ 91,170</td> <td>\$ 118,922</td>	Motor home manufacturing		2,045,321	\$ 91,170	\$ 118,922
Incame and selen forgrams	Adhesive manufacturing		2,015,230	\$ 814,261	\$ 1,208,296
Dissent faming	Overhead cranes, hoists, and monorail systems manufacturing				
Detail pather and allied product manufacturing \$ 1,591.36 \$ 1,566.21 \$ 1,793.40 \$ 1,79					
Sand graver mining	· · · · · · · · · · · · · · · · · · ·			,	
Plastia packaging materials and unlaminated tima and sheet manufacturing \$ 1,586,812 \$ 1,398,005 \$ 5,373,035 \$ 151,035,05 \$ 1,393,050	•				
Snall ams, ordnano, and accessories munufacturing \$ 1,553,870 \$ 5,973,342 Other city, creaming, infractory mineral mining \$ 1,486,372 \$ 5,043 \$ 71,663 Fertillare mining \$ 1,281,322 \$ 55,043 \$ 77,603 Torillar manufacturing \$ 1,281,323 \$ 36,048 \$ 79,006 Torillar manufacturing \$ 1,285,363 \$ 200,308 \$ 1,275,444 Probagnaphic film and chemical manufacturing \$ 1,285,522 \$ 20,003 \$ 5,255,616 Ory peat, mixee, and dough manufacturing \$ 1,015,748 \$ 1,015,748 \$ 5,255,616 Allumina refining and primary aluminum production \$ 1,015,748 \$ 1,015,748 \$ 1,015,748 \$ 1,015,748 Allumina refining and primary aluminum production \$ 1,007,546 \$ 1,015,748 \$	· · · · · · · · · · · · · · · · · · ·				
Other Cally, caramic, refractory minerals mining \$ 1,486,922 \$ 5,90,99 \$ 1979,059 Fertilizer mixing \$ 1,219,131 \$ 5,91,168 \$ 1976,06 Fertilizer mixing \$ 1,219,132 \$ 5,91,168 \$ 1976,06 Tortilla manufacturing \$ 1,256,338 \$ 5,926,09 \$ 987,360 Photographic Illin and chemical manufacturing \$ 1,256,318 \$ 5,826,00 \$ 887,366 Dy postar, mixes, and dough manufacturing \$ 1,105,216 \$ 5,28,000 \$ 852,616 Distillarios \$ 1,007,787 \$ 5,22,900 \$ 852,616 Alumina refining and primary aluminum production \$ 1,007,787 \$ 7,927 \$ 12,027 Meat processed from carcasses \$ 1,007,800 \$ 192,797 \$ 126,628 Symbatic dy sea ligner manufacturing \$ 976,390 \$ 198,768 \$ 270,698 Power botiler and heat exchanger manufacturing \$ 697,288 \$ 99,600 \$ 133,626 Potalar, succia, and sear ferming \$ 697,288 \$ 99,600 \$ 133,626 Potalar, succia, and sear ferming \$ 697,288 \$ 99,600 \$ 133,626 Potalar, succia, and sear ferming \$ 613,711 \$ 613,712 \$ 607,639 Other abenimum rolling, drawing and extructing \$ 613,712					
Millary ammored vehide, lank, and lank component manufacturing	· · · · · · · · · · · · · · · · · · ·			,	
Fertilizar mixing					
Tortlian marufacturing Photographic film and chemical manufacturing Photographic film and primary aluminum production Photographic film and exchanger manufacturing Photographic film and exchanger manufacturing Photographic film and exchanger manufacturing Photographic film and primary aluminum production Photograph	•				
Pobogaphic Iflam and Chemical manufacturing \$ 1,260,813 \$ 18,064 \$ 50,507,12 \$ \$ \$ \$ \$ \$ \$ \$ \$	· · · · · · · · · · · · · · · · · · ·				
Dry patks, mixes, and dough manufacturing \$ 1,258,522 \$ 205,023 \$ 269,712					
Distalleries	· · ·				
Alumina refining and primary aluminum production \$ 1,059,322 \$ 10,1586 \$ 144,700 Neath processed from carcasses \$ 1,017,876 \$ 78,028 \$ 170,286 Neath processed from carcasses \$ 1,007,546 \$ 78,028 \$ 170,286 Next product primary and the exchanger manufacturing \$ 976,390 \$ 189,878 \$ 267,599 Other basic inorganic chemical manufacturing \$ 987,639 \$ 98,788 \$ 268,410 Nonchocolate confectionery manufacturing \$ 987,288 \$ 99,662 \$ 133,826 Potasis, soda, and borate mineral mining \$ 68,728 \$ 99,662 \$ 123,826 Potasis, soda, and borate mineral mining \$ 163,1714 \$ 29,756 \$ 147,983 Nother aluminum offling, drawing and extruding \$ 149,790 \$ 89,240 \$ 119,518 Risworing syrup and concentrate manufacturing \$ 149,790 \$ 89,240 \$ 119,518 Risworing syrup and concentrate manufacturing \$ 149,730 \$ 17,804 \$ 280,000 Copper, nickel, lead, and ran mining \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and concentrate manufacturing \$ 140,523 \$ 17,000 \$ 22,479 Risworing syrup and syrup a					
Meat processed from carcasses \$ 1,017,876 \$ 9,279 \$ 126,628					
Synthetic dye and pigment manufacturing \$ 1,007,546 \$ 1,008.08 \$ 1,072,80 Other basic inorganic chemical manufacturing \$ 88,89.11 \$ 64,418 \$ 276,89.89 Other basic inorganic chemical manufacturing \$ 69,72.68 \$ 99,662 \$ 33,62.66 Potash, sods, and borate mineral mining \$ 63,811 \$ 54,97.6 \$ 412,933 Other aluminum rolling, drawing and extruding \$ 63,811 \$ 54,47 \$ 417,933 Other aluminum rolling, drawing and extruding \$ 457,905 \$ 19,204 \$ 119,518 Flavoring syrup and concentrate manufacturing \$ 457,905 \$ 19,204 \$ 228,000 Copper, rickel, lead, and zine mining \$ 450,523 \$ 450,533 \$ 27,000 \$ 228,000 Copper, rickel, lead, and zine mining \$ 450,523 \$ 450,533 \$ 71,000 \$ 228,000 Copper, rickel, lead, and zine mining \$ 450,523 \$ 450,533 \$ 71,000 \$ 224,000 Commercial logging \$ 450,523 \$ 450,523 \$ 71,000 \$ 27,000 \$ 22,008 \$ 23,035 \$ 27,000 \$ 26,000 \$ 23,335 \$ 20,344 \$ 20,344 \$ 20,344 \$					
Powner boller and heat exchanger manufacturing \$ 987,930 \$ 198,786 \$ 276,989 Chlore hask in congain chemical manufacturing \$ 687,288 \$ 96,662 \$ 133,526 Potash, sock, and borate mineral mining \$ 677,288 \$ 96,662 \$ 133,526 Chlore aluminum rolling, drawing and extuding \$ 631,717 \$ 127,758 \$ 147,783 \$ 127,576 \$ 127,756	•				
Other basic inorganic chemical manufacturing \$ 838,911 \$ 94,642 \$ 288,410 Nonchocolate confectionery manufacturing \$ 637,288 \$ 96,662 \$ 133,520 Potash, soda, and borate mineral mining \$ 634,801 \$ 29,756 \$ 417,983 Other aluminum crilling, crawing and extructing \$ 631,714 \$ 541,795 \$ 89,240 \$ 119,518 Flavoring stying and concentrate manufacturing \$ 461,305 \$ 12,815 \$ 284,158 Flavoring stying and concentrate manufacturing \$ 461,305 \$ 12,815 \$ 284,158 Paperboard mills 4 452,578 \$ 49,833 \$ 71,202 \$ 22,4158 Paperboard mills 4 452,578 \$ 49,833 \$ 71,202 \$ 22,4158 Paperboard mills and refining \$ 382,831 \$ 73,252 \$ 228,4158 Paperboard mills \$ 452,578 \$ 49,833 \$ 71,202 Commercial logging \$ 382,831 \$ 73,252 \$ 228,418 Breweites \$ 323,303 \$ 38,252 \$ 23,831 Breweites \$ 323,303 \$ 29,548 \$ 36,622 Cut stone and stone product manufacturing					
Nonchoclate confectionery manufacturing \$ 697,288 \$ 99,662 \$ 133,626 Potash, sodi, and boate minerial mining \$ 634,810 \$ 29,756 \$ 41,7362 \$ Other atuminum rolling, drawing and extruding \$ 631,714 \$ 180,447 \$ 80,447 \$ Sugar cane mills and refining \$ 497,302 \$ 89,240 \$ 119,518 \$ Flavoring grup and concentrate manufacturing \$ 497,302 \$ 70,864 \$ 228,0280 \$ Copper, nickel, lead, and zinc mining \$ 405,523 \$ 11,281 \$ 2284,158 \$ Pagerboard mills \$ 405,523 \$ 17,002 \$ 224,158 \$ 244	· · · · · · · · · · · · · · · · · · ·				
Potash, soda, and borate mineral mining \$ 634,81 \$ 24,74 \$ 84,74 \$ 8,04 \$ 1					
Other aluminum rolling, drawing and extruding \$ 631,714 \$ 54,478 \$ 19,518 Flavoring syrup and concentrate manufacturing \$ 497,302 \$ 70,864 \$ 22,801 Copper, nickle, lead, and zinc mining \$ 451,258 \$ 28,018 \$ 28,018 Copper, nickle, lead, and zinc mining \$ 451,278 \$ 49,633 \$ 87,120 All other miscellaneous wood product manufacturing \$ 405,223 \$ 17,002 \$ 22,479 All other miscellaneous wood product manufacturing \$ 342,530 \$ 38,252 \$ 62,818 Asphat paving mixture and block manufacturing \$ 323,300 \$ 36,252 \$ 62,818 Broweries \$ 323,300 \$ 209,048 \$ 366,263 Cut stone and stone product manufacturing \$ 323,300 \$ 209,048 \$ 366,263 Cut stone and stone product manufacturing \$ 290,554 \$ 12,633 \$ 16,097 Cut stone and stone product manufacturing \$ 290,554 \$ 13,315 \$ 25,720 Cheese manufacturing \$ 193,654 \$ 33,315 \$ 16,097 Cheese manufacturing \$ 193,654 \$ 33,315 \$ 19,098 Chided missile and space vehic	Potash, soda, and borate mineral mining			29,756	\$ 417,983
Sugar cane mills and refining \$ 457,000 \$ 88,240 \$ 119,518 Elsovoring syrup and concentrate manufacturing \$ 461,345 \$ 12,815 \$ 280,280 Copper, nickel, lead, and zinc mining \$ 461,345 \$ 12,815 \$ 284,158 Paperboard mills \$ 452,578 \$ 49,633 \$ 87,120 All other miscellaneous wood product manufacturing \$ 392,831 \$ 73,525 \$ 124,444 Asphalt paving mixture and block manufacturing \$ 329,990 \$ 55,615 \$ 73,371 Dreweries \$ 323,999 \$ 55,615 \$ 73,371 Tobacco product manufacturing \$ 321,208 \$ 48,887 \$ 117,995 Seat adot sone product manufacturing \$ 321,203 \$ 48,887 \$ 117,995 Seat food product preparation and packaging \$ 221,202 \$ 18,937 \$ 116,097 Seat food product preparation and packaging \$ 193,564 \$ 18,420 \$ 10,097 Seat food product preparation and packaging \$ 193,564 \$ 18,420 \$ 10,098 Seat food product preparation and packaging \$ 193,564 \$ 8,420 \$ 10,099 Seat food product preparation and packa	Other aluminum rolling, drawing and extruding		631,714	\$ 54,147	\$ 80,447
Copper, nickel, lead, and zinc mining \$ 461,345 \$ 12,815 \$ 28,188 Paperboard mills \$ 452,578 \$ 49,633 \$ 87,120 All other miscellaneous wood product manufacturing \$ 392,831 \$ 73,525 \$ 124,444 Asphalt pasing mixture and block manufacturing \$ 392,831 \$ 73,525 \$ 24,444 Asphalt pasing mixture and block manufacturing \$ 329,990 \$ 55,615 \$ 73,371 Tobacco product manufacturing \$ 329,990 \$ 55,615 \$ 33,311 Tobacco product manufacturing \$ 321,423 \$ 145,887 \$ 110,995 Seafood product preparation and packaging \$ 231,423 \$ 12,883 \$ 12,907 Cheese manufacturing \$ 123,453 \$ 12,946 \$ 17,935 \$ 22,847 Fabricated pipe and pipe fitting manufacturing \$ 120,551 \$ 129,343 \$	Sugar cane mills and refining		547,905	\$ 89,240	\$ 119,518
Paperboard mills	Flavoring syrup and concentrate manufacturing	\$	497,302	\$ 70,864	\$ 92,800
All other miscellaneous wood product manufacturing \$ 40,523 \$ 17,002 \$ 124,444 Asphalt paving mixture and block manufacturing \$ 342,530 \$ 382,520 \$ 62,815 Breweries \$ 329,990 \$ 55,615 \$ 73,317 Tobacco product manufacturing \$ 323,305 \$ 209,248 \$ 366,283 Cut stone and stone product manufacturing \$ 321,008 \$ 15,863 \$ 110,995 Coat building \$ 321,008 \$ 15,863 \$ 110,995 Coat building \$ 221,423 \$ 18,937 \$ 16,097 Cheese manufacturing \$ 221,423 \$ 18,937 \$ 125,720 Cheese manufacturing \$ 197,345 \$ 18,937 \$ 25,720 Cheese manufacturing \$ 197,345 \$ 8,240 \$ 119,045 Cut stone and stone product preparation and packaging \$ 193,654 \$ 8,420 \$ 119,045 Cut demissile and space vehicle manufacturing \$ 193,654 \$ 8,420 \$ 119,045 Cut demissile and space vehicle manufacturing \$ 193,654 \$ 8,420 \$ 119,045 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 166,202 \$ 7,824 \$ 10,990 Cut trailer and camper manufacturing \$ 105,622 \$ 13,318 \$ 77,465 Cut trailer manufacturing \$ 105,205 \$ 10,991 \$ 14,375 Cut trailer manufacturing \$ 105,205 \$ 10,991 \$ 14,375 Cut trailer manufacturing \$ 105,205 \$ 1,091 \$ 14,375 Cut trailer manufacturing \$ 105,205 \$ 1,091 \$ 1,437 Cut trailer manufacturing \$ 105,205 \$ 1,091 \$ 1,437 Cut trailer manufacturing \$ 10,991 \$ 7,795 Cut delter renching and farming, including feedlots and dual-purpose ranching and farming \$ 94,97 \$ 3,747 \$ 1,2437 Cut mixed trailer and camping farming \$ 10,991 \$ 1,375 \$ 1,257 Cut mixed trailer and camping farming \$ 10,991 \$ 1,375 \$ 1,257 Cut mixed trailer and camping	Copper, nickel, lead, and zinc mining	\$	461,345	\$ 12,815	\$ 284,158
Commercial logging \$ 39,28,31 \$ 73,525 \$ 124,444 Asphalt paving mixture and block manufacturing \$ 342,50 \$ 38,252 \$ 62,819 Breweifes \$ 329,990 \$ 55,615 \$ 73,371 Tobacco product manufacturing \$ 323,305 \$ 20,924 \$ 362,623 Cut stone and stone product manufacturing \$ 20,934 \$ 45,887 \$ 116,097 Seafood product preparation and packaging \$ 231,423 \$ 118,337 \$ 25,220 Cheese manufacturing \$ 197,345 \$ 18,237 \$ 25,220 Cheese manufacturing \$ 197,345 \$ 18,420 \$ 119,045 Calided missile and space vehicle manufacturing \$ 197,345 \$ 18,424 \$ 110,729 Industrial gas manufacturing \$ 165,205 \$ 7,824 \$ 100,729 Inval trailer manufacturing \$ <td>Paperboard mills</td> <td></td> <td>452,578</td> <td>\$ 49,633</td> <td>\$ 87,120</td>	Paperboard mills		452,578	\$ 49,633	\$ 87,120
Asphalt paving mixture and block manufacturing \$ 34,250 \$ 38,252 \$ 62,819 Breweries \$ 329,305 \$ 55,615 \$ 73,371 Tobacco product manufacturing \$ 323,305 \$ 209,248 \$ 366,636 Cut stone and stone product manufacturing \$ 321,208 \$ 116,097 \$ 116,097 \$ 116,097 \$ 116,097 \$ 116,097 \$ 116,097 \$ 116,097 \$ 126,006 \$ 116,097 \$ 126,006 \$ 117,995 \$ 117,995 \$ 127,20 \$ 127,20 \$ 117,995 \$ 127,20 \$ 127,20 \$ 119,734 \$ 127,20 \$ 119,734 \$ 110,097 \$ 110,097 \$ 110,702 \$ 110,097 \$ 110,097 \$ 110,097 \$ 110,097 \$ 110,097 \$ 110,097 \$ 110,097 \$	All other miscellaneous wood product manufacturing	\$	405,523	\$ 17,002	\$ 22,479
Breweries \$ 329,90 \$ 55,615 \$ 73,371 Tobacco product manufacturing \$ 323,305 \$ 209,248 \$ 366,626 Cut stone and stone product manufacturing \$ 321,208 \$ 45,887 \$ 117,995 Boat building \$ 290,548 \$ 112,633 \$ 116,097 Seafood product preparation and packaging \$ 291,423 \$ 18,337 \$ 52,720 Cheese manufacturing \$ 193,654 \$ 37,315 \$ 52,847 Fabricated pipe and pipe fitting manufacturing \$ 193,654 \$ 37,315 \$ 152,847 Fabricated pipe and pipe fitting manufacturing \$ 193,654 \$ 37,249 \$ 10,722 Industrial gas manufacturing \$ 193,654 \$ 32,616 \$ 32,616 \$ 32,616 \$ 32,616 \$ 32,616 \$ 32,616 \$ 32,618 \$ 32,616 \$ </td <td>Commercial logging</td> <td></td> <td>392,831</td> <td>\$ 73,525</td> <td>\$ 124,444</td>	Commercial logging		392,831	\$ 73,525	\$ 124,444
Tobacco product manufacturing \$ 333,305 \$ 209,248 \$ 316,278 Cut stone and stone product manufacturing \$ 321,208 \$ 45,887 \$ 117,995 Seaf tool product preparation and packaging \$ 293,554 \$ 18,937 \$ 25,720 Cheese manufacturing \$ 29,908 \$ 373,155 \$ 25,240 Febricated pipe and pipe fitting manufacturing \$ 197,345 \$ 78,294 \$ 119,045 Guided missile and space vehicle manufacturing \$ 192,887 \$ 149,406 \$ 10,729 Industrial gas manufacturing \$ 192,887 \$ 149,406 \$ 10,729 Industrial gas manufacturing \$ 166,202 \$ 78,224 \$ 109,098 Travel trailer and camper manufacturing \$ 166,202 \$ 33,338 \$ 77,465 Other chemical and fertilizer mineral mining and facturing \$ 106,502 \$ 37,465 Other chemi	Asphalt paving mixture and block manufacturing		342,530	\$ 38,252	\$ 62,819
Cut sone and stone product manufacturing	Breweries		329,990	\$ 55,615	\$ 73,371
Boat building \$ 290,554 \$ 12,633 \$ 126,727 Cheese manufacturing \$ 231,423 \$ 18,937 \$ 52,720 Cheese manufacturing \$ 197,345 \$ 78,272 \$ 119,045 Guided missile and space vehicle manufacturing \$ 197,345 \$ 18,209 \$ 10,729 Industrial gas manufacturing \$ 193,564 \$ 14,946 \$ 10,729 Industrial gas manufacturing \$ 166,920 \$ 7,824 \$ 10,090 Cher chemical and fertilizer mineral mining \$ 162,651 \$ 39,338 \$ 7,766 Other chemical and camper manufacturing \$ 166,920 \$ 133,138 \$ 7,766 Other chemical and fertilizer mineral mining \$ 162,651 \$ 39,369 \$ 7,665 Other chemical and fertilizer mineral mining \$ 162,651 \$ 6,703 \$ 9,715 Other chemical manufacturing <td>Tobacco product manufacturing</td> <td></td> <td>323,305</td> <td>\$ 209,248</td> <td>\$ 366,263</td>	Tobacco product manufacturing		323,305	\$ 209,248	\$ 366,263
Seafood product preparation and packaging \$ 231,423 \$ 18,937 \$ 25,720 Cheese manufacturing \$ 197,345 \$ 78,294 \$ 119,045 Fabricated pipe and pipe filting manufacturing \$ 197,345 \$ 78,294 \$ 119,045 Guided missile and space vehicle manufacturing \$ 193,654 \$ 8,420 \$ 10,729 Industrial gas manufacturing \$ 166,697 \$ 7,824 \$ 109,908 Travel trailer and camper manufacturing \$ 166,697 \$ 33,333 \$ 57,887 Mattress manufacturing \$ 162,651 \$ 39,333 \$ 57,887 Mattress manufacturing \$ 162,651 \$ 33,333 \$ 57,887 Mattress manufacturing \$ 162,651 \$ 33,333 \$ 57,887 Mattress manufacturing \$ 162,651 \$ 33,333 \$ 57,887 Mattress manufacturing \$ 162,651 \$ 6,703 \$ 94,151 Truck trailer and camper manufacturing \$ 116,169 \$ 17,668 \$ 6,219 Upholstered household furniture manufacturing \$ 105,676 \$ 10,091 \$ 14,339 Sheet metal work manufacturing \$ 99,369 \$ 7,666 \$ 16	Cut stone and stone product manufacturing			45,887	
Cheese manufacturing \$ 229,086 \$ 37,315 \$ 52,847 Fabricated pipe and pipe fitting manufacturing \$ 197,365 \$ 8,420 \$ 119,045 Ciulded missile and space vehicle manufacturing \$ 192,987 \$ 14,946 \$ 32,616 Other chemical and fertilizer mineral mining \$ 166,920 \$ 7,824 \$ 109,008 Mattress manufacturing \$ 166,920 \$ 39,383 \$ 75,687 Mattress manufacturing \$ 162,201 \$ 33,333 \$ 77,665 Other nonmetallic minerals \$ 162,202 \$ 33,333 \$ 77,665 Other nonmetallic minerals \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 116,169 \$ 17,665 6,574 Upholstered household furniture manufacturing \$ 105,276 \$ 10,091 \$ 14,789 All other petroleum anufacturing	Boat building				16,097
Pabricated pipe and pipe fitting manufacturing					
Guided missile and space vehicle manufacturing \$ 193,654 \$ 14,446 \$ 32,616 Chler chemical and fertilizer mineral mining \$ 166,920 \$ 7,245 \$ 109,908 Travel trailer and camper manufacturing \$ 166,252 \$ 39,383 \$ 57,687 Mattress manufacturing \$ 156,220 \$ 33,138 \$ 77,465 Chther nometallic minerals \$ 156,220 \$ 33,138 \$ 77,465 Chther nometallic minerals \$ 116,169 \$ 6,703 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 106,961 \$ 4,768 \$ 6,703 Sheet metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All Other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 Beef cattler ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,691 \$ 20,681 \$ 20,681 \$ 20,881 Coal mining \$ 90,641 \$ 20,681 \$ 20,881 \$ 20,881 Coal mining \$ 90,641 \$ 20,681 \$ 20,881 \$ 20,881 Chocolate and confectionery manufacturing from cacao beans \$ 90,641 \$ 20,881 \$ 9,947 Chocolate and confectionery manufacturing from cacao beans \$ 33,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Chther concrete product manufacturing \$ 23,786 \$ 2,647 \$ 5,555 Chther concrete product manufacturing \$ 23,786 \$ 2,647 \$ 5,555 Chler concrete product manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 3,763 \$ 4,348 \$ 7,755 Cotton farming \$ 2,551 2,555 5,555 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661 3,661	•				
Industrial gas manufacturing \$ 192,987 \$ 14,946 \$ 32,616 Other chemical and fertilizer mineral mining \$ 166,920 \$ 7,824 \$ 109,008 Travel trailer and camper manufacturing \$ 162,651 \$ 39,383 \$ 57,687 Mattress manufacturing \$ 156,220 \$ 33,138 \$ 77,465 Other normetallic minerals \$ 142,989 \$ 6,703 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 4,768 \$ 6,219 Upholstered household furniture manufacturing \$ 106,961 \$ 4,768 \$ 6,219 Where the metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 12,379 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 90,641 \$ 20,681 28,343					
Other chemical and fertilizer mineral mining \$ 166,920 \$ 7,824 \$ 109,088 Travel trailer and camper manufacturing \$ 162,651 \$ 39,383 \$ 57,687 Mattress manufacturing \$ 156,220 \$ 33,318 \$ 77,465 Other nonmetallic minerals \$ 142,989 \$ 6,703 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 106,961 \$ 1,768 \$ 6,719 Sheet metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 12,437 Coal mining \$ 99,4197 \$ 3,747 \$ 12,437 Steel wire drawing \$ 90,4197 \$ 3,746 \$ 12,432 Steel wire drawing \$					
Travel trailer and camper manufacturing \$ 162,651 \$ 39,383 \$ 77,685 Mattress manufacturing \$ 156,220 \$ 33,383 \$ 77,465 Other nonmetallic minerals \$ 142,989 \$ 6,073 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,219 Upholstered household furniture manufacturing \$ 105,276 \$ 100,911 \$ 4,768 \$ 6,219 Sheet metal work manufacturing \$ 105,276 \$ 100,911 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,641 \$ 20,681 \$ 22,834 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 90,641 \$ 20,681 \$ 29,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 9,927 Tobacco farming \$ 33,466 \$ 2,441 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing					
Mattress manufacturing \$ 156,220 \$ 33,138 \$ 77,465 Other nonmetallic minerals \$ 142,989 \$ 6,703 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,369 \$ 7,696 \$ 12,437 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,4197 \$ 3,747 \$ 12,437 Cola liming \$ 99,4197 \$ 3,747 \$ 12,437 Steel wire drawing \$ 99,249 \$ 99,249 \$ 12,682 \$ 9,227 Chocolate and confectionery manufacturing from cacao beans \$ 33,406	· · · · · · · · · · · · · · · · · · ·				
Other nonmetallic minerals \$ 142,989 \$ 6,703 \$ 94,151 Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 106,961 \$ 4,768 \$ 6,219 All other petroleum and coal products manufacturing \$ 105,276 \$ 10,001 \$ 14,379 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,369 \$ 7,696 \$ 12,437 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Coal mining \$ 72,678 \$ 60,672 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Frozen cak					
Truck trailer manufacturing \$ 116,169 \$ 5,178 \$ 6,754 Upholstered household furniture manufacturing \$ 106,961 \$ 4,768 \$ 6,219 Sheet metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,784 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 99,369 \$ 7,696 \$ 12,437 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 90,641 \$ 20,681 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 9,927 Chocolate and confectionery manufacturing \$ 33,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 21,852 \$ 2,627 \$ 3,467 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·				
Upholstered household furniture manufacturing \$ 106,961 \$ 4,768 \$ 6,219 Sheet metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 94,197 \$ 3,747 \$ 12,437 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 90,641 \$ 20,681 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 21,111 \$ 3,046 \$ 7,755					
Sheet metal work manufacturing \$ 105,276 \$ 10,091 \$ 14,379 All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 94,197 \$ 3,747 \$ 12,437 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 72,678 \$ 6,967 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 14,111 \$ 3,016 \$ 7,755	•				
All other petroleum and coal products manufacturing \$ 99,369 \$ 7,696 \$ 16,794 \$ Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 94,197 \$ 3,747 \$ 12,437 \$ Coal mining \$ 90,641 \$ 20,681 \$ 28,542 \$ Steel wire drawing \$ 72,678 \$ 6,967 \$ 9,927 \$ Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 \$ 10,56	•				
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming \$ 94,197 \$ 3,747 \$ 12,437 Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 72,678 \$ 6,967 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 3,763 \$ 681 \$ 1,048 Wineries \$ 3,763 \$ 415 \$ 83 Poultry processing \$ 2,695 \$ 454 \$ 599 S	· · · · · · · · · · · · · · · · · · ·				
Coal mining \$ 90,641 \$ 20,681 \$ 28,542 Steel wire drawing \$ 72,678 \$ 6,967 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 3,763 \$ <td></td> <td></td> <td></td> <td></td> <td>,</td>					,
Steel wire drawing \$ 72,678 \$ 6,967 \$ 9,927 Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,555 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,255 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,211 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 3,763					
Chocolate and confectionery manufacturing from cacao beans \$ 60,359 \$ 8,627 \$ 11,567 Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 2,627 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,016 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,211 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 3,763 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 454 \$ 89 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	· ·				
Tobacco farming \$ 39,406 \$ 4,341 \$ 9,247 Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,110 Petroleum lubricating oil and grease manufacturing \$ 10,74 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	· · · · · · · · · · · · · · · · · · ·				
Petrochemical manufacturing \$ 32,866 \$ 2,545 \$ 5,555 Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,948 Wineries \$ 3,763 \$ 415 \$ 883 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 45 5 99 Sugarcane and sugar beet farming \$ 1,484 \$ 339 <td< td=""><td>·</td><td></td><td></td><td></td><td></td></td<>	·				
Other concrete product manufacturing \$ 23,786 \$ 3,244 \$ 8,256 Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 3,763 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 45 5 99 Sugarcane and sugar beet farming \$ 1,484 \$ 339 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$	•				
Frozen cakes and other pastries manufacturing \$ 22,869 \$ 2,627 \$ 3,467 Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 3339 \$ 467	•				
Abrasive product manufacturing \$ 21,111 \$ 3,016 \$ 7,755 Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,948 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	·	\$			
Fluid milk manufacturing \$ 14,618 \$ 1,679 \$ 2,216 Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 1,484 \$ 339 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467					
Petroleum lubricating oil and grease manufacturing \$ 10,704 \$ 829 \$ 1,809 Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467					
Other metal ore mining \$ 5,902 \$ 681 \$ 1,048 Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	· · · · · · · · · · · · · · · · · · ·				
Wineries \$ 4,348 \$ 733 \$ 967 Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467					
Cotton farming \$ 3,763 \$ 415 \$ 883 Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	•				
Poultry processing \$ 2,695 \$ 454 \$ 599 Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467					
Sugarcane and sugar beet farming \$ 2,561 \$ 282 \$ 601 Oil and gas extraction \$ 1,484 \$ 339 \$ 467	•				
Oil and gas extraction \$ 1,484 \$ 339 \$ 467	• • •				
	· · · · · · · · · · · · · · · · · · ·				

