

**U.S. Manufacturing Exports and Imports by SIC or NAICS Category and  
Partner Country, 1972 to 2005\***

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1. Introduction

This note describes the method used to construct the Stata datasets `xm_sic_72_105_20100504.dta` and `xm_naics_72_105_20100504.dta`, which track U.S. manufacturing exports, imports and shipments at the country by four-digit SIC (1987 revision) or six-digit NAICS industries, respectively.

In addition to tracking U.S. trade, these datasets contain information on U.S. shipments and U.S. trading partners' per capita GDP. These added data are useful for constructing measures of import penetration by individual countries or by classes of countries, e.g., high- versus low-wage countries as introduced in Bernard, Jensen and Schott (2006).

2. 1972 to 1988 Trade Data

For the period 1972 to 1988 I start with the U.S. trade data assembled by Feenstra (1996). These data are country by year by four-digit, 1972-revision SIC industry. I use the concordance between 1972 and 1987 versions of the SIC provided by Bartelsman, Becker and Gray (2000) to convert the 1972 SIC categories in Feenstra (1996, 1997) to their 1987-version counterparts. A comparison of the value in the updated database versus Feenstra (1996, 1997) is reported in Table 1.

Table 1: Trade Totals by Dataset

											New, 1972-2005 Database (Manufacturing Only)		
customs imports		cif imports			exports		exports + re-exports			customs			
database	census	erp	database	abowd	database	census	database	erp	diff	value	cif value	exports	
1972	55,278	55,282	55,600	na	50,363	48,876	48,876	49,676	49,900	224	44,990	0	37,705
1973	68,659	68,656	69,500	na	60,446	70,227	70,223	71,318	71,900	582	54,899	0	50,582
1974	100,126	100,126	103,300	77,808	80,197	97,143	97,144	98,506	99,400	894	73,147	77,767	70,939
1975	96,477	96,515	99,300	70,055	72,680	106,101	106,157	107,590	108,900	1,310	65,994	70,007	77,602
1976	121,043	121,121	124,600	84,872	88,885	113,322	113,323	114,996	116,800	1,804	80,196	84,807	85,543
1977	146,958	147,291	151,500	100,808	106,866	117,920	117,963	120,127	123,200	3,074	95,080	100,598	89,923
1978	172,912	172,952	176,100	126,493	133,472	141,121	141,154	143,658	145,800	2,142	120,046	126,408	107,498
1979	205,850	205,923	210,300	143,727	153,021	178,591	178,578	181,815	186,400	4,585	136,452	143,628	138,429
1980	239,942	239,944	245,300	158,572	169,934	216,592	216,592	220,705	225,600	4,895	151,055	158,435	166,220
1981	258,962	259,012	261,000	179,425	192,495	228,961	228,961	233,739	238,700	4,961	170,997	179,277	177,828
1982	242,339	242,340	244,000	178,290	197,028	207,158	207,158	212,275	216,400	4,126	170,278	178,158	160,243
1983	256,675	256,680	258,000	202,787	223,491	195,969	195,969	200,538	205,600	5,062	193,759	202,639	152,293
1984	322,976	322,990	330,700	269,348	300,398	212,057	212,057	217,888	224,000	6,112	256,820	269,161	163,991
1985	343,550	343,553	336,500	293,571	339,512	206,925	206,925	213,146	218,800	5,654	279,893	293,371	164,139
1986	368,653	368,657	365,400	328,038	na	206,376	206,376	217,304	227,200	9,896	313,910	327,805	168,924
1987	402,066	402,066	406,200	355,965	na	241,399	243,859	250,406	254,100	3,694	340,935	355,752	194,031
1988	437,130	437,140	441,000	392,823	na	308,014	310,346	320,385	322,400	2,015	377,691	392,532	245,980

  

											New, 1972-2005 Database (Manufacturing Only)		
general imports	consumption imports	erp imports	manuf imports	exports	re-exports	total exports	erp exports	manuf exports	exports	manuf exports	customs		
imports	imports	erp imports	imports	exports	exports	exports	exports	exports	exports	exports	value	cif value	exports
1989	473,397	468,012	473,200	396,108	349,421	14,333	363,754	363,800	279,381	397,349	412,764	283,151	
1990	495,260	490,553	495,300	406,068	374,537	18,439	392,976	393,600	320,236	406,161	422,479	325,520	
1991	487,129	482,083	488,500	404,828	400,842	21,011	421,854	421,700	348,759	406,443	422,242	350,293	
1992	532,352	525,091	532,700	443,951	424,971	22,500	447,471	448,200	371,785	446,875	463,087	379,664	
1993	580,469	574,863	580,700	490,289	439,295	25,563	464,858	465,100	388,987	491,115	508,771	398,907	
1994	663,830	657,885	663,300	567,052	481,887	30,528	512,416	512,600	428,388	571,576	591,787	442,186	
1995	743,505	739,660	743,500	639,728	546,465	36,566	583,031	584,700	481,435	641,809	663,683	497,592	
1996	791,315	790,470	795,300	679,712	582,137	40,690	622,827	625,100	512,975	675,556	696,251	530,153	
1997	869,874	862,426	869,700	749,333	643,222	44,376	687,598	689,200	576,000	743,358	765,244	592,720	
1998	913,885	907,647	911,900	802,594	634,705	45,769	680,474	682,100	573,528	798,806	822,879	590,876	
1999	1,024,766	1,017,435	1,024,600	894,684	642,189	50,632	692,821	695,800	582,698	885,946	914,508	605,030	
2000	1,216,888	1,205,339	1,218,000	1,040,464	712,287	68,131	780,419	781,900	646,637	1,024,124	1,057,472	681,678	
2001	1,141,959	1,132,635	na	972,822	666,021	65,005	731,026	na	599,140	960,155	990,679	631,760	
2002										984,438	1,016,564	589,887	
2003										1,047,600	1,084,069	613,258	
2004										1,213,532	1,257,663	691,102	
2005										1,346,953	1,396,164	765,906	

Notes: Unshaded columns in top panel are from Feenstra (1996). Unshaded totals in bottom panel are from Feenstra et al (2003). Shaded columns reflect the updated database discussed in this note. ERP refers to the Economic Report of the President.

I have not created a NAICS version of the 1972 to 1988 trade data.

### 3. 1989 to 2005 Trade Data

For the period 1989 to 2005, I start with the ten-digit HS by country by year trade data from the U.S. Census Bureau (and available on my website). These data were purchased from the U.S. Census Bureau and converted into Stata format; funding from Yale Social Sciences Library is acknowledged gratefully. I concord the HS categories to SIC and NAICS using the concordances provided by Pierce and Schott (2009). A comparison of the value in the updated database versus Feenstra et al. (2001) is reported in Table 1

### 4. Shipments Data

To the trade data I add 1972 to 2005 shipments data using data contained in the NBER-CES Manufacturing Productivity Database assigned by Bartelsman, Becker and Gray (2000).

### 5. Record Layout

Each file contains the following fields.

- Four-digit year
- Four-digit 1987-version SIC or six-digit NAICS: manufacturing categories only; some categories may not be present depending on concordance issues.
- Six-digit United Nations country code (see Feenstra et al. 2001): may be missing
- Four-digit U.S. country code (see Feenstra et al. 2001): may be missing
- Three character World Bank Country Code: always present
- Import values for general imports: customs value and CIF value, in millions of USD; CIF data not available for 1972 and 1973
- Export value: in millions of USD
- Dutiable import value: in millions of USD; may be missing
- Duties charged: in millions of USD; may be missing
- Country income values: per capita GDP and PPP-adjusted per capita GDP for each country as well as for United States from the World Bank World Development Indicators Database; may be missing
- Value of shipments: millions of USD; note that this value is the same total for all countries

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