

Pharmaceutical Preparations, Except Biologicals: 2003

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SUMMARY OF FINDINGS

The total value of shipments for pharmaceutical preparations in the United States totaled \$103.8 billion in 2003, a 3-percent increase from \$100.7 billion in 2002. The leading product category was pharmaceutical preparations that act on the central nervous system and sense organs in humans, which increased 1 percent to \$24.7 billion in 2003, from \$24.3 billion in 2002.

The value of shipments for individual product categories in 2003 were: pharmaceutical preparations affecting neoplasm, endocrine system, and metabolic diseases for human use

totaled \$20.1 billion, a 15-percent increase from \$17.5 billion in 2002; pharmaceutical preparations acting on the central nervous system and sense organ for human use totaled \$24.7 billion, a 1-percent increase from \$24.3 billion in 2002; pharmaceutical preparations acting on the cardiovascular system for human use totaled \$9.6 billion, a 7-percent decrease from \$10.3 billion in 2002; pharmaceutical preparations acting on the respiratory system for human use totaled \$11.2 billion, a 10-percent decrease from \$12.5 billion in 2002; pharmaceutical preparations acting on the digestive or genito-urinary system for human use totaled \$14.1 billion, a 6-percent increase from \$13.4 billion in 2002; pharmaceutical preparations acting on the skin for human use totaled \$2.9 billion, which is a 3-percent decrease from \$2.8 billion in 2002; vitamin, nutrient, and hematinic preparations for human use totaled \$6.9 billion, a 14-percent increase from \$6.0 billion in 2002; pharmaceutical preparations affecting parasitic and infective diseases for human use totaled \$11.5 billion, a 2-percent increase from \$11.3 billion in 2002; and pharmaceutical preparations for veterinary use totaled \$2.7 billion, a 7-percent increase from \$2.5 billion in 2002.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Luis A. Blanco, 301-763-4643.

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U S C E N S U S B U R E A U

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U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

Table 1. Value of Product Class Shipments of Pharmaceutical Preparations, Except Biologicals: 1999 to 2003
 [In thousands of dollars]

Product code	Product description	2003	2002	2001	2000	1999
	Pharmaceutical preparations.....	103,757,791	100,741,449	90,181,771	79,261,643	70,417,329
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	20,076,809	17,499,148	14,818,930	9,783,996	7,987,700
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,705,318	24,344,732	18,974,834	18,508,356	14,881,433
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	9,643,704	10,338,754	9,798,444	8,992,634	9,601,073
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	11,201,914	12,504,287	11,691,747	10,179,464	8,154,675
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	14,111,578	13,373,247	12,615,660	10,046,469	8,741,429
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,942,926	2,844,436	2,708,046	2,941,278	2,797,712
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	6,877,714	6,028,849	5,883,934	5,676,429	6,160,693
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,544,450	11,336,918	11,192,713	11,036,891	9,778,226
325412T100	Pharmaceutical preparations for veterinary use.....	2,653,378	2,471,078	2,497,463	2,096,126	2,314,388

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[In thousands of dollars]

Product code	Product description	2003				2002			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
325412	Pharmaceutical preparations (except biologicals).....	103,757,791	88,163,358	13,798,115	1,796,318	100,741,449	86,464,213	12,873,001	1,404,235
3254121	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	20,076,809	19,863,706	31,726	181,377	17,499,148	17,359,313	28,200	111,635
	Hormones and synthetic substitutes:								
	Corticoids:								
3254121111	Systemic.....	443,400	(D)	(D)	(D)	320,546	(D)	(D)	(D)
3254121116	Local and topical, including anti-infective combinations.....	460,050	430,675	29,375	-	391,182	365,350	25,832	-
3254121121	Androgens.....	88,891	88,891	-	(D)	(D)	(D)	-	(D)
3254121126	Estrogens.....	495,826	495,826	-	-	308,936	308,936	-	-
3254121131	Insulin and antidiabetic agents.....	2,126,776	2,126,776	-	(D)	2,657,447	2,657,447	-	(D)
3254121136	ACTH (corticotropin).....	(D)	(D)	-	-	(D)	(D)	-	-
3254121141	Oral contraceptive preparations.....	a/ 579,826	a/ 579,826	-	-	a/ 385,380	a/ 385,380	-	-
3254121146	Progestogens (excluding premenstrual tension preparations, see code 325412D085).....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254121151	Sex hormone combinations, (except progestogen combinations).....	(D)	(D)	-	-	(D)	(D)	-	-
3254121156	Thyroid and antithyroid preparations, including iodides.....	936,908	936,908	-	(D)	(D)	(D)	-	(D)
3254121161	Anabolic agents.....	(D)	(D)	-	-	(D)	(D)	-	-
3254121166	Other hormone preparations.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Antineoplastic agents:								
3254121171	Radioactive isotopes for internal use.....	(D)	(D)	-	-	(D)	(D)	-	-
3254121176	Specific antineoplastic agents.....	3,220,381	3,220,381	-	(D)	2,454,106	2,454,106	-	(D)
3254121181	Other pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic, for human use.....	10,577,206	(D)	(D)	145,483	8,861,836	(D)	(D)	70,772
3254124	Pharmaceutical preparations acting on the central nervous systems and the sense organs, for human use.....	24,705,318	22,204,105	2,016,211	485,002	24,344,732	21,631,934	2,318,677	394,121
3254124111	Parasympathomimetic cholinergic drugs.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124114	Skeletal muscle relaxants.....	299,754	299,754	-	(D)	247,306	247,306	-	(D)
	Internal analgesics and antipyretics:								
	Narcotic:								
3254124117	Opium and derivatives.....	586,287	586,287	-	-	683,613	683,613	-	-
3254124121	Synthetic narcotics.....	1,854,195	1,854,195	-	(D)	1,531,172	1,531,172	-	(D)
	Nonnarcotic:								
	Salicylates:								
3254124124	Aspirin (acetylsalicylic acid).....	272,139	(D)	(D)	(D)	251,697	(D)	(D)	(D)
3254124127	Other salicylates, such as sodium salicylate 2/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3254124131	Aspirin combinations.....	139,424	13,968	125,456	-	177,852	45,518	132,334	-
3254124134	Acetaminophen and combinations.....	645,735	82,801	562,934	26,273	499,575	102,105	397,470	r/ 21,344
3254124137	Antiarthritics (non-hormonal).....	2,726,151	2,536,629	189,522	81,672	3,003,333	2,695,455	307,878	71,884
3254124141	Other internal analgesics and antipyretics, including effervescent types and suppositories 2/.....	250,458	(D)	(D)	(D)	228,045	(D)	(D)	(D)
3254124144	Anticonvulsants (except phenobarbital).....	1,255,507	1,255,507	-	6,693	1,000,363	1,000,363	-	40,627
	Psychotherapeutic agents:								
3254124147	Antidepressants.....	5,114,709	5,114,709	-	(D)	5,050,987	5,050,987	-	(D)
	Tranquilizers:								
3254124151	Phenothiazine derivatives.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124154	Other tranquilizers.....	39,319	39,319	-	-	64,933	64,933	-	-
3254124157	Other psychotherapeutic agents.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
	Central nervous system stimulants (respiratory and cerebral stimulants, including sympathomimetic agents employed mainly as CNS stimulants); excluding nondrug dietaries for weight control):								
3254124161	Amphetamines.....	(D)	(D)	-	(D)	(D)	(D)	-	-
3254124164	Anorexiant (except amphetamines).....	69,566	(D)	(D)	(D)	67,867	(D)	(D)	(D)
3254124167	Other CNS stimulants.....	725,862	(D)	(D)	8,919	634,143	(D)	(D)	(D)
	Sedatives and hypnotics:								
	Prescription:								
3254124171	Barbiturates.....	40,026	40,026	(X)	(D)	36,190	36,190	(X)	(D)
3254124174	Nonbarbiturates.....	222,433	222,433	(X)	13,943	159,550	159,550	(X)	-

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[In thousands of dollars]

Product code	Product description	2003				2002			
		Total	Prescription legend	Nonprescription	Bulk shipments 1/	Total	Prescription legend	Nonprescription	Bulk shipments 1/
	Nonprescription:								
3254124177	Sleep inducers.....	98,283	(X)	98,283	-	82,461	(X)	82,461	-
3254124181	Calming agents.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
	Anesthetics (except urinary tract anesthetics and skin preparations used as antipruritics):								
3254124184	Local and topical.....	263,548	(D)	(D)	(D)	238,365	(D)	(D)	(D)
3254124187	General.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Eye and ear preparations, excluding anti-infectives, corticoids and antibacterials and antiseptics:								
3254124191	Mydriatics and miotics.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124193	Contact lens solutions.....	564,860	-	564,860	(D)	589,105	-	589,105	(D)
3254124195	Other eye and ear preparations.....	1,091,179	(D)	(D)	(D)	889,042	(D)	(D)	-
3254124197	Other pharmaceutical preparations acting on the central nervous system and the sense organs for human use.....	3,245,381	3,033,024	212,357	210,164	3,870,795	3,621,360	249,435	192,234
32541271	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	9,643,704	(D)	(D)	143,796	10,338,754	(D)	(D)	155,174
3254127111	Anticoagulants.....	894,434	(D)	(D)	(D)	857,625	(D)	(D)	(D)
3254127116	Hemostatics.....	(D)	(D)	-	-	(D)	(D)	-	-
3254127121	Digitalis preparations.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
	Hypotensives:								
3254127126	Rauwolfia-alkaloid preparations.....	9,258	9,258	-	-	r/ 3,054	r/ 3,054	-	-
3254127131	Beta receptor blocking agents.....	211,836	211,836	-	-	160,782	160,782	-	-
3254127136	Other hypotensives.....	455,947	455,947	-	(D)	430,141	430,141	-	(D)
	Vasodilators:								
3254127141	Coronary.....	1,097,691	1,097,691	-	(D)	774,877	774,877	-	(D)
3254127146	Peripheral.....	(D)	(D)	-	-	(D)	(D)	-	-
3254127151	Antiarrhythmics, such as propanolol and quinidine.....	108,103	108,103	-	(D)	352,697	352,697	-	(D)
3254127156	Calcium channel blockers such as isoptin, calan, procardia, cardizem, adalat.....	702,036	702,036	-	(D)	772,535	772,535	-	(D)
3254127161	Ace inhibitors, such as vasotec, capoten, prinivil, and zestril.....	1,391,979	1,391,979	-	-	2,272,538	2,272,538	-	-
3254127166	Other pharmaceutical preparations, acting on the cardiovascular system including vasopressors, and antiheparin agents, for human use.....	3,974,103	(D)	(D)	36,856	4,019,561	(D)	(D)	(D)
325412A	Pharmaceutical preparations acting on the respiratory systems, for human use.....	11,201,914	8,838,162	2,296,949	66,803	12,504,287	10,669,982	1,765,222	r/ 69,083
325412A111	Antihistamines (except cold preparations and antiemetics).....	(D)	(D)	737,696	(D)	(D)	(D)	304,917	(D)
325412A116	Bronchial dilators, including antiasthmatics.....	3,581,078	3,566,742	14,336	(D)	2,839,186	2,821,308	17,878	(D)
	Cough and cold preparations (prescription) :								
	Cough preparations and expectorants (containing antitussive or other ingredients intended primarily to treat cough only):								
325412A121	Narcotic.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A126	Nonnarcotic.....	36,154	36,154	(X)	(D)	49,176	49,176	(X)	(D)
	Cold preparations containing combinations of the following ingredients, (but not antitussive) nasal decongestant, antihistamine, analgesic, bioflavanoid, or antibiotic):								
325412A131	Nasal decongestants.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A136	Antihistamine cold preparations.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A141	Other prescription cold preparations.....	7,481	7,481	(X)	(D)	12,209	12,209	(X)	(D)
325412A146	Cough and cold combinations (prescription).....	77,040	77,040	(X)	(D)	94,006	94,006	(X)	(D)

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[In thousands of dollars]

Product code	Product description	2003				2002			
		Total	Prescription legend	Nonprescription	Bulk shipments 1/	Total	Prescription legend	Nonprescription	Bulk shipments 1/
	Cough and cold preparations (nonprescription):								
	Decongestants:								
325412A151	Nasal sprays.....	96,749	(X)	96,749	-	96,292	(X)	96,292	-
325412A156	Nose drops.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A161	Other decongestants.....	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)
325412A166	Cough syrups.....	711,005	(X)	711,005	-	638,416	(X)	638,416	-
325412A171	Capsules and tablets.....	729,767	(X) b/	729,767	b/ 13,397	525,918	(X) b/	525,918	b/ 19,072
325412A176	Lozenges.....	10,029	(X)	10,029	-	10,763	(X)	10,763	-
325412A181	Topical preparations.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A186	Cough drops.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A191	Other nonprescription cough and cold preparations.....	49,493	(X)	49,493	(D)	33,875	(X)	33,875	(D)
325412A194	Beta agonists such as proventil and ventolin.....	383,176	(D)	(D)	(D)	347,905	(D)	(D)	(D)
325412A197	Other pharmaceutical preparations acting on the respiratory system, for human use.....	3,017,557	3,010,505	7,052	7,527	5,061,359	5,054,992	6,367	6,372
325412 D1	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use.....	14,111,578	12,583,551	1,179,447	348,580	13,373,247	11,907,442	1,236,300	229,505
	Digestive system preparations:								
325412D111	Enzymes.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412D114	Antacids, including acid neutralizing products with coating functions, but excluding effervescent salicylate products classified as analgesics.....	470,801	(D)	(D)	8,623	674,145	(D)	(D)	2,918
325412D117	Antidiarrheals.....	773,662	(D)	(D)	(D)	649,104	(D)	(D)	(D)
	Laxatives:								
325412D121	Irritants.....	87,938	(D)	(D)	-	107,084	(D)	(D)	(D)
325412D124	Bulk producing.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412D127	Fecal softeners.....	48,813	3,753	45,060	(D)	44,817	(D)	(D)	(D)
325412D131	Emollients.....	(D)	-	(D)	-	(D)	-	(D)	-
325412D134	Saline.....	21,600	-	21,600	-	23,221	-	23,221	-
325412D137	Enema specialties.....	52,245	(D)	(D)	-	36,259	(D)	(D)	(D)
325412D141	Digestants.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412D144	Bile therapy preparations, including bile products, cholagogues, and choleretics.....	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)
325412D147	Antinauseants and motion sickness remedies (antiemetics), including antihistaminic antiemetic preparations.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412D151	Lipotropics and cholesterol reducers.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412D154	Diet aids containing local anesthetics such as benzocaine.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
	Antispasmodics and anticholinergics:								
325412D157	Synthetics.....	10,575	10,575	-	-	6,623	6,623	-	-
325412D161	Ataractic combinations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412D164	Belladonna and derivatives.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
325412D167	H2 Blocking agents such as zantac, tagemet, carafate and pepcid.....	1,570,310	(D)	(D)	-	1,434,997	(D)	(D)	(D)
325412D171	Other antispasmodics and anticholinergics.....	35,355	(D)	(D)	-	35,021	(D)	(D)	-
325412D174	Other digestive system preparations, including emetics.....	350,998	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Genito-urinary preparations:								
325412D177	Urinary antibacterials and antiseptics.....	164,252	(D)	(D)	(D)	183,691	(D)	(D)	(D)
	Diuretics, excluding aminophylline, xanthine, and rauwolfiadiuretic combinations. (see cardiovascular preparations):								
325412D181	Thiazides and related agents.....	(D)	(D)	-	-	(D)	(D)	-	-
325412D184	Other diuretics.....	116,640	(D)	(D)	-	140,761	(D)	(D)	-
325412D187	Oxytocics.....	72,431	72,431	-	(D)	62,694	62,694	-	(D)
325412D191	Contraceptive agents (except oral contraceptives) aerosols, jels, sponges, and creams.....	(D)	(D)	(D)	-	(D)	(D)	(D)	-

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[In thousands of dollars]

Product code	Product description	2003				2002			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
325412D193	Premenstrual tension preparations.....	(D)	-	(D)	-	(D)	-	(D)	-
325412D195	Vaginal cleaners.....	(D)	(D)	(D)	-	(D)	(D)	(D)	-
325412D197	Other pharmaceutical preparations acting on the genito-urinary system including urinary tract anesthetics, for human use.....	1,237,930	(D)	(D)	(D)	1,598,012	(D)	(D)	(D)
325412G1	Pharmaceutical preparations acting on the skin, for human use.....	2,942,926	(D)	(D)	(D)	2,844,436	(D)	(D)	(D)
325412G111	Dermatological preparations: Emollients and protectives, including burn remedies and ointment bases.....	550,048	b/ 49,875	500,173	-	522,865	b/ 43,090	479,775	(D)
325412G116	Antipruritics and local anesthetic skin preparations.....	(D)	(D)	(D)	62	(D)	(D)	(D)	(D)
325412G121	Coal tar, sulfur and resorcinol preparations.....	9,041	(D)	(D)	-	r/ 10,415	(D)	(D)	-
325412G126	Antiacne preparations.....	512,674	(D)	(D)	(D)	486,577	(D)	(D)	(D)
325412G131	Antidandruff and antiseborrheic preparations (except dandruff shampoos).....	24,641	13,390	11,251	-	27,152	12,999	14,153	-
325412G136	Other dermatological preparations.....	631,209	459,372	171,837	(D)	439,539	274,855	164,684	(D)
325412G141	Hemorrhoidal preparations.....	93,297	4,898	88,399	-	94,472	6,054	88,418	-
325412G146	External analgesics and counter-irritants: Ointments, jellies, pastes, creams, cerates, and salves.....	388,629	(D)	(D)	-	338,872	(D)	(D)	-
325412G151	Liquid, excluding rubbing alcohol, but including liniments.....	21,229	-	21,229	-	22,488	-	22,488	-
325412G156	Rubbing alcohol.....	21,641	(D)	(D)	-	32,718	(D)	(D)	-
325412G161	Other external analgesics and counterirritants.....	20,286	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412G166	Other pharmaceutical preparations acting on the skin, for human use.....	405,922	321,734	84,188	-	619,696	r/ 532,293	r/ 87,403	-
325412L1	Vitamin, nutrient, and hematinic preparations, for human use.....	6,877,714	1,808,567	4,810,999	258,148	6,028,849	1,772,533	3,973,411	282,905
325412L111	Vitamins: Multivitamins, plain and with minerals, (except B complex vitamins and fish liver oils).....	2,314,994	20,287	2,294,707	41,214	2,044,947	24,555	2,020,392	39,189
325412L116	Pediatric vitamin preparations (drops, suspensions and chewable tablets).....	152,117	(D)	(D)	850	135,160	(D)	(D)	808
325412L121	Prenatal vitamin preparations.....	78,076	(D)	(D)	(D)	61,935	(D)	(D)	(D)
325412L126	B complex preparations.....	230,779	(D)	(D)	(D)	186,833	(D)	(D)	8,928
325412L131	Fluoride preparations.....	3,248	(D)	(D)	(D)	3,532	(D)	(D)	(D)
325412L136	All other vitamin preparations.....	753,519	37,213	716,306	65,076	726,715	r/ 32,656	694,059	58,460
325412L141	Fish liver oils (cod, etc.).....	81,741	(D)	(D)	(D)	60,345	(D)	(D)	(D)
325412L146	Nutrients, excluding therapeutic dietary foods and infant formulas.....	344,745	26,950	317,795	96,764	r/ 375,456	30,442	r/ 345,014	91,379
325412L151	Tonics and alteratives.....	9,336	-	9,336	-	9,430	-	9,430	-
325412L156	Hematinics: With B12: Oral.....	15,976	15,312	664	41	24,243	23,451	792	41
325412L161	Parenteral.....	(D)	(D)	(D)	-	(D)	(D)	-	-
325412L166	Other hematinics: Oral.....	25,414	(D)	(D)	(D)	25,441	(D)	(D)	(D)
325412L171	Parenteral.....	(D)	(D)	-	-	(D)	(D)	-	-
325412L176	Hospital solutions, including dextran, etc., but excluding biologicals such as blood plasma.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
325412L181	Other vitamin, nutrient, and hematinic preparations, for human use.....	1,621,166	594,793	1,026,373	37,122	1,114,160	579,126	535,034	69,159
325412P1	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,544,450	10,296,316	1,040,720	207,414	11,336,918	10,338,019	r/ 939,579	59,320
325412P111	Anti-infective agents, excluding corticoid anti-infective combinations (see product code 325412I015): Amebicides and trichomonocides.....	30,028	30,028	-	-	27,340	(D)	(D)	-
325412P114	Anthelmintics.....	1,076	(D)	(D)	-	1,226	(D)	(D)	-

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[In thousands of dollars]

Product code	Product description	2003				2002			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
	Systemic antibiotic preparations:								
	Broad and medium spectrum (single or in combinations with other antibiotics):								
325412P117	Tetracyclines, including chlortetracycline and congeners.....	88,639	88,639	-	-	75,138	75,138	-	-
325412P121	Cephalosporins, such as cefamandolenafate and cephalexin.....	972,017	972,017	-	109,119	1,113,075	1,113,075	-	-
325412P124	Erythromycins, such as erythromycin ethylsuccinate and erythromycin stearate.....	45,359	45,359	-	-	53,911	53,911	-	-
	Penicillins (single):								
	Semisynthetic penicillins, such as amoxicillins, and ampicillin:								
325412P127	Injectable.....	54,120	54,120	-	-	62,777	62,777	-	-
325412P131	Other forms.....	1,853,745	1,853,745	-	-	2,845,821	2,845,821	-	-
	Other penicillins (except semisynthetic), such as penicillin V and penicillin G:								
325412P134	Injectable.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P137	Other forms.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P141	Other broad and medium spectrum antibiotics (except sulfa-antibiotic combinations).....	1,256,877	(D)	(D)	-	1,182,841	(D)	(D)	-
325412P144	Antibiotics in combination with sulfonamides.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P147	Other systemic antibiotic preparations, including narrow-spectrum antibiotics and streptomycins.....	153,367	153,367	-	(D)	146,765	146,765	-	(D)
325412P151	Topical antibiotic preparations.....	291,538	(D)	(D)	-	208,623	(D)	(D)	-
	Tuberculostatic agents:								
325412P154	Isoniazid (isonicotinic acid hydrazide) preparations.....	4,147	4,147	-	-	3,739	3,739	-	-
325412P157	Other antituberculars.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P161	Antimalarials (plasmodicides).....	47,452	47,452	-	130	42,257	42,257	-	-
325412P164	Sulfonamides (except antibiotic sulfonamide combinations).....	22,871	22,871	-	-	23,490	23,490	-	-
325412P167	Antifungal preparations.....	986,105	(D)	(D)	-	914,382	(D)	(D)	-
325412P171	Antivirals, systemic, such as zovirax, and retrovir.....	3,520,449	(D)	(D)	(D)	2,801,667	(D)	(D)	(D)
325412P174	Other anti-infective agents.....	250,384	225,508	24,876	-	203,586	(D)	(D)	-
	Antibacterials and antiseptics:								
325412P177	General.....	397,494	(D)	(D)	10,302	406,032	(D)	(D)	6,585
325412P181	Mouth and throat preparations.....	(D)	5,947	(D)	(D)	(D)	5,966	(D)	(D)
325412P184	Other pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	421,632	(D)	(D)	(D)	390,519	(D)	(D)	(D)
325412T1	Pharmaceutical preparations for veterinary use.....	2,653,378	1,741,905	821,865	89,608	2,471,078	1,321,973	1,062,977	86,128
325412T111	Anesthetics.....	44,672	44,672	-	-	42,124	42,124	-	-
325412T116	Anthelmintics.....	276,151	230,457	45,694	26	r/ 248,954	r/ 205,973	r/ 42,981	(D)
	Antibiotics:								
325412T121	Tetracyclines.....	18,386	(D)	(D)	(D)	28,769	(D)	(D)	(D)
325412T126	Penicillins.....	33,963	(D)	(D)	(D)	34,493	(D)	(D)	(D)
325412T131	Other antibiotics.....	637,161	533,938	103,223	(D)	350,125	245,070	105,055	(D)
325412T136	Antiseptics, wound dressings and fungicides.....	76,460	(D)	(D)	(D)	67,217	(D)	(D)	(D)
325412T141	Hematinics.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412T146	Hemostatics.....	(D)	-	(D)	-	(D)	(D)	(D)	-
	Hormones:								
325412T151	Insulin preparations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412T156	ACTH (corticotropin) preparations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412T161	Other hormone preparations.....	144,289	89,950	54,339	-	r/ 120,665	(D)	(D)	-
325412T166	Intravenous solutions and electrolytes.....	11,453	(D)	(D)	(D)	11,634	(D)	(D)	-
325412T171	Nitrofurans.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412T176	Nutrients and tonics.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412T181	Parasiticides, external.....	164,458	(D)	(D)	(D)	193,382	(D)	(D)	(D)

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
 [In thousands of dollars]

Product code	Product description	2003			2002				
		Total	Prescription legend	Nonprescription	Bulk shipments 1/	Total	Prescription legend	Nonprescription	Bulk shipments 1/
325412T186	Sulfonamides.....	9,960	(D)	(D)	-	13,186	(D)	(D)	-
325412T191	Tranquilizers and ataractics.....	26,406	(D)	(D)	-	25,738	(D)	(D)	-
325412T194	Vitamins and minerals.....	141,373	4,519	136,854	6,039	r/ 148,521	3,782	r/ 144,739	(D)
325412T197	Other pharmaceutical preparations, for veterinary use.....	959,833	673,749	286,084	(D)	1,080,001	602,734	r/ 477,267	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data.
 X Not applicable.

1/Data for "Bulk shipments" are excluded from all horizontal ten-digit product detail totals; however, these data are included in all seven-digit product class and six-digit industry level totals. Since bulk shipments are typically reported by a small number of producers, and often must be suppressed, inclusion of bulk shipments in all horizontal totals would require the suppression of additional detail.

2/Product code 3254124127 is combined with product code 3254124141 to avoid disclosing data for individual companies.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Domestic Value of Shipments, Exports, Imports, and Apparent Consumption of Pharmaceutical Preparations, Except Biologicals: 2003 and 2002
[Thousands of dollars]

Product code	Product description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise 1/	Percent exports to manufacturers' shipments	Imports for consumption 2/ (value)	Apparent consumption 3/ (value)	Percent imports to apparent consumption (value)
2003							
	Pharmaceutical preparations.....	103,757,791	3,201,667	3.1	5,945,812	106,501,936	5.6
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	20,076,809	1,013,912	5.1	2,306,680	21,369,577	10.8
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,705,318	188,939	0.8	533,656	25,050,035	2.2
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	9,643,704	36,418	0.4	249,080	9,856,366	2.5
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	11,201,914	84,472	0.8	8,579	11,126,021	0.1
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	14,111,578	46,172	0.3	168,452	14,233,858	1.2
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,942,926	228,476	7.8	105,847	2,820,297	3.8
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	6,877,714	287,792	4.2	81,077	6,670,999	1.2
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,544,450	1,257,395	10.9	1,178,042	11,465,097	10.3
325412T100	Pharmaceutical preparations for veterinary use.....	2,653,378	58,091	2.2	226,447	2,821,734	8.0
2002							
	Pharmaceutical preparations.....	100,741,449	2,857,313	2.8	3,858,168	101,742,304	3.8
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	17,499,148	643,353	3.7	2,257,744	19,113,539	11.8
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,344,732	208,372	0.9	139,207	24,275,567	0.6
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,338,754	44,909	0.4	14,131	10,307,976	0.1
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	12,504,287	110,239	0.9	9,656	12,403,704	0.1
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	13,373,247	45,566	0.3	99,713	13,427,394	0.7
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,844,436	127,248	4.5	107,222	2,824,410	3.8
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	6,028,849	286,983	4.8	67,804	5,809,670	1.2
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,336,918	1,322,943	11.7	984,059	10,998,034	8.9
325412T100	Pharmaceutical preparations for veterinary use.....	2,471,078	67,700	2.7	178,632	2,582,010	6.9

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Apparent consumption represents new domestic supply and is derived by subtracting exports from the total of manufacturers' shipments plus imports.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2003

Product code	Product description	Export number 1/	Import number 2/
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic disease.....	3003.31.0000, 3003.39.0000, 3003.40.0000, 3004.31.0000, 3004.32.0000, 3004.39.0050, 3004.90.9015	3003.31.0000, 3003.39.1000, 3003.39.5000, 3003.40.0000, 3004.31.0000, 3004.32.0000, 3004.39.0050, 3004.90.9015
3254124100	Pharmaceutical preparations acting on central nervous system and sense organs.....	3004.40.0020, 3004.40.0030, 3004.40.0040, 3004.90.9025, 3004.90.9030, 3004.90.9035, 3004.90.9040	3004.40.0020, 3004.40.0030, 3004.40.0040, 3004.90.9030, 3004.90.9035, 3004.90.9040
3254127100	Pharmaceutical preparations acting on cardiovascular system.....	3004.40.0010, 3004.90.9020	3004.40.0010, 3004.90.9020
325412A100	Pharmaceutical preparations acting on respiratory system.....	3004.40.0060, 3004.90.9075, 3004.90.9080, 3004.90.9085	3004.40.0060, 3004.90.9075, 3004.90.9080, 3004.90.9085
325412D100	Pharmaceutical preparations acting on digestive or genitro-urinary system.....	3004.90.9050, 3004.90.9055, 3004.90.9060, 3004.90.9065, 3004.90.9070, 3006.60.0000	3004.90.9050, 3004.90.9055, 3004.90.9060, 3004.90.9065, 3004.90.9070, 3006.60.0000
325412G100	Pharmaceutical preparations acting on skin.....	3004.40.0050, 3004.90.9045	3004.40.0050, 3004.90.9045
325412L100	Vitamin, nutrient and hematinic preparations.....	3004.50.4500, 3004.50.5010, 3004.50.5020, 3004.50.5030, 3004.50.5040	3004.50.1000, 3004.50.2000, 3004.50.3000, 3004.50.4000, 3004.50.5010, 3004.50.5020, 3004.50.5030, 3004.50.5040
325412P100	Pharmaceutical preparations affecting parasitic and infective disease.....	3003.10.0000, 3003.20.0000, 3004.10.1020, 3004.10.1045, 3004.10.5045, 3004.10.5060, 3004.20.0020, 3004.20.0030, 3004.20.0060, 3004.90.1000, 3004.90.9005, 3004.90.9010	3003.10.0000, 3003.20.0000, 3004.10.1020, 3004.10.1045, 3004.10.5045, 3004.10.5060, 3004.20.0020, 3004.20.0030, 3004.20.0060, 3004.90.1000, 3004.90.9005, 3004.90.9010
325412T100	Pharmaceutical preparations for veterinary use.....	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005, 3004.90.9003	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005, 3004.90.9003

1/Source: 2003 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized tariff Schedule of the United States, Annotated (2003).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on pharmaceutical preparations, except biologicals, have been collected by the Census Bureau since 1962. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.