

Pharmaceutical Preparations, Except Biologicals: 2002

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SUMMARY OF FINDINGS

The value of shipments for pharmaceutical preparations in the United States totaled \$100.6 billion in 2002, an 11.6-percent increase from \$90.2 billion in 2001. The leading product category was pharmaceutical preparations that act on the central nervous system and sense organs in humans, which increased 28.2 percent to \$24.3 billion in 2002, from \$19.0 billion in 2001.

The value of shipments for individual product categories in 2002 were: pharmaceutical preparations affecting neoplasm, endocrine

system, and metabolic diseases for human use totaled \$17.5 billion, an 18.0-percent increase from \$14.8 billion in 2001; pharmaceutical preparations acting on the central nervous system and sense organs for human use totaled \$24.3 billion, a 28.2-percent increase from \$19.0 billion in 2001; pharmaceutical preparations acting on the cardiovascular system for human use totaled \$10.3 billion, a 5.3-percent increase from \$9.8 billion in 2001; pharmaceutical preparations acting on the respiratory system for human use totaled \$12.5 billion, a 7.0-percent increase from \$11.7 billion in 2001; pharmaceutical preparations acting on the digestive or genitourinary system for human use totaled \$13.3 billion, a 5.7-percent increase from \$12.6 billion in 2001; pharmaceutical preparations acting on the skin for human use totaled \$2.8 billion, which is a 4.0-percent increase from \$2.7 billion in 2001; vitamin, nutrient, and hematinic preparations for human use totaled \$6.0 billion, a 2.0-percent increase from \$5.9 billion in 2001; pharmaceutical preparations affecting parasitic and ineffective diseases for human use amounted \$11.3 billion, a 1.3-percent increase from \$11.2 billion in 2001; and pharmaceutical preparations for veterinary use amounted to \$2.5 billion, virtually unchanged from 2001.

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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Table 1. Value of Product Class Shipments of Pharmaceutical Preparations, Except Biologicals: 1998 to 2002
 [In thousands of dollars]

Product code	Product description	2002	2001	2000	1999	1998
	Pharmaceutical preparations.....	100,636,402	90,181,771	79,261,643	70,417,329	65,711,779
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	17,479,975	14,818,930	9,783,996	7,987,700	7,633,235
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,322,120	18,974,834	18,508,356	14,881,433	13,604,818
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,318,286	9,798,444	8,992,634	9,601,073	9,368,031
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	12,514,412	11,691,747	10,179,464	8,154,675	6,724,706
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	13,333,540	12,615,660	10,046,469	8,741,429	9,501,593
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,816,975	2,708,046	2,941,278	2,797,712	2,244,969
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	5,999,875	5,883,934	5,676,429	6,160,693	5,851,359
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,336,264	11,192,713	11,036,891	9,778,226	8,780,375
325412T100	Pharmaceutical preparations for veterinary use.....	2,514,955	2,497,463	2,096,126	2,314,388	2,002,693

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2002 and 2001
[In thousands of dollars]

Product code	Product description	2002				2001			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
325412	Pharmaceutical preparations (except biologicals).....	100,636,402	86,116,307	13,115,358	1,404,737	90,181,771	75,582,822	13,298,530	1,300,419
3254121	Pharmaceutical preparations affecting neoplasms, edocrine system, and metabolic diseases, for human use.....	17,479,975	17,340,140	28,200	111,635	14,818,930	14,635,986	44,032	138,912
	Hormones and synthetic substitutes:								
	Corticoids:								
3254121111	Systemic.....	320,546	(D)	(D)	(D)	343,614	(D)	(D)	(D)
3254121116	Local and topical, including anti-infective combinations.....	391,182	365,350	25,832	-	338,008	297,055	40,953	-
3254121121	Androgens.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254121126	Estrogens.....	308,936	308,936	-	-	299,535	299,535	-	-
3254121131	Insulin and antidiabetic agents.....	2,657,280	2,657,280	-	(D)	r/ 2,807,787	r/ 2,807,787	-	(D)
3254121136	ACTH (corticotropin).....	(D)	(D)	-	-	(D)	(D)	-	-
3254121141	Oral contraceptive preparations.....	a/ 385,380	a/ 385,380	-	-	a/ 122,698	a/ 122,698	-	-
3254121146	Progestogens (excluding premenstrual tension preparations, see product 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.....	(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.....	2,454,106	2,454,106	-	(D)	2,895,096	2,895,096	-	(D)
3254121181	Other pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic diseases, for human use.....	8,844,085	(D)	(D)	70,772	6,355,005	(D)	(D)	108,219
3254124	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use.....	24,322,120	21,627,707	2,306,083	388,330	18,974,834	a/ 16,233,129	r/ 2,392,482	r/ 349,223
3254124111	Parasympathomimetic cholinergic drugs.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124114	Skeletal muscle relaxants.....	250,868	250,868	-	(D)	252,392	252,392	-	(D)
	Internal analgesics and antipyretics:								
	Narcotic:								
3254124117	Opium and derivatives.....	683,613	683,613	-	(D)	596,033	596,033	-	(D)
3254124121	Synthetic narcotics.....	1,531,172	1,531,172	-	(D)	342,820	342,820	-	(D)
	Nonnarcotic:								
	Salicylates:								
3254124124	Aspirin (acetylsalicylic acid).....	257,972	(D)	(D)	(D)	293,983	(D)	(D)	(D)
3254124127	Other salicylates, such as sodium salicylate 2/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3254124131	Aspirin combinations.....	177,852	(D)	(D)	-	186,161	(D)	(D)	-
3254124134	Acetaminophen and combinations.....	496,366	98,896	397,470	18,278	514,197	a/r/ 65,535	r/ 448,662	28,968
3254124137	Antiarthritics (nonhormonal).....	3,003,333	2,695,455	307,878	71,884	2,777,602	r/ 2,446,507	331,095	r/ 117,328
3254124141	Other internal analgesics and antipyretics, including effervescent types and suppositories 2/.....	228,045	(D)	(D)	(D)	348,647	(D)	(D)	(D)
3254124144	Anticonvulsants (except phenobarbital).....	1,000,363	1,000,363	-	40,627	714,039	714,039	-	r/ 26,970
	Psychotherapeutic agents:								
3254124147	Antidepressants.....	5,050,628	5,050,628	-	(D)	4,542,408	4,542,408	-	(D)
	Tranquilizers:								
3254124151	Phenothiazine derivatives.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124154	Other tranquilizers.....	64,933	64,933	-	-	77,805	77,805	-	-
3254124157	Other psychotherapeutic agents.....	(D)	(D)	-	(D)	1,446,471	1,446,471	-	(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)	-	-
3254124164	Anorexiant (except amphetamines).....	67,867	(D)	(D)	(D)	104,623	(D)	(D)	(D)
3254124167	Other CNS stimulants.....	634,143	(D)	(D)	(D)	530,589	(D)	(D)	(D)
	Sedatives and hypnotics:								
	Prescription:								
3254124171	Barbiturates.....	36,124	36,124	(X)	(D)	33,943	33,943	(X)	(D)
3254124174	Nonbarbiturates.....	159,550	159,550	(X)	-	129,415	129,415	(X)	-

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Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2002 and 2001
[In thousands of dollars]

Product code	Product description	2002				2001			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
3254124177	Nonprescription: Sleep inducers.....	82,461	(X)	82,461	-	r/ 98,533	(X)	r/ 98,533	(D)
3254124181	Calming agents.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
3254124184	Anesthetics (except urinary tract anesthetics and skin preparations used as antipruritics): Local and topical.....	238,365	(D)	(D)	(D)	287,703	(D)	(D)	(D)
3254124187	General.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3254124191	Eye and ear preparations, excluding anti-infectives, corticoids and antibacterials and antiseptics: Mydriatics and miotics.....	(D)	(D)	-	(D)	(D)	(D)	-	-
3254124193	Contact lens solutions.....	576,511	-	576,511	(D)	533,912	-	533,912	(D)
3254124195	Other eye and ear preparations.....	889,042	(D)	(D)	-	657,834	(D)	(D)	-
3254124197	Other pharmaceutical preparations acting on the central nervous system and the sense organs for human use.....	3,870,795	3,621,360	249,435	192,234	3,059,669	2,928,790	130,879	92,553
32541271	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,318,286	(D)	(D)	151,198	9,798,444	(D)	(D)	163,832
3254127111	Anticoagulants.....	857,625	(D)	(D)	(D)	733,724	(D)	(D)	(D)
3254127116	Hemostatics.....	(D)	(D)	-	-	(D)	(D)	-	-
3254127121	Digitalis preparations.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254127126	Hypotensives: Rauwolfia-alkaloid preparations.....	5,770	5,770	-	-	b/ 6,086	b/ 6,086	-	-
3254127131	Beta receptor blocking agents.....	160,782	160,782	-	-	161,444	161,444	-	-
3254127136	Other hypotensives.....	426,644	426,644	-	(D)	372,135	372,135	-	(D)
3254127141	Vasodilators: Coronary.....	774,877	774,877	-	(D)	684,246	684,246	-	(D)
3254127146	Peripheral.....	(D)	(D)	-	-	46,412	46,412	-	-
3254127151	Antiarrhythmics, such as propanolol and quinidine.....	352,697	352,697	-	-	215,534	215,534	-	-
3254127156	Calcium channel blockers such as isoptin, calan, procardia, cardizem, and adalat.....	772,535	772,535	-	(D)	r/ 810,558	r/ 810,558	-	(D)
3254127161	Ace inhibitors, such as vasotec, capoten, prinivil, and zestril.....	2,272,538	2,272,538	-	-	(D)	(D)	-	-
3254127166	Other pharmaceutical preparations, acting on the cardiovascular system including vasopressors, and antiheparin agents, for human use.....	4,019,561	(D)	(D)	(D)	3,390,425	(D)	(D)	(D)
325412A	Pharmaceutical preparations acting on the respiratory system, for human use.....	12,514,412	10,670,251	1,764,953	79,208	a/ 11,691,747	9,706,918	a/ 1,903,750	81,079
325412A111	Antihistamines (except cold preparations and antiemetics).....	(D)	(D)	304,648	(D)	(D)	(D)	282,238	(D)
325412A116	Bronchial dilators, including antiasthmatics.....	2,839,186	2,821,308	17,878	(D)	2,354,213	2,334,921	19,292	(D)
325412A121	Cough and cold preparations (prescription): Cough preparations and expectorants (containing antitussive or other ingredients intended primarily to treat cough only): Narcotic.....	(D)	(D)	(X)	-	131,019	131,019	(X)	-
325412A126	Nonnarcotic.....	49,176	49,176	(X)	(D)	r/ 64,832	r/ 64,832	(X)	(D)
325412A131	Cold preparations containing combinations of the following ingredients (but not antitussive): nasal decongestant, antihistamine, analgesic, bioflavonoid, or antibiotic: Nasal decongestants.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A136	Antihistamine cold preparations.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A141	Other prescription cold preparations.....	12,209	12,209	(X)	(D)	r/ 25,124	r/ 25,124	(X)	(D)
325412A146	Cough and cold combinations (prescription).....	94,006	94,006	(X)	(D)	146,197	146,197	(X)	-
325412A151	Cough and cold preparations (nonprescription): Decongestants: Nasal sprays.....	96,292	(X)	96,292	-	105,807	(X)	105,807	-
325412A156	Nose drops.....	(D)	(X)	(D)	-	764	(X)	764	-

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2002 and 2001
[In thousands of dollars]

Product code	Product description	2002				2001			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
325412A161	Other decongestants.....	(D)	(X)	(D)	(D)	(D)	(X)	(D)	(D)
325412A166	Cough syrups.....	638,416	(X)	638,416	-	740,818	(X)	740,818	-
325412A171	Capsules and tablets.....	525,918	(X)	525,918	b/ 19,072	521,166	(X)	521,166	b/ 25,353
325412A176	Lozenges.....	10,763	(X)	10,763	-	18,151	(X)	18,151	-
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.....	33,875	(X)	33,875	(D)	52,200	(X)	52,200	(D)
325412A194	Beta agonists such as proventil and ventolin.....	347,905	(D)	(D)	(D)	1,021,212	(D)	(D)	(D)
325412A197	Other pharmaceutical preparations acting on the respiratory system, for human use.....	5,061,359	5,054,992	6,367	(D)	3,628,062	3,621,668	6,394	(D)
325412 D1	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use.....	13,333,540	11,872,632	1,231,403	229,505	12,615,660	11,136,170	1,345,390	134,100
	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.....	670,248	(D)	(D)	2,918	577,004	r/ 41,396	535,608	1,773
325412D117	Antidiarrheals.....	649,104	(D)	(D)	(D)	536,567	(D)	(D)	(D)
	Laxatives:								
325412D121	Irritants.....	107,084	(D)	(D)	(D)	78,443	(D)	(D)	(D)
325412D124	Bulk producing.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412D127	Fecal softeners.....	44,817	2,738	42,079	(D)	58,524	(D)	(D)	(D)
325412D131	Emollients.....	(D)	-	(D)	-	(D)	-	(D)	(D)
325412D134	Saline.....	23,221	-	23,221	-	(D)	-	(D)	-
325412D137	Enema specialties.....	36,259	(D)	(D)	(D)	40,696	(D)	(D)	(D)
325412D141	Digestants.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412D144	Bile therapy preparations, including bile products, cholagogues, and chologogues.....	(D)	(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.....	6,623	6,623	-	-	25,656	25,656	-	-
325412D161	Ataractic combinations.....	-	-	-	-	-	-	-	-
325412D164	Belladonna and derivatives.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
325412D167	H2 Blocking agents such as zantac, tagemet, carafate, and pepcid.....	1,432,429	(D)	(D)	(D)	1,619,090	(D)	(D)	-
325412D171	Other antispasmodics and anticholinergics.....	35,021	(D)	(D)	-	33,366	(D)	(D)	-
325412D174	Other digestive system preparations, including emetics.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Genito-urinary preparations:								
325412D177	Urinary antibacterials and antiseptics.....	183,691	(D)	(D)	(D)	215,731	214,265	1,466	(D)
	Diuretics, excluding aminophylline, xanthine, and rauwolfiadiuretic combinations (see cardiovascular preparations):								
325412D181	Thiazides and related agents.....	(D)	(D)	-	-	68,213	68,213	-	-
325412D184	Other diuretics.....	140,761	(D)	(D)	(D)	122,089	(D)	(D)	(D)
325412D187	Oxytocics.....	62,694	62,694	-	(D)	55,072	55,072	-	-
325412D191	Contraceptive agents (except oral contraceptives; i.e., aerosols, jels, sponges, and creams).....	(D)	(D)	(D)	-	(D)	(D)	(D)	-
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.....	1,598,012	(D)	(D)	(D)	1,520,061	(D)	(D)	(D)
325412G1	Pharmaceutical preparations acting on the skin, for human use.....	2,816,975	(D)	(D)	(D)	2,708,046	(D)	(D)	(D)

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2002 and 2001
[In thousands of dollars]

Product code	Product description	2002				2001			
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
325412G111	Dermatological preparations: Emollients and protectives, including burn remedies and ointment bases.....	522,865	b/ 43,090	479,775	(D)	r/ 516,179	53,731	462,448	(D)
325412G116	Antipruritics and local anesthetic skin preparations.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412G121	Coal tar, sulfur and resorcinol preparations.....	11,259	(D)	(D)	-	a/ 21,194	(D)	(D)	-
325412G126	Antiacne preparations.....	486,779	(D)	(D)	(D)	479,604	288,468	191,136	(D)
325412G131	Antidandruff and anti-seborrheic preparations (except dandruff shampoos).....	27,152	12,999	14,153	-	26,692	(D)	(D)	-
325412G136	Other dermatological preparations.....	439,539	274,855	164,684	(D)	297,691	144,176	153,515	(D)
325412G141	Hemorrhoidal preparations.....	94,472	6,054	88,418	-	106,679	5,323	101,356	-
325412G146	External analgesics and counterirritants: Ointments, jellies, pastes, creams, cerates, and salves.....	312,459	(D)	(D)	-	363,223	(D)	(D)	-
325412G151	Liquid, excluding rubbing alcohol, but including liniments.....	22,488	-	22,488	-	23,995	-	23,995	-
325412G156	Rubbing alcohol.....	32,718	(D)	(D)	-	a/ 31,509	(D)	(D)	-
325412G161	Other external analgesics and counterirritants.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412G166	Other pharmaceutical preparations acting on the skin, for human use.....	617,602	561,295	56,307	-	625,958	(D)	(D)	-
325412L1	Vitamin, nutrient, and hematinic preparations, for human use.....	5,999,875	1,771,491	3,945,335	283,049	5,883,934	r/ 1,757,751	3,861,386	b/r/ 264,797
325412L111	Vitamins: Multivitamins, plain and with minerals, (except B complex vitamins and fish liver oils).....	2,044,947	24,555	2,020,392	39,189	1,835,478	27,806	1,807,672	a/ 40,926
325412L116	Pediatric vitamin preparations (drops, suspensions and chewable tablets).....	135,160	(D)	(D)	808	b/ 137,228	(D)	(D)	r/ 875
325412L121	Prenatal vitamin preparations.....	61,935	(D)	(D)	(D)	51,766	(D)	(D)	(D)
325412L126	B complex preparations.....	186,833	(D)	(D)	8,928	r/ 162,696	(D)	(D)	a/r/ 5,465
325412L131	Fluoride preparations.....	3,532	(D)	(D)	(D)	(D)	(D)	(D)	-
325412L136	All other vitamin preparations.....	725,075	31,016	694,059	58,604	a/r/ 772,769	49,794	722,975	52,304
325412L141	Fish liver oils (cod, etc.).....	60,345	(D)	(D)	(D)	43,912	(D)	(D)	(D)
325412L146	Nutrients, excluding therapeutic dietary foods and infant formulas.....	347,380	30,442	316,938	91,379	r/ 363,336	r/ 40,658	r/ 322,678	88,091
325412L151	Tonics and alteratives.....	9,430	-	9,430	-	a/ 9,809	-	9,809	-
325412L156	Hematinics: With B12: Oral.....	24,243	23,451	792	-	23,203	21,885	1,318	-
325412L161	Parenteral.....	(D)	(D)	-	-	(D)	(D)	-	-
325412L166	Other hematinics: Oral.....	25,441	(D)	(D)	(D)	27,843	(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)	-
325412L181	Other vitamin, nutrient, and hematinic preparations, for human use.....	1,114,761	579,727	535,034	69,159	r/ 1,025,148	482,254	542,894	64,335
325412P1	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,336,264	10,009,209	1,267,735	59,320	11,192,713	10,029,001	1,113,838	a/r/ 49,874
325412P111	Anti-infective agents, excluding corticoid anti-infective combinations (see product code 325412I015): Amebicides and trichomonocides.....	27,340	27,340	-	-	31,496	31,496	-	-
325412P114	Anthelmintics.....	1,226	(D)	(D)	-	716	(D)	(D)	-
325412P117	Systemic antibiotic preparations: Broad and medium spectrum (single or in combinations with other antibiotics): Tetracyclines, including chlortetracycline and congeners.....	75,138	75,138	-	-	89,838	89,838	-	-
325412P121	Cephalosporins, such as cefamandole nafate and cephalixin.....	1,112,421	1,112,421	-	-	1,104,880	1,104,880	-	-
325412P124	Erythromycins, such as erythromycin ethylsuccinate and erythromycin stearate.....	53,911	53,911	-	-	52,722	52,722	-	-

Continued

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2002 and 2001
[In thousands of dollars]

Product code	Product description	2002			2001				
		Total	Prescription legend	Non-prescription	Bulk shipments 1/	Total	Prescription legend	Non-prescription	Bulk shipments 1/
	Penicillins (single):								
	Semisynthetic penicillins, such as amoxicillins, and ampicillin:								
325412P127	Injectable.....	62,777	62,777	-	-	53,107	53,107	-	-
325412P131	Other forms.....	2,845,821	2,845,821	-	-	(D)	(D)	-	-
	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).....	1,182,841	(D)	(D)	-	1,106,969	(D)	(D)	-
325412P144	Antibiotics in combination with sulfonamides.....	(D)	(D)	-	-	34,397	34,397	-	-
325412P147	Other systemic antibiotic preparations, including narrow-spectrum antibiotics and streptomycins.....	146,765	146,765	-	(D)	102,152	102,152	-	(D)
325412P151	Topical antibiotic preparations.....	208,623	(D)	(D)	-	190,439	(D)	(D)	(D)
	Tuberculostatic agents:								
325412P154	Isoniazid (isonicotinic acid hydrazide) preparations.....	3,739	3,739	-	-	3,446	3,446	-	-
325412P157	Other antituberculars.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P161	Antimalarials (plasmodicides).....	42,257	42,257	-	-	43,308	43,308	-	-
325412P164	Sulfonamides (except antibiotic sulfonamide combinations).....	23,490	23,490	-	-	27,856	27,856	-	-
325412P167	Antifungal preparations.....	914,382	(D)	(D)	-	748,986	(D)	(D)	-
325412P171	Antivirals, systemic, such as zovirax, and retrovir.....	2,801,667	(D)	(D)	(D)	2,907,082	(D)	(D)	(D)
325412P174	Other anti-infective agents.....	203,586	(D)	(D)	(D)	94,145	(D)	(D)	(D)
	Antibacterials and antiseptics:								
325412P177	General.....	406,032	(D)	(D)	6,585	399,559	(D)	(D)	5,526
325412P181	Mouth and throat preparations.....	(D)	5,966	(D)	(D)	(D)	4,234	(D)	(D)
325412P184	Other pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	390,519	(D)	(D)	(D)	371,981	(D)	(D)	(D)
325412T1	Pharmaceutical preparations for veterinary use.....	2,514,955	1,349,350	1,079,477	86,128	2,497,463	1,312,189	1,102,673	82,601
325412T111	Anesthetics.....	42,124	(D)	(D)	-	(D)	(D)	(D)	-
325412T116	Anthelmintics.....	291,376	216,124	75,252	(D)	296,364	231,926	64,438	(D)
	Antibiotics:								
325412T121	Tetracyclines.....	28,769	(D)	(D)	(D)	27,182	(D)	(D)	(D)
325412T126	Penicillins.....	34,493	(D)	(D)	(D)	39,888	(D)	(D)	(D)
325412T131	Other antibiotics.....	350,125	245,070	105,055	(D)	378,699	251,867	126,832	(D)
325412T136	Antiseptics, wound dressings and fungicides.....	67,401	(D)	(D)	(D)	50,572	(D)	(D)	(D)
325412T141	Hematinics 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412T146	Hemostatics 3/.....	(D)	(D)	-	-	(D)	(D)	-	-
	Hormones:								
325412T151	Insulin preparations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412T156	ACTH (corticotropin) preparations.....	(D)	(D)	-	-	(D)	(D)	(D)	-
325412T161	Other hormone preparations.....	138,927	84,376	54,551	-	(D)	86,380	(D)	-
325412T166	Intravenous solutions and electrolytes.....	11,634	(D)	(D)	-	10,069	(D)	(D)	-
325412T171	Nitrofurans.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412T176	Nutrients and tonics.....	(D)	(D)	900	(D)	(D)	(D)	996	(D)
325412T181	Parasiticides, external.....	188,920	(D)	(D)	(D)	200,571	(D)	(D)	(D)
325412T186	Sulfonamides.....	13,186	(D)	(D)	-	10,922	(D)	(D)	-
325412T191	Tranquilizers and ataractics.....	25,738	(D)	(D)	-	23,548	(D)	(D)	-
325412T194	Vitamins and minerals.....	85,144	3,782	81,362	(D)	84,866	3,529	81,337	(D)
325412T197	Other pharmaceutical preparations for veterinary use.....	1,129,129	605,846	523,283	(D)	1,083,558	567,378	516,180	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised 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 code 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.

3/Product code 325412T141 is combined with product code 325412T146 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: 2002 and 2001
 [Thousands of dollars]

Product code	Product description	Manu- facturers' shipments (value f.o.b. plant)	Exports of domestic merchan- dise 1/	Percent exports to manu- facturers' shipments	Imports for consump- tion 2/ (value)	Apparent consump- tion 3/ (value)	Percent imports to apparent consumption (value)
2002							
	Pharmaceutical preparations.....	100,636,402	2,857,313	2.8	3,858,168	101,637,257	3.8
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	17,479,975	643,353	3.7	2,257,744	19,094,366	11.8
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,322,120	208,372	0.9	139,207	24,252,955	0.6
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,318,286	44,909	0.4	14,131	10,287,508	0.1
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	12,514,412	110,239	0.9	9,656	12,413,829	0.1
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	13,333,540	45,566	0.3	99,713	13,387,687	0.7
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,816,975	127,248	4.5	107,222	2,796,949	3.8
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	5,999,875	286,983	4.8	67,804	5,780,696	1.2
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,336,264	1,322,943	11.7	984,059	10,997,380	8.9
325412T100	Pharmaceutical preparations for veterinary use.....	2,514,955	67,700	2.7	178,632	2,625,887	6.8
2001							
	Pharmaceutical preparations.....	90,181,771	6,283,386	7.0	8,898,283	92,796,668	9.6
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	14,818,930	1,419,234	9.6	2,173,270	15,572,966	14.0
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	18,974,834	1,529,078	8.1	1,328,285	18,774,041	7.1
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	9,798,444	484,159	4.9	1,750,629	11,064,914	15.8
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	11,691,747	267,312	2.3	574,629	11,999,064	4.8
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	12,615,660	522,490	4.1	1,441,006	13,534,176	10.6
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	2,708,046	59,410	2.2	82,579	2,731,215	3.0
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	5,883,934	291,669	5.0	38,007	5,630,272	0.7
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,192,713	1,514,560	13.5	1,104,814	10,782,967	10.2
325412T100	Pharmaceutical preparations for veterinary use.....	2,497,463	195,474	7.8	405,064	2,707,053	15.0

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.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2002

Product code	Product description	Export code 1/	Import code 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	3003.31.0000, 3003.39.1000, 3003.39.5000, 3003.40.0000, 3004.31.0000, 3004.32.0000, 3004.39.0050
3254124100	Pharmaceutical preparations acting on central nervous system and sense organs.....	3004.40.0020, 3004.40.0030, 3004.40.0040	3004.40.0020, 3004.40.0030, 3004.40.0040
3254127100	Pharmaceutical preparations acting on cardiovascular system.....	3004.40.0010	3004.40.0010
325412A100	Pharmaceutical preparations acting on respiratory system.....	3004.40.0060	3004.40.0060
325412D100	Pharmaceutical preparations acting on digestive or genitro-urinary system.....	3006.60.0000	3006.60.0000
325412G100	Pharmaceutical preparations acting on skin.....	3004.40.0050, 3004.40.0070	3004.40.0050, 3004.40.0070
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	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
325412T100--	Pharmaceutical preparations for veterinary use.....	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005

1/Source: 2002 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 (2002).

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.