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Table 8Material codes, code descriptions, and the value of agriculturally deriv	ved materials (other than wood and paper products)
used in manufacturing in 1992	

Code	Description	Value
		1,000 dollars
10014	All other fibers (silk, jute, reused wool, waste, etc.)	28,000
1903	Broomcorn	9,100
3101	Raw cotton fibers	3,140,700
9101	Agricultural products (crude), Including flowers, grains, seeds, herbs, etc.	705,500
0001	Raw wool, mohair, and other animal fibers (scoured weight)	220,200
1401	Raw wool fibers	220,200 d
3100	Natural rubber	40,100
3111	Natural dry rubber	608,900
3113	Natural latex rubber (dry solids content)	313,100
0015	Other fibrous materials, including rags, straw, and bagasse	65,600
0013	Cotton waste	20,100
0047	Cotton linters and cotton waste	12,100
0047	Cotton felt filling materials, purchased, premade	
0101		18,100
	Processed food and kindred products, including lactose, meat-packing-plant products, yeast, etc.	146,300
1191	Hides, skins, and pelts Narah	1,236,000
4609	Starch Narch and dout in	524,900
4610	Starch and dextrin	23,900
7001	Animal and vegetable oils	80,300
7011	Vegetable oli	67,000
7020	Fats, oils, greases, and tallow	430,600
7431	Cotton linters (net weight)	72,100
7619	Vegetable olis	50,900
7711	Grease and inedible fallow	164,200
0010	Yarns and textiles made of cotton, wool, slik, and manmade fibers	35,800
0234	Cotton fabrics	68,800
0305	All other fabrics (except manmade), primary backing	5,100
1101	Cotton broadwoven fabrics (piece goods)	1,015,100
1161	Woven cotton upholstery fabrics, excluding ticking	253,400
8102	Cotton yarns	368,400
8110	Carded cotton yarn	1,024,700
8120	Combed cotton yarn	421,300
8151	Wool yarn	15,500
8301	Spun wool and chiefly wool yarns	29,500
9911	Wool felt	6,700
9961	Jute secondary backing	80,000
9963	Wool tops	90,000
9941	Cork products	53,900
4421	Perfume oil mixtures and blends	610,200
9921	Fatty acids	217,100
9943	Gelatin (pharmaceutical grade) and gelatin capsules	51,200
9951	Essential olis, natural	95,300
1100	Finished leather	465,200
1102	Finished upper leather	142,400
1107	Other finished leather	39,200
1108	All other finished leather	16,900
1111	Finlshed upper leather	724,800
1112	Finished soling leather	189,900
9991	Dressed hair (including bristle and horsehair)	16,300
9823	Wool nolls and waste	8,500
	Total agriculturally derived materials other than wood and paper products	14,000,000
	Id to avoid disclosing figures for individual companies.	14,022,900

d = Data withheld to avoid disclosing figures for individual companies.

Source: 1992 Census of Manufactures, Bureau of the Census, May 1996.

Table 9-Material codes, code descriptions, and the value of wood and paper products used in manufacturing in 1992

Code	Description	Value
		1,000 dolla
81111	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)	3,517,200
90005	Wastepaper, all types	121,900
20006	Mixed wastepaper, except plant's own broke paper	230,000
20007	Mechanical news wastepaper, except plant's own broke paper	194,800
80008	Fly ash	800
90009	High-grade pulp substitutes wastepaper, except plant's own broke paper	276,300
90010	High-grade deinking wastepaper, except plant's own broke paper	245,700
20072	Other mechanical wastepaper, except plant's own broke paper	60,000
90073	Corrugated wastepaper, including kraft, except plant's own broke paper	711,800
40001	Lumber and wood products, except furniture	41,600
40090	Other lumber and wood products, except furniture	11,400
10099	Other wood products (except lumber)	11,300
41101	Spruce and true fir pulpwood bolts and logs	241,800
41102	Hemlock pulpwood bolts and logs	189,100
11104	Southern pine pulpwood bolts and logs	2,068,000
11108	Southern mixed hardwood pulpwood bolts and logs	745,500
11109	Poles, piling, and other round or hewn wood products treated in the same establishment	216,300
1111	Hardwood logs, bolts, and unsliced flitches	1,268,000
1112	Softwood logs, bolts, and unsliced flitches	7,015,300
41113	Logs, bolts, and unsliced filtches	90,300
11135	Other softwood pulpwood bolts and logs, Including Douglas fir and Jack pine	253,600
41137	Other hardwood pulpwood bolts and logs	368,300
42011	Chips, slabs, edgings, shavings, sawdust, and other wood waste	22,900
12012	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	2,224,400
12013	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	861,000
42016	Chips, slabs, edgings, sawdust, and other wood waste, except planer shavings	174,500
12017	Planer shavings	139,700
42101	Rough and dressed lumber	354,400
42103	Dressed lumber	941,500
42110	Hardwood rough lumber	1,764,200
42111	Hardwood lumber, rough and dressed	816,400
12117	Hardwood dressed lumber	498,600
12121	Softwood rough lumber	2,219,000
42123	Softwood lumber, rough and dressed	171,900
42128	Softwood dressed lumber	1,560,200
42170	Softwood cut stock, including window and cabinet parts	542,500
42600	Hardwood dimension and parts, including wood furniture frames	411,700
2620	Hardwood dimension and parts, excluding furniture frames	619,000
12628	Hardwood dimension and parts, including furniture frames	55,600
42661	Furniture frames, wood	464,500
13001	Veneer and plywood	127,800
13011	Millwork, wood (Including wood doors, window sash, moldings, and cabinets)	58,300
13056	Plywood	208,000
13103	Wood doors and door units	17,300
13105	Wood millwork, including molding, doors, and windows	67,500
13401	Kitchen cabinets, wood	81,100
3510	Hardwood plywood	542,900
13530	Hardwood veneer	189,900
13540	Hardwood veneer	501,100
3601	Softwood plywood	205,800
3640	Softwood veneer	463,800
4021	Wood boxes, pallets, skids, and containers	92,200
4022	Wooden containers, complete (including combination wood and paperboard)	36,200
19300	Reconstituted wood products, including particleboard, oriented-strand board, medium density	
0010	fiberboard, and hardboard	88,100
19310	Particleboard (wood)	929,100
19322	Orlented-strand board (OSB) and waferboard	64,300
9330	Medium density fiberboard (MDF)	246,100
19340	Hardboard (wood fiberboard)	287,000
		Continued

Table 9-Material codes, code descriptions, and the value of wood and paper products used in manufacturing in 1992---continued

Code	Description	Value
		1,000 dollars
49951	Wood brush handles and backs	30,000
19991	Wood parts, including handles	47,400
51003	Household-type furniture, including tables, sofas, beds, mattresses, etc.	33,000
51011	Cabinets (wood, metal, and plastics)	510,400
50001	Paper and paperboard products, including paperboard boxes, containers, and corrugated paperboard	384,900
60002	Other paper products	21,500
50003	Paper and paperboard, except boxes and containers	17,221,100
50004	Paper and paperboard products (except paperboard boxes, containers, corrugated paperboard, and	.,,,,
	photographic base papers)	195,600
50012	Paper and paperboard containers, including shipping containers, setup and folding cartons, etc.	566,600
50050	Paper and paperboard products (including album covers, sleeves, etc.)	33,800
50051	Paper and paperboard containers	410,700
50070	Paper and paperboard products, except paperboard boxes, containers, and corrugated paperboard	878,400
50080	Other paper and paperboard products	296,800
0091	Paper and paperboard containers, including shipping sacks and other paper packaging supplies	1,918,100
1102	Woodpulp produced at affiliated or associated milis at other locations	975,200
1104	Woodpulp (purchased market wood pulp)	2,539,100
1105	Woodpulp (air-dry basis)	654,700
51151	Linter pulp	33,300
2100	Paper, all types except light sensitive (including newsprint, book, bond, cover, and coated)	40,600
2101	All other paper, except light sensitive	43,900
2104	Paper (cellulosic wadding)	15,300
2106	Purchased (market) paper	42,600
2108	Paper	6,797,000
2111	Newsprint	186,700
2112	Newsprint	981,800
2113	Newsprint, 30-pound basis weight	3,202,200
52115	Newspaper, other basis weight	629,500
2121	Uncoated paper in sheets	1,269,600
2122	Uncoated paper in rolls	2,530,300
52123	Coated paper in sheets	1,569,000
52124	Coated paper in rolls	2,664,700
52131	Coated paper	1,611,900
52140	Uncoated paper	2,271,000
52163	Carbonless paper	603,300
52164	Carbonizing tissue stock for conversion into one-time carbon paper	16,500
2175	Photographic base papers	308,200
2188	Glassine film	
2190	Building paper and board	19,300
2195	Filter paper	59,700
3105	Paperboard (including news, chip, pasted, tablet, check, binders' board), except for shipping	211,100
53112	Paperboard liners	133,100
4926	Paper (cellulosic wadding)	109,000
5001	Paperboard containers, boxes, and corrugated paperboard	47,200
5020	Paper and paperboard boxes and fiber cans, tubes and drums	7,709,400
5522	Fiber cans, bodies with combinations of fiber and other materials (foil, plastics, etc.) with metal ends	87,400
7000	Bags, except textile, including shipping sacks, multiwall bags, and polyethylene liners	16,500
7004	Other converted paper and paperboard products	30,500
7420	Paper shipping sacks and multiwall bags	38,800
7700	Purchased envelopes	58,400
6101	Wood rosin, turpentine, and other wood chemicals, including tail oli	15,900
6102	Tall oil and rosin	71,500
6104	Wood rosin, turpentine, and other wood chemicals	72,800
36556	Pitch	28,100
39956	Rosin sizing	33,500
.,,,,,,,,		133,100
	Total wood and paper products	96,337,500
	nsus of Manufactures, Bureau of the Census, May 1996.	,000,000,000

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2013 Boadwoven fabrics (picce 'poods') 62.42 (00) 20170 Broadwoven fabrics 265.000 20190 Fabrics, except the fabrics (including cotton, nylon, polyester, rayon, etc.), excluding fabring 42.000 202017 Broadwoven fabrics 28.92.000 202020 Weven uphotetry fabrics (cotton, nylon, polyester, rayon, etc.), excluding fabrics 28.92.000 202031 Broadwoven fabrics 39.000 202032 All other scondary backing (including scint, solid vinyl, etc.) 47.400 202033 All other scondary backing (including scint, solid vinyl, etc.) 49.000 2021101 Royon and acefate broadwoven tobtics (place goods) 18.43.000 221111 Narow Liphotetry fabrics (avon, nylon, polyester, etc.), excluding ficking 50.000 221110 Norow fabrics (12 Inches of lesin width) 902.000 220011 Flore coverings, textile 105.000 221010 Flore coverings, textile 105.000 221011 All other yams 512.400 22101 Spun uron, all tobers 2.457.700 22111 All other yams 512.400	220125	Uncoated broadwoven fabrics for upholstery	387,800
220170 Bioadwoven (abrlista 265.002 220190 Fabrics, except fire fabrics (including cotton, nyton, polyester, rayon, etc.), excluding ficking 28202.402 220200 Woven upholisery fabrics (cotton, nyton, polyester, rayon, etc.), excluding ficking 28202.402 220300 Fabrics, all types 47.002 220300 Fabrics, all types 47.002 220300 Fabrics, all types 186.002 221111 Rayon and acetate broactwoven fabrics (piece good) 134.302 221101 Rayon and acetate broactwoven fabrics (piece good) 134.302 221110 Woven norw tape and webbing 2.100 220101 Hoor coverings, textile 105.002 220101 Hoor coverings, textile 105.002 220101 All other yams 51.2400 220111 All other yams 51.2400 220113 Spun yam, all fibers 2.457.702 220114 All other yams 51.2400 221310 Spun yam, all fibers 2.457.702 22815 Vara, all fibers 2.457.702 228162 Vara, a	220127	Other broadwoven fabrics (piece goods)	904,700
220100 Fabrics, except file tabrics (Including cofton, nylon, polyester and royon) 181.702 220200 Wowen upholstery fabrics (cofton, nylon, polyester and royon, etc.), excluding facking 2.862.802 220201 Bioachworen fabrics, 39000 220201 Fabrics, all types 39000 22011 Tacking, and rates and types 39000 22011 Rayon and acetate broachworen fabrics (piece good) 134.302 22011 Rayon and acetate broachworen fabrics (piece good) 134.302 22011 Narow nalpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22011 Narow rolpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22011 Narow rolpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22011 Narow rolpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22010 Narow rolpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22010 Narow rolpholetary tabrics (picon yook, polyester, etc.), excluding facking 543.802 22011 Narow rol facker 2.400 228101 Soun cayon and ace	220129	Broadwoven fabrics (piece goods)	8,242,100
22220 Weven upholstery fabrics (cotton, nylon, polyester, rayon, etc.), excluding ficking 24202.00 2222101 Broadwoven fabrics 24202.00 222309 Al other secondary backing (including saim, solid vinyl, etc.) 47,400 223309 Fabrics, al hypes 186,400 221101 Rayon and acetate broadwoven fabrics (place good) 184,300 221101 Rayon and acetate broadwoven fabrics (place good) 2100 221110 Woven norw tope and webbing 2100 221011 Narrow fabrics (12 Inches or less in width) 90200 220012 Carpeting 564,500 220013 Al other yama 964,600 220104 Floor covering, textile 246,700 220105 Yarn, al fibers 246,700 220105 Spun rayon and coetate yam 2,000 221147 Al other yama 31,000 221147 Al other yama 24,000 221147 Al other yama 31,000 221147 Al other yama 31,000 221147 Al other yama 31,000	220170		265,600
220211 Biocdwoven fabrics 2802.00 220308 Al other secondary boacking (Including scrim, solid vinyl, etc.) 47.400 220309 Fabrics, all hypes 39.000 2201101 Rayon and acetate broadwoven fabrics (place goods) 184.300 2211101 Dher worven upholetery tubatics (nyon, nyo, polyéster, etc.), excluding ftcking 5.00 2211101 Worven norrow tape and webbing 2.10 2211101 Norwer hothics (12 inches or less in width) 902.000 2210101 Norwer hothics (12 inches or less in width) 902.000 2210101 Norwer hothics (12 inches or less in width) 902.000 2210101 Norwer hothics (12 inches or less in width) 902.000 2210101 Norwer hothics (12 inches or less in width) 902.000 2210101 Norw or foldices 2.400 2210101 Spun yaron and acetate yarn 2.400 2218102 Spun rayon and acetate yarn 2.900 2218103 Spun rayon and acetate yarn 2.900 2218104 Al other yarns 3.800 2218105 Yarn, all fibers 2.900 <td>220190</td> <td>Fabrics, except tire fabrics (including cotton, nylon, polyester, and rayon)</td> <td>181,700</td>	220190	Fabrics, except tire fabrics (including cotton, nylon, polyester, and rayon)	181,700
22038 All other secondary backing (including scirtm, solid vinyl, etc.) 47.402 220390 Factics, all types 39.002 221111 Ticking (mottress) 184.402 2212012 Other woven upholstery fabrics (rayon, nylon, polyiester, etc.), excluding facking 5.00.802 221111 Norrow fabrics (12 inches or less in width) 2002 220101 Ficor coverings, textile 5.45.502 221021 Ficor coverings, textile 5.45.502 220112 Carpenting 5.64.502 220101 Ficor coverings, textile 105.602 221011 All other yams 5.64.502 221011 All other yams 5.64.502 221011 Spun yam, all fibers 5.84.502 221011 Spun yam, all fibers 2.45.7002 22113 Spun rayon and acefrate yam 2.000 22114 All other yams 3.5.002 22114 All other yams 3.5.002 22114 All other yams 3.5.002 22115 Spun rayon and acefrate yam 3.5.002 22116<	220200	Woven upholstery fabrics (cotton, nylon, polyester, rayon, etc.), excluding ticking	42,600
22090 Fabrics, all types 39000 221141 Tacking (northerss) 186.400 221101 Royon and acetabe broadwoven fabrics (please goods) 134.303 221110 Woven upobleting tobrics (royon, nylon, polyester, etc.), excluding taking 500.803 221111 Narrow laboleting tobrics (royon, nylon, polyester, etc.), excluding taking 500.803 224111 Narrow laboleting tobrics (royon, nylon, polyester, etc.), excluding taking 500.803 224111 Narrow laboleting tobrics (royon, nylon, polyester, etc.), excluding taking 500.803 226076 Knit tabrics 54.35.803 54.35.803 227002 Carpeting 105.603 52.403 228101 Yan, all thers 2.467.703 28.457.703 228103 Spun ryon and acetabe yan 2.203 2.203 228104 All other spun yarns 35.803 35.803 228105 Spun ryon and acetabe yan 2.203 2.203 228104 Carated or laminated fabrics, holuding viryl coated 92.703 228607 Coated or laminated fabrics, holuding viryl coated 93.903 <	220211		2,802,400
221111 Ticking (meffres) 186.400 222101 Roym and acetate broadwaven fabrics (please goods) 134.300 222103 Other waven upholatery fabrics (rayon, nylon, polyester etc.), excluding floking 2.000 224110 Woven narrow labrics (12 inches or less in width) 2.000 226074 Knift tobrics 5.435,000 227001 Floor coverings, testile 015,000 228011 All other yans 512,400 228011 All other yans 164,600 228011 Spun, yan, all floers 246,570 228101 Spun, yan, all floers 246,570 228103 Spun rayon and acetate yan 2,000 228104 All other spun yans 35,800 228508 Poastics corted tobrics including vily located 24,300 2295097 Coated or Impregnated waven and nonwaven fabrics, except rubbertzed 24,300 229508 Coated or Impregnated waven and nonwaven fabrics, except rubbertzed 24,300 229509 Coated or Impregnated waven and nonwaven fabrics, except rubbertzed 24,300 229501 Cardage 33,400		All other secondary backing (Including scrim, solid vinyl, etc.)	
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Table 10--Material codes, code descriptions, and the value of materials partially derived from agricultural sources used in manufacturing in 1992

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Table 10--Material codes, code descriptions, and the value of materials partially derived from agricultural sources used in manufacturing in 1992

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ode	Description	Value
		1,000 dollar
4306	Other bulk surface active agents (emulsifiers, wetting agents, penetrants, etc.) (active weight),	
+000	except Intermediates	98,300
4307	Bulk surface active agents other than sulfonated oils and fats	170,600
15100	Paints, varnishes, stains, lacquers, shellacs, Japans, enamels, and allied products	21,400
100	Paints, varnishes, lacquers, stains, shellacs, Japans, enamels, and alled products	3,830,900
15110	Paints, varnishes, stains, lacquers, shellacs, Japans, enamels, and alled products	318,200
36081	Other synthetic organic chemicals (includes acrylonitrile and cellulose acetate)	
36099	Other synthetic organic chemicals (includes activity on the dia cellulose acertains) Other synthetic organic chemicals, not elsewhere classified	2,005,600 3,142,700
36902	Synthetic organic chemicals, except prepared photographic chemicals	
36903	Refrigerant gases and other synthetic organic chemicals	141,300
	Other synthetic organic chemicals, including halogenated hydrocarbons	146,000
36906		780,800
36907	Alcohol solvents (butyl, ethyl, isopropyl, etc.)	99,200
6920	Alcohols, except ethyl (100-percent basis)	188,900
6931 6935	Perfume materials (synthetic organic)	92,700
6935	Plasticizers	148,300
6952	Alcohol, ethyl (pure and denatured)	272,700
6955	Alcohols	101,400
9100	Adhesives and sealants	126,900
9101	Glues and adhesives	2,268,900
19102	Glues and adhesives, including synthetic resin adhesives	38,200
9147	Adhesives and binders (resins)	103,100
9216	High explosives, including PETN, TNT, azides, and fuiminates	14,000
9300	Printing ink	103,200
9301	Printing inks (complete formulations)	2,450,100
9305	Other printing inks, including gravure, flexographic, and screen process	24,300
9311	Letterpress printing Inks, including news	33,700
9323	Lithographic (offset) printing inks	114,900
0099	All other rubber and miscellaneous plastics products	33,700
0115	Plastics and natural or synthetic rubber cut stock and findings	58,300
01100	Tires and inner tubes	271,000
01101	Pneumatic tires and inner tubes	2,823,800
1102	Pneumatic tires	145,200
5201	Rubber and plastics hose and belting	845,100
5202	Hydraulic and pneumatic hose (without fittings), rubber and plastics inner tube type, wire or textile	
5004	reinforced	105,900
5204	Other rubber and plastics hose and belting	6,800
6001	Fabricated rubber products, except gaskets	35,300
6002	Fabricated rubber products, except tires, tubes, hose, beiting, and gaskets	31,100
6902	Fabricated rubber products, except tires, tubes, hose, beiting, and gaskets	977,100
6903	Reclaimed rubber, excluding "mud" and crumb or ground scrap	32,100
6990	Rubber compounds or mixtures	d
6991	Rubber compounds and mixtures purchased (dry rubber solids content)	609,300
6999	All other fabricated rubber products	158,300
69E1	Bare rubber thread	51,500
8602	Foam or high-density rubber cushion secondary backing	13,700
3108	Leather and other material cut stock and findings	107,000
6503	Purchased adhesive devices (hot melt and cold glue) for incorporation into complete finished products	10,400
6921	Fluid power filters (hydraulic and pneumatic)	361,500
5115	Seats (saddles), bicycle	28,700
6101	Ught-sensitive films and papers	536,900
6155	Ught-sensitive films	173,600
6166	Light-sensitive papers (including photographic paper and diffusion transfer paper)	36,400
5523	One-fime carbon paper	55,100
9951	Lamp shades	
9825	New and used rags, clips, etc.	29,800
		24,100

d = Data withheld to avoid disclosing figures for individual companies.

Source: 1992 Census of Manufactures, Bureau of the Census, May 1996.

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Table 11--Material codes, code descriptions, and the value of some raw materials used in manufacturing in 1992 that potentially could come from agricultural and forestry products

Code	Description	Value
		1,000 dollars
190089	Other fluid power products (hydraulic and pneumatic)	470,000
190090	Fluid power products	630,400
286002	Other solvents	149,500
286030	Industrial organic and synthetic organic chemicals, including plasticizers (except synthetic dyes,	
	plgments, and toners)	1,690,000
286905	Oxygenated solvents	58,500
286965	Glycols (ethylene, propylene, etc.) (100-percent basis)	413,400
286971	Ketone and ester solvents (methyl ethyl ketone, ethyl acetate, etc.)	176,400
290003	Lubricating and cutting oils	7,800
	Total potentially agriculturally derived materials	3,596,000

Source: 1992 Census of Manufactures, Bureau of the Census, May 1996.

Table 12--Flaxseed: Acreage planted, harvested, yield, production, and value, United States, 1988-97

Year	Planted	Harvested	Yleld	Production	Value
		······································	Bushels	1,000	
	1,00	0 acres	per acre	busheis	\$1,000
1988	275	226	7.1	1,615	12,200
1989	195	163	7.5	1,215	8,724
1990	260	253	15.1	3,812	20,280
1991	356	342	18.1	6,200	21,845
1992	171	165	19.9	3,288	13,543
1993	206	191	18.2	3,480	14,848
1994	178	171	17.1	2,922	13,590
1995	165	147	15.0	2,211	11,475
1996 1/	96	92	17.4	1,602	10,009
1997 2/	197	189	17.5	3,310	N.A.

N.A. = Not avaialble.

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1/ Preliminary. 2/ Forecast.

Table 13Linseed oil, supply and disappearance, Unite	d States, 1988/89-1997/98
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Year		Supply	_		Disapped	ppearance		
beginning	Beginning						Ending	
June 1	stocks	Production	Total	Exports	Domestic	Total	stocks	
			Mil	llion pounds				
1988/89	41	170	211	12	151	163	48	
1989/90	48	165	213	12	164	176	37	
1990/91	37	176	213	6	167	173	40	
1991/92	40	182	222	12	170	182	40	
1992/93	40	172	212	8	150	158	54	
1993/94	54	174	228	7	159	166	63	
1994/95	63	172	237	24	169	192	45	
1995/96	45	180	228	23	155	178	50	
1996/97 1/	50	180	230	25	155	180	50	
1997/98 2/	50	181	231	20	161	181	50	

N.A. = Not available.

1/ Preliminary. 2/ Forecast.

Table 14--Linseed meal, supply and disappearance, United States, 1988/89-1997/98

Year		Su	ylqq		Disappearance					
beginning .	Beginning							Ending		
June 1	stocks	Production	Imports	Total	Exports	Domestic	Total	stocks		
				1,00	0 short tons-					
1988/89	3	156	11	170	63	102	165	5		
1989/90	5	153	9	167	23	139	162	5		
1990/91	5	162	3	170	41	124	165	5		
1991/92	5	167	0	172	40	127	167	5		
1992/93	5	159	2	166	55	106	161	5		
1993/94	5	160	2	167	49	113	162	5		
1994/95	5	158	5	168	58	105	163	5		
1995/96	5	167	4	176	56	115	171	5		
1996/97 1/	5	167	1	173	53	115	168	5		
1997/98 2/	5	167	1	173	52	116	168	5		

1/ Preliminary. 2/ Forecast.

Table 15-Industrial rapeseed, supply, disappearance, and price, United States, 1988/89-1997/98

Year		Sup	oty			Disappea	rance		Price
beginning June 1	Beginning stocks	Production	imports	Total	Exports 1/	Domestic	Total	Ending stocks	Minn- eapolis
				-Million	pounds				Cents/lb.
1988/89	1,107	15,822	0	16,930	0	16,188	16,188	741	11.1
1989/90	741	19,143	0	19,885	0	19,003	19,003	882	10.5
1990/91	882	22,717	0	23,599	0	22,319	22,319	1,279	10.3
1991/92	1,279	16,146	0	17,425	0	17,158	17,158	267	10.1
1992/93	267	14,455	0	14,722	0	14,522	14,522	200	10.0
1993/94	200	7,442	0	7,642	0	7,592	7,592	50	10.2
1994/95	50	12,596	0	12,646	0	12,609	12,609	37	10,3
1995/96	37	3,012	0	3,049	0	2,935	2,935	114	12.0
1996/97 2/	114	3,234	0	3,348	0	3,317	3,317	31	12.7
1997/98 3/	31	1,920	0	1,951	0	1,922	1,922	29	9.9

1/ Trade data do not distinguish between industrial and edible (canola) exports; therefore all exports were allocated to canola. 2/ Preliminary. 3/ Forecast.

Table 16-Industrial rapeseed oil, supply, disappearance, and price, United States, 1988/89-1997/98

Year		Sup	ply			Disap	pearance		Price
beginning June 1	Beginning stocks	Production	Imports	Total	Exports 1/	Domestic	Total	Ending stocks	Minn- eapolis
				Million	pounds				Cents/lb.
1988/89	2,522	6,858	35,274	44,654	0	40,188	40,188	4,465	25.6
1989/90	4,465	8,184	29,407	42,057	0	37,851	37,851	4,206	27.8
1990/91	4,206	6,960	20,406	31,571	0	28,414	28,414	3,157	24.5
1991/92	3,157	5,705	8,737	17,599	0	15,839	15,839	1,760	22.6
1992/93	1,760	3,707	11,076	16,543	0	14,889	14,889	1,654	24.4
1993/94	1,654	4,140	6,581	12,375	0	11,138	11,138	1,238	29.0
1994/95	1,238	2,346	10,864	14,448	0	13,003	13,003	1,445	29.7
1995/96	1,445	1,201	9,403	12,049	0	10,844	10,844	1,205	28.3
1996/97 2/	1,205	894	10,153	12,252	0	11,027	11,027	1,225	26.8
1997/98 3/	1,225	821	10,903	12,949	0	11,654	11,654	1,295	26.0

1/ Trade data do not distinguish between industrial and edible (canola) exports; therefore all exports were allocated to canola. 2/ Preliminary. 3/ Forecast.

Table 17-Industrial rapeseed meal, supply, disappearance, and price, United States, 1988/89-1997/98

Year		Supp	oly			Disappea	rance		Price
beginning June 1	Beginning stocks	Production	Imports	Total	Exports	Domestic	Total	Ending stocks	Minn- eapolls
				Million	pounds-				Dol./ton
1988/89	212	10,738	0	10,951	0	10,736	10,736	215	160
1989/90	215	12,815	0	13,030	0	12,773	12,773	256	135
1990/91	256	10,897	0	11,153	0	10,935	10,935	218	132
1991/92	218	8,933	0	9,151	0	9,017	9,017	134	137
1992/93	134	5,805	0	5,939	0	5,852	5,852	87	141
1993/94	87	6,483	0	6,570	0	6,472	6,472	97	140
1994/95	97	3,674	0	3,771	0	3,716	3,716	55	118
1995/96	55	1,881	0	1,936	0	1,908	1,908	28	171
1996/97 1/	28	1,400	0	1,429	0	1,408	1,408	21	192
1997/98 2/	21	1,286	0	1,307	0	1,288	1,288	19	147

1/ Preliminary. 2/ Forecast.

Table 18--Total fats and oils consumption, with inedible by category, United States, 1988/89-96

Year 1/	Total consumption	Total edible	Total Inedible	Soap	Paint or vamlsh	Feed	Resins and plastics	Lubricants 2/	Fatty aclds	Other products
					Million	pounds				
1988/89	19,426.7	13,542.0	5,884.7	744.5	180.3	2,079.3	202.3	115.8	2,074.1	488.4
1989/90	20,036.0	14,382.7	5,653.3	792.0	89.5	2,143.5	222.4	157.1	1,944.7	304.1
1991	20,332.1	14,613.0	5,719.1	832.9	106.8	1,974.0	182.6	101.7	2,234.7	286.4
1992	20,751.7	14,847.3	5,904.4	738.8	123.8	2,176.5	165.5	109.4	2,041.2	549.3
1993	21,590.4	15,744.7	5,845.7	748.5	125.2	2,199.5	170.2	116.0	1,897.6	588.7
1994	22,058.7	15,373.8	6,684.9	770.0	115.1	2,272.5	240.7	219.3	2,306.2	761.1
1995	21,157.4	15,056.3	6,101.1	593.8	102.8	2,340.9	210.7	141.9	1,963.6	747.4
1996	20,847.1	14,828.9	6,018.2	468.9	86.6	2,429.5	206.1	124.5	1,920.7	781.9

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991.2/ Includes similar oils.

Source: Bureau of Census.

Table 19--Castor oil consumption, with inedible by category, United States, 1988/89-96

Year 1/	Totai consumption	Total edible	Total Inedible	Soap	Paint or varnish	Feed	Resins and plastics	Lubricants 2/	Fatty acids	Other products
			•		Millon p	ounds				
1988/89	59.2	0.0	59.2	d	4.8	0.0	4.5	6.2	0.0	43.2
1989/90	51.4	0.0	51.4	d	5.9	0.0	4.0	5.7 ·	0.0	d
1991	46.0	0.0	46.0	d	5.9	0.0	4.0	d	0.0	31.7
1992	41.3	0.0	41.3	d	d	0.0	3.3	3.5	0.0	28.4
1993	54.2	0.0	54.2	d	d	0.0	3.5	2.8	0.0	37.8
1994	61.9	0.0	61.9	d	d	0.0	1.9	2.4	0.0	41.0
1995	62.6	0.0	62.6	d	d	0.0	1.2	2.7	0.0	40.4
1996	59.6	0.0	59.6	d	d	0.0	1.3	2.0	0.0	45.8

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991.2/ Includes similar oils.

Source: Bureau of Census.

ry, United States,	1988/89-90
)	ory, United States,

Year 1/	Total consumption	Total edible	Total Inedible	Soap	Paint or varnish	Feed	Resins and plastics	Lubricants 2/	Fatty acids	Other products
					Million	pounds				
1988/89	688.8	211.2	477.6	130.6	1.4	d	14.6	d	121.9	206.6
1989/90	525.2	160.6	364.6	156.9	2.1	0.0	9.7	4.0	134.6	57.3
991	815.6	153.0	662.6	158.0	d	d	2.4	d	426.7	72.8
992	875.4	176.3	699.1	121.7	d	0.0	3.2	d	d	d
993	936.3	218.0	718.3	132.0	d	0.0	3.1	d	d	d
994	969.2	227.1	742.1	146.1	d	0.0	2.3	d	d	d
995	676.1	252.2	625.9	92.3	d	0.0	2.3	0.0	d	d
1996	639.5	191.2	448.3	81.8	d	0.0	2.6	d	d	ď

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 21Inedible tailow consumption, w	/ith inedible by catego	ry, United States, 1988/89-96
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	Total	Total	Total	0	Paint or varnish	Feed	Resins and plastics	Lubricants 2/	Fatty acids	Other
Year 1/	consumption	edible	inedible	Soap	varnisn	reeu	plusiics	Lubricums 2/		products
					Millio	n pounds				
1988/89	3,086.7	0.0	3,086.7	374.9	0.0	1,925.4	0.0	70.3	680.0	36.1
1989/90	3,219.0	0.0	3,219.0	398.4	0.0	1,982.9	0.0	109.0	684.0	44.7
1991	2,949.3	0.0	2,949.3	391.5	0.0	1,748.4	0.0	59.6	700.9	48.9
1992	3,050.1	0.0	3,050.1	334.4	0.0	1,954.4	0.0	63.2	659.0	39.1
1993	3,018.2	0.0	3,018.2	299.6	0.0	1,994.7	0.0	71.5	615.1	37.3
1994	3,189.9	0.0	3,189.9	300.8	0.0	2,101.9	0.0	81.8	634.0	71.4
1995	3,222.8	0.0	3,222.8	263.9	0.0	2,166.5	0.0	89.7	656.9	45.8
1996	3,288.7	0.0	3,288.7	245.2	0.0	2,252.8	0.0	89.2	629.4	72.1

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ includes similar oils.

Source: Bureau of Census,

Table 22-Lard consumption, with inedible by category, United States, 1988/89-96

Year 1/	Total consumption	Total edible	Total inedible	Soap	Paint or varnish	Feed	Resins and plastics	Lubricants 2/	Fatty acids	Other products
					Millon	pounds				
1988/89	389.9	324.5	65.4	0.0	0.0	d	0.0	d	d	d
1989/90	369.3	303.8	65.5	d	0.0	ď	0.0	9.1	d	d
1991	393.1	313.8	79.3	0.0	0.0	d	0.0	5.7	d	4.1
1992	479.7	345.0	134.6	0.0	0.0	d	0.0	10.9	d	13.5
1993	473.3	324.6	149.7	0.0	0.0	d	0.0	8.6	d	28.7
1994	451.9	324.7	127.2	0.0	0.0	0.0	0.0	8.9	0.0	118.3
1995	488.7	364.3	124.4	0.0	0.0	0.0	0.0	27.2	0.0	97.2
1996	447.9	309.7	138.2	0.0	0.0	0.0	0.0	16.9	0.0	121.3

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ includes similar oils.

Source: Bureau of Census.

Table 23-Unseed oil consumption.	, with inedible by category, United States, 1988/89-96

	Total	Total	Total		Paint or		Resins and		Fatty	Other
Year 1/	consumption	edible	inedible	Soap	varnish	Feed	plastics	Lubricants 2/	acids	products
					-Million p	ounds				
988/89	154.9	0.0	154.9	0.0	101.6	0.0	23.1	d	d	28.2
989/90	110.5	0.0	110.5	0.0	30.3	d	52.5	d	d	23.8
1991	95.8	0.0	95.8	0.0	40.7	0.0	41.6	d	d	12.7
992	154.4	0.0	154.4	0.0	69.0	0.0	31.3	d	d	d
1993	125.8	0.0	125.8	0.0	66.9	0.0	25.4	d	d	d
994	124.3	0.0	124.3	0.0	33.0	0.0	50.9	d	d	40.4
995	112.8	0.0	112.8	0.0	30.2	0.0	51.4	0.0	0.0	31.2
996	98.6	0.0	98.6	0.0	18.3	0.0	47.4	0.0	ď	d

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ includes similar olls.

Source: Bureau of Census.

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Table 24-Rapeseed oil consumption, with Inedible by category, United States, 1989/90-96 1/

	Total	Total	Total		Paint or		Resins and		Fatty	Other
Year 2/	consumption	edible	inedible	Soap	varnish	Feed	plastics	Lubricants 3/	acids	products
					Million p	oounds				
1989/90	d	265.0	d	0.0	d	d	d	d	d	d
1991	d	285.1	d	0.0	0.0	d	0.0	d	d	d ·
1992	d	360.5	d	0.0	0.0	d	0.0	d	d	d
1993	d	362.5	d	0.0	0.0	0.0	0.0	d	d	d
1994	d	446.3	d	0.0	0.0	0.0	0.0	d	d	d
1995	d	315.8	d	0.0	0.0	0.0	0.0	0.0	0.0	d
1996	d	317.9	d	0.0	0.0	0.0	0.0	0.0	d	0.0

d = Data withheld to avoid disclosing figures for individual companies.

1/ Includes both canola and industrial rapeseed. 2/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 3/ Includes similar oils.

Source: Bureau of Census.

Table 25-Sovbean oll consun	notion, with Inedible b	by category, United States, 1988/8	9-96

	Total	Total	Total		Paint or		Resins and		Fatty	Other
Year 1/	consumption	edible	inedible	Soap	varnish	Feed	plastics	Lubricants 2/	acids	products
					-Million p	oounds				
988/89	9,917.6	9,635.8	281.8	1.5	34.9	d	123.7	d	d	68.2
989/90	10,808.3	10,536.7	271.6	d	38.2	d	112.4	d	d	52.4
1991	11,267.7	10,966.7	301.0	d	49.2	d	104.7	d	d	40.4
992	11,471.6	11,168.7	302.8	d	43.5	22.3	94.0	5.9	d	69.8
993	12,495.6	12,200.9	294.7	d	38.7	23.7	98.1	5.8	d	65.8
994	12,474.1	12,157.8	316.3	d	47.6	d	119.6	d	d	91.9
995	12,354.0	12,049.3	304.7	d	47.0	d	122.4	0.0	d	99.6
996	12,322.3	12,017.1	305.2	d	50.5	d	121.1	0.0	d	98.0

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils.

Source: Bureau of Census.

Table 26-Tall oll consumption, with Inedible by category, United States, 1988/89-96

	Total	Total	Total		Paint or		Resins and		Fatty	Other				
Year 1/	consumption	edible	Inedible	Soap	varnlsh	Feed	plastics	Lubricants 2/	acids	products				
	-Million pounds-													
1988/89	1,234.3	0.0	1,234.3	8.3	31.8	0.0	18.0	8.1	1,157.3	10.8				
1989/90	1,024.7	0.0	1,024.7	8.4	7.4	0.0	21.7	7.1	969.9	10.2				
1991	940.0	0.0	940.0	3.5	5.4	0.0	11.6	4.0	906.5	9.0				
1992	883.5	0.0	883.5	d	d	0.0	19.4	7.0	841.8	11.4				
1993	891.8	0.0	891.8	d	d	0.0	23.0	6.3	806.9	d				
1994	1,362.5	0.0	1,362.5	d	d	0.0	48.4	6.1	1,025.0	d				
1995	1,357.7	0.0	1,357.7	d	d	0.0	16.0	7.9	908.5	d				
1996	1,179.4	0.0	1,179.4	d	d	0.0	18.6	6.6	930.3	đ				

d = Data withheld to avoid disclosing figures for individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ Includes similar oils. Source: Bureau of Census.

	Total	Total	Total		Paint or		Resins and		Fatty	Other
Year 1/	consumption	edible	inedible	Soap	varnish	Feed	plastics	Lubricants 2/	acids	products
					-Million p	ounds				
1988/89	7.7	0.0	7.7	0.0	3.5	0.0	1.8	0.0	0.0	2.4
1989/90	8.9	0.0	8.9	0.0	2.7	0.0	3.8	0.0	0.0	2.4
1991	6.4	0.0	6.4	0.0	d	d	2.9	0.0	0.0	1.6
1992	7.3	0.0	41.3	d	d	0.0	3.3	3.5	0.0	28.4
1993	11.2	0.0	11.2	d	1.0	0.0	8.6	0.0	0.0	1.6
1994	9.3	0.0	9.3	d	1.2	0.0	6.6	2.4	0.0	1.5
1995	20.2	0.0	20.2	0.0	d	0.0	d	0.0	0.0	12.1
1996	21.3	0.0	21.3	0.0	2.6	0.0	d	0.0	0.0	d

d = Data withheld to avoid disclosing figures for Individual companies.

1/ Crop year runs from October 1 to September 30. Annual totals reported on a calendar year basis beginning in 1991. 2/ includes similar oils.

Source: Bureau of Census.

Table 28--Castor oil prices, raw No. 1, tanks, Brazilian, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents/	pound					
1991	39.30	36.00	36.75	37.00	37.00	36.50	35.50	35.00	35.00	35.40	35.00	37.50
1992	37.50	37.50	37.50	36.00	34.50	34.50	34.50	34.50	34.00	34.00	34.00	34.00
1993	34.00	32.00	32.00	32.00	37.00	37.00	37.00	37.00	38.50	44.00	44.00	44.00
1994	44.00	41.75	41.00	41.00	46.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
1995	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
1996	43.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50	41.50
1997	41.50	41.50	41.50	41.50	41.50	41.50						

Source: Chemical Marketing Reporter.

Table 29--Coconut oil prices, crude, tanks, f.o.b. New York, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents/	pound					
1991	20.22	20.31	20.50	19.38	19.69	21.69	26.19	25.63	25.63	28.50	31.50	32.38
1992	39.33	36.00	34.57	34.75	33.56	32.13	29.63	27.31	27.88	26.94	27.00	25.50
1993	24.94	24.33	23.65	23.25	24.13	24.95	25.35	25.61	24.44	23.88	25.62	33.06
1994	30.30	30.94	29.56	30.19	29.45	30.25	29.56	30.35	30.63	30.60	34.19	33.69
1995	32.50	32.00	31.13	31.00	30.50	35.00	37.90	35.63	35.00	36.00	37.88	33.69
1996	35.80	36.63	36.75	38.75	39.50	42.25	41.80	42.80	47.20	48.00	49.50	50.00
1997	44.20	44.00	42.88	42.50	42.50	35.00						

Source: Chemical Marketing Reporter.

Table 30--Flaxseed, average price received by farmers, United States, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Dollars/b	ushel –					
1991	5.12	4.80	4.90	4.66	4.33	3.98	3.91	3.69	3.55	3.40	3.31	3.46
1992	3.39	3.43	3.52	3.53	3.61	3.67	3.70	3.71	4.12	4.09	4.10	4.21
1993	4.12	4.47	4.54	4.41	4.35	4.44	4.29	3.80	4.25	4.09	4.05	4.18
1994	4.38	4.61	4.64	4.60	4.43	4.25	4.28	4.52	4.54	4.49	4.51	4.71
1995	4.75	4.94	5.15	5.10	4.93	4.25	5.10	4.52	5.11	5.20	5.13	5.03
1996	5.20	5.18	5.28	5.40	6.03	6.06	6.19	5.91	5.89	6.51	6.50	6.68
1997	6.42	6.30	6.66	6.59	6.50	6.27						

Source: USDA, National Agricultural Statistical Service.

Table 31--Industrial rapeseed oil prices, refined, tanks, New York, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Öct	Nov	Dec
						Cents/	pound			·		
1991	82.25	82.25	82.25	82.25	8 2.25	82.25	82.25	82.25	82.25	82.25	82.25	82.25
1992	82.25	82.25	82.25	82.25	82.25	82.25	82.25	82.25	67.25	62.25	62.25	62.25
1993	62.25	62.25	62.25	62.25	55.88	53.75	53.75	53.75	53.75	53.75	53.75	53,75
1994	53.75	53.75	53.75	53.75	53.75	53.75	53.75	53.75	53.75	53.75	53.75	53,75
1995	53.75	53.75	53.75	53.75	53.15	50.75	50.75	50.75	50.75	50.75	50.75	50.75
1996	50.75	50.75	50.75	50.75	50.75	50.75	50.75	50.75	50.75	60.56	90.00	90.00
1997	90.00	90.00	90.00	90.00	90.00	90.00						, 5.00

Source: Chemical Marketing Reporter.

Table 32--Inedible tallow prices, Chicago, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents/	pound					
1991	14.53	12.91	13.63	13.57	12.25	12.36	12.96	14.00	13.50	13.68	13.08	12.50
1992	12.25	12.63	12.68	13.25	13.75	13.98	14.75	15.42	15.25	15.73	16.75	13.52
1993	15.36	14.69	15.24	15.94	15.00	15.11	14.95	14.58	14.54	14.68	14.50	14.94
1994	15.00	15.00	15.22	19.00	15.25	15.63	16.67	18.64	19.50	19.78	20.38	22.48
1995	21.75	18.86	18.00	17.75	17.50	17.89	19.61	19.81	19.53	19.46	19.75	20.08
1996	19.45	17.00	17.03	17.54	19.37	19.50	20.98	22.40	25.98	21.05	19.65	21.63
1997	23.40	22.88	19.35	17.39	18.09	19.64			_0.70	200		21.00

Source: Grain and Feed Marketing News.

Table 33-Jojoba oil prices, 1 metric ton or more, f.o.b. Artzona, 1991-97 1/

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollar	s/pound				_	
1991	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	9.53	7.03	7.03	7.03
1992	7.03	7.03	7.03	7.03	7.03	7.03	7.03	6.12	6.12	5.45	5.45	5.45
1993	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	4.55	4.55	4.55	4.55
1994	4.55	4.55	4.55	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	3.85
1995	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	4.75	4.75	4.75	4.75
1996	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
1997	3.75	3.75	3.75	3.75	3.75	3.75						

1/ Price quotes are the low end of a range.

Source: Chemical Marketing Reporter.

Table 34-Linseed oil prices, tanks, Minneapolis, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents	/pound					
1991	36.00	36.00	36.00	36.00	36.50	36.00	36.00	36.00	36.00	30.00	30.00	30.00
1992	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	32.00	32.00	32.00	32.00
1993	32.00	32.00	32.00	32.00	32.00	28.50	32.00	32.00	32.00	32.00	32.00	32.00
1994	32.00	32.00	32.00	32.00	32.00	32.00	30.31	32.00	32.00	33.50	35.00	35.00
1995	35.00	35.00	35.00	35.00	35.00	. 35.00	35.00	35.50	37.00	37.00	37.00	37.00
1996	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.20	37.50	37.00	33.95	32.19
1997	36.00	36.00	36.00	36.00	36.00	36.00						

Source: Grain and Feed Marketing News.

Table 35--Linseed meal prices, bulk, 34-percent protein, Minneapoils, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Dollo	irs/ton					
1991	131.00	131.25	120.00	121.00	126.25	134.25	133.00	131.25	116.25	128.00	113.75	127.80
1992	122.00	124.00	115.00	117.50	120.00	125.00	123.50	126.25	131.00	141.25	152.50	137.40
1993	136.70	142.50	135.40	125.50	125.00	123.20	133.75	150.00	148.75	147.50	161.80	140.00
1994	140.00	130.00	126.00	125.00	125.00	111.40	114.90	111.60	N.A.	122.50	110.00	95.60
1995	82.40	85.25	90.00	94.40	85.00	85.00	92.50	95.00	112.50	131.00	151.67	143.75
1996	142.00	143.75	155.00	174.00	176.25	178.75	174.00	170.00	167.50	167.50	168.30	170.00
1997	165.00	156.25	163.30	168.00	188.30	171.25						

N.A. = Not available.

Source: Grain and Feed Marketing News.

Table 36-Soybean oil prices, crude, tanks, f.o.b. Decatur, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents	/pound					
1991	21.56	21.66	22.21	21.50	20.23	19.65	19.05	20.23	20.46	19.57	18.78	18.99
1992	18.77	18.88	19.74	19.00	20.15	20.71	18.82	17.87	18.28	18.36	20.10	20.52
1993	21.23	20.72	21.00	21.24	21.15	21.30	24.13	23.46	20.93	23.61	22.98	24.22
1994	29.91	28.85	29.03	27.94	29.48	29.43	27.20	25.02	24.87	24.73	24.75	24.75
1995	29.04	28.15	28.33	26.30	26.00	26.78	27.60	26.56	26.26	26.56	25.48	24.76
1996	23.69	23.65	23.60	25.82	26.54	23.81	24.16	24.03	24.01	22.06	21.99	21.72
1997	22.57	22.60	22.79	23.31	23.85	23.14				22.00	2	21.72

Source: The Wall Street Journal.

Table 37-Tung oil prices, imported, f.o.b. New York, 1991-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Cents	s/pound					
1991	70.00	63.00	61.50	63.00	63.00	61.50	61.00	61.00	61.00	61.00	61.00	70.00
1992	70.00	70.00	70.00	76.00	82.00	130.00	130.00	130.00	132.00	131.50	130.00	130.00
1993	130.00	130.00	130.00	130.00	117.00	130.00	130.00	130.00	107.50	100.00	94.75	93.00
1994	93.00	79.25	78.00	78.00	78.00	78.00	78.00	78.00	78.00	74.40	60.00	60.00
1995	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	48.00
1996	60.00	60.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00
1997	74.00	92.00	92.00	92.00	103.00	103.00				2	2	54.00

Source: Chemical Marketing Reporter.

Table 38Cedarwood oil prices,	drums or	cans, 1993-97
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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollars	/pound					
Chinese												
1993	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1994	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1995	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1996	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
1997	1.78	1.78	1.00	0.95	0.95	0.95	0.95					
Texas												
1993	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
1994	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.70
1995	3.70	3.70	3.70	3.70	3.70	3.70	3.70	4.15	4.15	4.15	4.15	4.15
1996	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4,15	4.15	4.15
1997	4.15	4.15	4.15	4.15	4.15	4.15	4.15					
Virginia												
1993	5.80	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
1994	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
1995	6.50	6.70	6.70	6.70	6.70	6.90	6.90	6.90	6.90	6.90	6.90	6.90
1996	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90
1997	6.90	6.90	6.90	6.90	6.90	6.90	6.90					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 39-Citronella oll prices, drums, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Öct	Nov	Dec
						Dollars	/pound					
Java 1/												
1993	2.53	2.53	2.53	2.53	2.53	3.10	3.10	3.10	3.10	3.60	3.80	4.00
1994	4.00	4.30	4.30	4.15	4.15	4.15	4.15	4.75	4.75	5.00	5.50	6.00
1995	6.00	7.90	8.43	8.43	8.43	8.60	8.60	7.00	6.75	6.00	6.00	6.00
1996	5.00	4.85	4.85	4.13	4.13	4.00	4.00	3.60	3.60	3.60	3.60	3.60
1997	3.10	3.10	3.10	3.10	3.10	3.30	3.30					
Chinese							e					
1993	2.20	2.25	2.35	2.35	2.35	3.13	3.13	3.13	3.13	3.25	3.50	4.00
1994	4.00	4.20	4.20	4.05	4.05	4.05	4.05	4.40	4.40	5.00	5.40	6.10
1995	7.00	7.90	8.35	8.35	8.35	8.60	8.60	7.90	6.80	6.30	5.90	5.90
1996	5.90	5.50	5.50	4.60	4.30	4.15	4.00	3.60	3.60	3.60	3.60	3.60
1997	3.20	2.90	2.90	2.90	2.90	2.90	2.90					

N.A. = Not available. 1/ Beginning August 1995, Sri Lanka, ordinary.

Source: Chemical Marketing Reporter.

Table 40--Eucalyptus oll prices, Chinese, 80 percent, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollars	/pound				-	·
1993	2.88	2.88	2.88	2.88	2.88	2.63	2.63	2.63	2.63	2.63	2.63	2.63
1994	2.63	2.63	2.63	1.90	1.90	1.90	1.90	2.00	2.00	2.00	2.00	2.15
1995	2.38	2.50	2.50	2.80	3.00	3.20	3.20	3.20	2.90	2.90	2.90	2.90
1996	3.00	2.90	2.90	2.70	2.50	2.50	2.50	2.50	2.30	2.30	2.30	2.30
1997	2.40	2.40	2.40	2.40	2.40	2.40	2.25			2.00	2.00	2.00

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 41–Grapefruit oil prices, drums, 1993-97 Year Ian Feb Mar

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollar	s/pound					
Florida												
1993	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
1994	6.00	6.00	6.00	6.75	6.75	6.75	7.50	8.25	8.25	8.25	8.25	8.25
1995	8.25	8.25	8.25	11.25	11.25	11.25	11.25	11.25	15.75	15.75	15.75	17.00
1996	17.00	17.00	17.00	17.00	17.50	17.50	17.50	17.50	17.50	17.50	17.50	17.50
1997	15.25	14.00	14.00	14.00	14.00	12.00	12.00					
Israeli												
1993	N.A.	N.A.	N.A.	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63
1994	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63
1995	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	13.50
1996	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
1997	13.50	13.50	13.50	13.50	13.50	13.50	13.50					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 42--Lemon oil prices, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-						- Dollar	s/pound –					
Argentinean												
1993	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
1994	10.25	11.00	11.00	11.00	11.00	11.00	11.50	11.50	11.50	11.50	11.50	12.25
1995	12.25	12.25	12.25	12.25	12.25	12.25	12.25	12.65	12.65	12.65	12.65	12.65
1996	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65
1997	12.65	12.65	12.65	12.65	12.65	12.65	12.65					
California, U.S. Pl	narmacopelo	a, drums										
1993	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	9.50
1994	9.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50
1995	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	9.00
1996	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.75	9.75	9.75
1997	9.75	9.75	9.75	9.75	9.75	9.75	9.75					
Italian												
1993	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
1994	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
1995	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	15.00
1996	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
1997	15.00	15.00	15.00	15.00	15.00	15.00	15.00					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollar	/pound					
1993	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
1994	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.75	10.75	10.75	10.75	10.75
1995	10.75	10.75	10.75	10.75	10.75	10.75	12.00	13.50	13.50	13.50	13.50	13.50
1996	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
1997	10.90	10.90	10.90	10.90	10.90	10.90	10.90					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 44--d-Limonene prices, drums, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						– Dollars	/pound -					
1993	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
1994	0.78	0.78	0.78	0.83	0.83	0.83	0.83	0.83	0.83	1.05	2.00	2.00
1995	2.00	2.00	2.35	2.35	3.00	3.00	3.00	2.50	2.50	2.50	2.50	2.35
1996	2.10	1.80	1.80	1.50	1.40	1.30	1.25	0.95	0.95	0.80	0.80	0.80
1997	0.65	0.62	0.65	0.65	0.60	0.60	0.60					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 45-Menthol prices, natural, Chinese, drums, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						- Dollar	s/pound					
1993	6.35	5.68	5.68	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.00	5.00
1994	5.00	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	9.50	11.50	12.00
1995	12.00	12.50	11.00	9.75	9.75	9.00	9.00	9.00	9.80	10.63	12.00	12.00
1996	12.00	12.00	12.75	13.00	13.00	13.00	13.00	15.50	17.00	19.00	19.00	19.00
1997	19.00	49.00	49.00	49.00	49.00	49.00	49.00					

N.A. = Not available.

Source: Chemical Marketing Reporter.

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Year	ange oll prices, 19 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Jun	160	14104		indy		/pound	nug	<u> </u>			Dec
						- Donara	/pound					
	stilled, cans, f.o.b											
1993	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
1994	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	2.00	2.00
1995	2.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.88
1996	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.00	1.50	1.50	1.50
1997	1.50	1.50	1.50	1.50	1.50	1.50	1.50					
Florida, drum	s 1/											
1993	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
1994	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	1.10	2.00	2.00
1995	2.00	2.25	2.50	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
1996	2.38	2.13	2.13	1.85	1.70	1.70	1.80	1.05	1.00	0.90	0.90	0.90
1997	0.80	0.80	0.68	0.68	0.68	0.65	0.65					
Brazilian 2/												
1993	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1994	0.75	0.75	0.75	0.78	0.78	0.78	0.78	0.78	0.78	1.10	2.00	2.00
1995	2.00	2.40	2.40	2.55	2.70	2.70	2.70	2.43	2.63	2.63	2.63	2.63
1996	2.25	2.00	2.00	1.60	1.45	1.45	1.40	1.10	1.00	0.90	0.90	0.90
1997	0.80	0.72	0.75	0.75	0.75	0.75	0.75					

N.A. = Not avallable.

1/ Florida, midseason, drums beginning in February 1994. 2/ Pera Brazil, drums, f.o.b. plant beginning in February 1994.

Source: Chemical Marketing Reporter.

Table 47Peppermint of	prices.	1993-97
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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Dollar	s/pound					
Midwest U.S.												
1993	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.50	13.50	13.50
1994	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
1995	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
1996	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
1997	13.50	13.50	13.50	13.50	13.50	13.50	13.50					
Yakima U.S.												
1993	12.30	12.30	12.30	12.30	12.30	12.30	12.30	12.30	12.30	15.00	15.00	15.00
1994	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
1995	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
1996	13.00	13.00	13.00	13.00	13.00	12.50	15.00	15.00	15.00	15.00	15.00	15.00
1997	15.00	15.00	15.00	15.00	15.00	15.00	15.00					
Syntetic, drums,	f.o.b. works											
1993	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	10.00	10.00	10.00	10.00
1994	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
1995	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
1996	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
1997	10.00	10.00	10.00	10.00	10.00	10.00	10.00					

N.A. = Not available.

Source: Chemical Marketing Reporter.

Table 48-Spearmint oil prices, 1993-97

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Dollar	s/pound					
Far West, nat	ive						•					
1993	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	11.00	11.00	11.00
1994	11.00	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
1995	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
1996	13.70	13.70	13.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70	14.70
1997	14.70	14.70	14.70	14.70	14.70	14.70	14.70					14.70
Far West, Sco	otch											
1993	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	12.50	12.50	12.50
1994	12.50	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
1995	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
1996	16.50	16.50	16.50	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
1997	19.00	19.00	19.00	19.00	19.00	19.00	19.00					17.00
Chinese, 80 p	percent											
1993	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
1994	7.50	7.50	7.50	7.50	7.50	5.75	5.75	5.75	5.75	5.75	5.50	6.00
1995	6.00	6.70	6.70	6.70	7.00	7.00	7.00	7.50	8.50	8.50	9.25	9.25
1996	9.25	9.25	9.25	9.25	9.25	9.25	10.15	11.60	13.70	13.10	13.10	13.10
1997	14.50	14.50	14.50	14.50	14.50	14.50	15.20					.5.10

N.A. = Not available.

Source: Chemical Marketing Reporter.

				<u> </u>	annual			
tem	Unit	1991	1992	1993	1994	1995	1996	1997 3/
Starches, sugars, and gums								
Arabic gum, National Formulary, powdered,		•	e /-		4.00		1.05	1.00
barrels	Dollars/pound	1.85	2.67	3.44	4.00	4.00	1.25	1.00
Denatured alcohol, ethyl (ethanol), CD18, CD19,		0.00	0.00	0.00	0.04	2.46	2.68	2.70
tanks, delivered east	Dollars/gallon	2.08	2.02	2.02	2.26	2.40	2.00	2.70
Dextrin, corn, canary dark, paper bags, carload,	Cents/pound	32.00	32.00	32.00	32.00	32.00	32.00	32.00
works	Cerns/pound	02.00	02.00	02.00	02.00	02.00	02.00	02:00
Dextrose, hydrated, commercial, bags, carload, delivered New York	Cents/pound	25.50	25.50	25.50	25.50	25.50	25.50	25.50
Furfural, tanks, f.o.b. plant	Cents/pound	79.00	79.00	79.00	79.00	79.00	79.00	79.00
Guar gum, Industrial, high viscosity, bags,								
carload, f.o.b. shipping point	Cents/pound	35.00	35.00	35.00	39.92	53.33	77.50	85.00
Karaya gum, No. 1, powdered, drums	Dollars/pound	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Locust bean gum, powdered, bags	Dollars/pound	4.75	4.75	4.63	4.71	10.00	16.00	16.00
Pectin, high methoxyl	Dollars/pound	3.30	4.03	4.75	4.75	4.67	4.50	4.50
Sorbitol, U.S. Pharmacopela, regular, 70-percent							o/ 05	00.57
aqueous, drums, carload, f.o.b. shipping point	Cents/pound	33.29	33.00	33.00	33.00	33.00	26.25	32.57
Sucrose acetate isobutyrate, 90-percent, drums,		1 22	1 2 2	1 22	1 22	1.33	1.33	1.33
truckload, delivered	Dollars/pound	1.33	1.33	1.33	1.33	1,00	1.55	1.00
Sucrose octa-acetate, denaturing grade,	Dollars/kilogram	12.50	12.50	12.50	12.50	12.50	12.50	12.50
100-pound drums, f.o.b. works Tragacanth gum, No. 1, ribbons, 100-pound drums	Dollars/pound	36.00	36.00	36.83	41.00	41.00	41.00	41.00
Xanthan gum, food grade, 100-pound drums,	Deliais/pearia	00.00	00.00	00.00	41.00			
f.o.b. works	Dollars/pound	5.65	5.65	5.74	6.20	6.20	6.20	6.20
Fats, oils, and waxes								
Beeswax, refined, bleached, white bricks,	Dollars/pound	3.10	3.12	3.35	3.33	3,31	3.28	2.40
100-pound cartons Butyl stearate, technical, tanks, f.o.b. works	Cents/pound	55.00	55.00	54.75	54.00	54.00	54.00	54.00
Capryl alcohol, secondary, 98-percent, tanks,	Cerna/pound	00.00	00.00	04.70	04.00	04.00	000	•
f.o.b. works	Cents/pound	48.00	48.00	48.00	66.33	68.00	68.00	68.00
Caprylic acid, commercial, pure, tanks	Dollars/pound	0.83	0.91	1.02	1.02	1.02	1.04	1.29
Carnauba wax, Parnahyba, No. 1, yellow, bags,	,							
ton lots	Dollars/pound	2.88	3.23	3.50	3.50	4.88	4.25	4.25
Glycerine, natural, refined, U.S. Pharmacopeia,								
99.7-percent, tanks, delivered	Dollars/pound	0.64	0.57	0.64	1.01	1.08	1.00	0.94
Lecithin, unbleached, bulk, less carload, works	Cents/pound	29.00	28.00	25.75	25.00	25.00	25.00	25.00
Magnesium lauryl sulfate, tanks, f.o.b.	Cents/pound	43.00	43.00	47.75	57.25	57.25	57.25	57.25
Magnesium stearate, bulk	Dollars/pound	1.16	1.16	1.20	1.20	1.20	1.20	1.20
Menhaden oll, bulk, Gulf ports	Cents/pound	13.13 0.67	15.83 1.10	16.54 1.25	16.50 1.17	16.50 1.15	16.50 4/	16.50 0.85
Myristic acid, commercial, pure, truckload 4/ Oleic acid, double distilled (white), tanks	Dollars/pound Cents/pound	54.00	54.00	60.42	61.00	61.00	4/ 61.00	61.00
Sebacic acid, chemically pure, bags, carload,	Cerns/podia	04.00	04.00	00.42	01.00	01.00	01.00	01.00
works	Dollars/pound	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Sodium lauryl sulfate, 30-percent, drums,	b endicy p e an la							2.00
truckload, f.o.b. works	Cents/pound	43.00	43.00	47.75	57.25	57.25	57.25	57.25
Tallow fatty acids, technical, tanks, delivered	Cents/pound	24.88	23.50	23.50	23.50	23.50	23.50	23.50
Animal products Casein, acid precipitated, ground, 30-mesh,								
edible, imported, truckload, c.i.f.	Dollars/pound	2.50	2.52	2.55	2.55	2.55	2.55	2.55
Geigtin, edible, 100 AOAC test, drums, less	Boliaid, pedila				2.00	2.00	2.00	2.00
truckload, delivered	Dollars/pound	1.54	1.68	1.70	1.70	1.70	2.08	2.60
Glue, bone, extracted, green, 85 Jellygrams,								
bags, carload	Cents/pound	95.00	94.00	89.00	89.00	89.00	89.00	89.00
Lanolin, anhydrous, pharmaceutical, 400-pound								
drums, works	Dollars/pound	1.00	1.25	1.25	1.25	1.25	1.25	1.25
Forest products								
a-Pinene prices, technical grade 5/	Dollars/pound	0.43	0.43	0.53	0.60	0.60	5/	2.50
b-Pinene 6/	Dollars/pound	0.55	0.55	6/	1.14	1.14	1.86	2.90
Cellulose acetate, powdered, bags, truckload,				-7				
delivered east	Dollars/pound	1.62	1.94	2.12	2.12	2.12	2.12	2.12
Tall oll, crude, Southeast, tanks, freight equaled	Dollars/ton	159.17	150.83	119.17	121.25	156.67	155.00	150.00
Turpentine prices, crude sulfate, tanks, f.o.b.	•							
Southeast	Dollars/gallon	1.36	0.88	0.68	0.50	0.63	1.12	1.36

See next page for footnotes and definitions.

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1/ Spot and/or list prices from the Chemical Marketing Reporter for selected chemicals and related materials on a New York or other indicated basis. These prices do not represent bid, asked, or actual transaction prices. Variations from these prices may occur for differences in quantity, quality, and location. 2/ Some prices are from the low end of range. 3/ January to July. 4/ The unit of quantity changed from bags to bulk in December 1996. 5/ Price changed from technical grade to 99-percent perfume and flavor grade in September 1996. 6/ Price changed from technical grade to 97-percent perfume and flavor grade in October 1993.

Chemical definitions:

Arabic gum is a dried, water-soluble exudate from the stems of Acacia senegal and related species that is used in pharmaceuticals, adhesives, inks, textile printing, cosmetics, and confectionery and food products.

Denatured ethyl alcohol is made by yeast fermentation of carbohydrates or by hydrolysis of ethylene for solvents, cosmetics, and as an oxygenated gasoline additive.

Dextrin is obtained by heating acidified dry starch for adhesives and paper products.

Dextrose is obtained from cornstarch hydrolysis for use in foods and as a fermentation substrate.

Furfural is obtained by steam distillation of acidified plant materials for polymers and foundry binders.

Guar gum is a water-dispersible hydrocolloid from the seeds of the guar plant that is used in foods and industrial applications such as oilwell fracturing fluids.

Karaya gum is a hydrophilic polysaccharide from Indian trees of the genus Sterculia for use in pharmaceuticals, textile coatings, ice cream and other food products, and adhesives.

Locust bean gum is a polysaccharide plant mucilage from seeds of Ceratonia siliqua used in cosmetics, textiles sizings and finishes, and drilling fluids, and in foods as a stabilizer, thickener, and emulsifier.

Pectin is obtained from citrus fruit rinds for use in jellies, foods, cosmetics, and drugs.

Sorbitol is obtained by hydrogenation of glucose for foods, cosmetics, and polyester polymers.

Sucrose acetate isobutyrate is made by controlled esterification of sucrose with acetic and isobutyric anhydrides for hot-melt coating formulations and extrudable plastics.

Sucrose octa-acetate is used as a plasticizer for cellulose esters and plastics, and in adhesive and coating compounds.

Tragacanth gum is polysaccharides from Astragalus bushes for use in pharmaceutical emulsions, adhesives, leather dressing, textile printing and sizing, dyes, and printing inks.

Xanthan gum is a synthetic, water-soluble polymer made by fermentation of carbohydrates for use in drilling fluids, ore floatation, foods, and pharmaceuticals.

Beeswax is a byproduct of honey production used for cosmetics and candles.

Butyl stearate is obtained by alcoholysis of stearin or esterification of stearic acid with butanol for use in polishes, special lubricants, and coatings and as a plasticizer and emollient in cosmetics and pharmaceuticals.

Capryl alcohol is obtained by distilling sodium ricinoleate, a castor oil derivative, with an excess of sodium hydroxide for solvents, plasticizers, wetting agents, and petroleum additives.

Caprylic acid is a fatty acid obtained from coconut oil for use in synthesizing dyes, drugs, perfumes, antiseptics, and fungicides.

Carnauba wax is a hard commercial wax obtained from leaves of Copernica cerifera for shoe, furniture, and floor polishes; leather finishes; varnishes; electric-insulating compounds; and carbon paper.

Glycerine is a byproduct of splitting or saponification of fats and oils, or made by petrochemical synthesis for cosmetics, food, drugs, and polyurethane polymers.

Lecithin is a byproduct of soy oil extraction used as an emulsifying agent and antioxidant in foods.

Magnesium lauryl sulfate is a surfactant derived from fatty acids for use in plastics, plasticizers, textile applications, and consumer endproduct manufacturing.

Magnesium stearate is a surfactant made from tropical oil fatty acids and inorganic materials for use in lubricant, adhesive, and detergent manufacturing.

Menhaden oil is obtained from menhaden fish for soaps, rubber compounding, printing inks, animal feed, and leather-dressing lubricants.

Myristic acid is obtained by fractional distillation of coconut and other vegetable oils for soaps, cosmetics, and synthesis of esters for flavors and perfumes.

Oleic acid is obtained by fractional crystallization from mixed fatty acids for candles, soaps, and synthesis of other surfactants.

Sebacic acid is made by high-temperature cleavage of castor oil for use as an intermediate chemical in the manufacture of polymers and plasticizers.

Sodium lauryl sulfate is synthesized from fatty acids for use in toothpaste and as a food additive and wetting agent for textiles. Tallow fatty acids are made from splitting tallow for direct use as lubricants or in greases, and for separation into pure fatty acids. Casein is a coagulated and dried milk protein for adhesives and plastics.

Gelatin is water extracted from bones and hides for photographic emulsions and food.

Glue (bone) is obtained by steam treatment and water extraction of bones for glue and mineral flotation processes.

Lanolin is extracted from wool for cosmetics, leather dressing, and lubricants.

a-Pinene and b-Pinene are chemical intermediates fractionated from turpentine that are converted to pine oil (a-Pinene), terpene resins (b-Pinene), and specialty chemicals.

Cellulose acetate is made by reacting cellulose from wood with acetic acid for rayon textiles and cigarette filters.

Tall oil (crude) is a byproduct of paper production (chemical pulping) that is refined into rosin and fatty acids.

Turpentine (crude sulfate) is obtained by steam distillation of pine gum recovered from pulping softwoods (for paper production), which is used for a- and b-pinene.

Table 50--U.S. imports of nonwood fibers, yarns, twine, and cordage, 1992-97

	Unit	1992	1993	1994	1995	1996	Jan-May 1997
Flax, raw or processed, not spun	Metric tons	48,166	47,030	55,059	66,092	81,182	36,818
Jute, raw or processed, not spun	Metric tons	6,246	7,326	7,026	5,876	4,218	730
Flax yarn	Kilograms	690,248	888,656	1,113,918	1,185,977	723,521	445,099
Jute yarn	Kilograms	5,380,531	5,046,250	4,312,393	7,888,502	6,970,594	2,872,173
Abaca, twine, and cordage	Kilograms	5,623,279	6,930,999	7,652,898	6,268,102	5,579,141	2,385,826
Jute, twine, and cordage	Kilograms	6,623,013	7,606,930	15,403,623	11,957,283	5,504,137	1,886,477
Sisal, twine, and cordage	Kilograms	73,056,843	71,595,465	78,704,800	84,234,676	57,740,754	50,553,881

Source: Department of Commerce, Bureau of the Census.

Table 51--U.S. exports of nonwood fibers, yarns, twine, and cordage, 1992-97

item	Unit	1992	1993	1994	1995	1996	Jan-May 1997
Flax, raw or processed, not spun	Metric tons	3,687	121	92	302	174	49
Jute, raw or processed, not spun	Metric tons	1,534	1,202	2,353	2,554	1,386	323
Flax yarn	Kilograms	209,218	363,084	112,330	44,078	106,928	15,521
Jute yarn	Kilograms	591,864	575,383	236,225	101,924	122,841	63,490
lute, twine, and cordage	Kilograms	305,873	297,794	462,136	530,599	537,077	240,886
Sisal, twine, and cordage	Kilograms	1,366,504	1,150,473	519,285	928,515	1,153,697	436,397

Source: Department of Commerce, Bureau of the Census.

Table 52--U.S. Imports of selected vegetable oils, 1992-97

ltem	Unit	1992	1993	1994	1995	1996	Jan-May 1997
Castor oil, crude and refined	Metric tons	34,018	42,214	44,094	44,093	39,938	12,509
Coconut oil, crude and refined	Metric tons	501,466	443,496	441,332	490,650	423,189	227,035
Linseed oli, crude and refined	Metric tons	351	159	426	1,729	2,699	1.111
Jojoba oli and its fractions	Metric tons	235	142	198	332	289	91
lung oil and its fractions	Metric tons	4,995	4,272	5,404	4,427	3,943	2,924

Source: Department of Commerce, Bureau of the Census.

Table 53--U.S. exports of selected vegetable oils, 1992-97

ltem	Unit	1992	1993	1994	1995	1996	Jan-May 1997
Coconut oil, crude and refined	Metric tons	9,448	6,364	8,494	9,089	3,987	2,157
Linseed oil, crude and refined	Metric tons	3,940	3,804	5,402	15,422	14,892	18,130
Jojoba oil and its fractions	Metric tons	209	351	287	151	149	65
Tung oil and its fractions	Metric tons	329	297	176	516	1,190	1,080

Source: Department of Commerce, Bureau of the Census.