

# Statistics of Fats and Oils

## Preliminary Report of Department of Commerce

**T**HE Department of Commerce announces that the factory production of fats and oils (exclusive of refined oil and derivatives) during the three-month period ended March 31, 1928, was as follows: Vegetable oils, 789,210,195 pounds; fish oils, 8,939,097 pounds; animal fats, 718,879,608 pounds; and greases, 106,458,650 pounds; a total of 1,623,487,550 pounds. Of the several kinds of fats and oils covered by this inquiry, the greatest production, 612,931,016 pounds appears for lard. Next in order is cottonseed oil with 434,067,525 pounds; linseed oil with 223,750,569 pounds; tallow with 104,196,488 pounds; coconut oil with 75,934,932 pounds; and corn

oil with 33,552,495 pounds.

The production of refined oils during the period was as follows: Cottonseed, 406,457,026 pounds; coconut, 74,534,522 pounds; peanut, 2,406,030 pounds; corn, 28,798,330 pounds; soya-bean, 2,033,794 pounds; and palm-kernel, 3,693,306 pounds. The quantity of crude oil used in the production of each of these refined oils is included in the figures of crude consumed.

The data for the factory production, factory consumption, imports, exports, and factory and warehouse stocks of fats and oils and for the raw materials used in the production of vegetable oils for the three-month period appear in the following statements:

### PRODUCTION, CONSUMPTION AND STOCKS OF FATS AND OILS

(In some cases, where products were made by a continuous process, the Intermediate products were not reported)

Kind	Factory operations for the quarter ended Mar. 31, 1928		Factory and Warehouse stocks
	Production (pounds)	Consumption (pounds)	Mar. 31, 1928 (pounds)
Vegetable Oils: <sup>1</sup>			
Cottonseed, crude .....	434,067,525	439,414,435	124,729,795
Cottonseed, refined .....	406,457,026	303,478,126	541,639,727
Peanut, virgin and crude .....	5,324,258	3,652,197	3,297,964
Peanut, refined .....	2,406,030	1,697,366	1,764,046
Coconut, or copra, crude .....	75,934,932	148,819,416	99,053,081
Coconut, or copra, refined .....	74,534,522	69,004,697	12,853,129
Corn, crude .....	33,552,495	34,693,802	14,617,770
Corn, refined .....	28,798,330	6,077,636	12,869,151
Soya-bean, crude .....	1,289,082	4,334,469	4,825,709
Soya-bean, refined .....	2,033,794	1,048,926	1,803,983
Olive, edible .....	1,012,886	603,659	4,626,735
Olive, inedible .....	13,094	2,186,291	1,100,085
Sulphur oil, or olive foots .....	.....	8,573,069	2,952,521
Palm-kernal, crude .....	.....	13,167,843	4,766,207
Palm-kernel, refined .....	3,693,306	4,048,656	1,429,098
Rapeseed .....	.....	3,614,166	5,643,931
Linseed .....	223,750,569	112,193,913	237,517,185
Chinese wood or tung .....	.....	22,209,352	17,946,553

Chinese vegetable tallow .....		1,292,455	1,127,320
Castor .....	13,854,098	6,370,133	4,199,330
Palm .....		40,939,714	32,901,591
All other .....	411,156	2,605,870	2,777,729

Fish Oils:<sup>1</sup>

Cod and cold liver .....	346,845	5,074,014	7,114,412
Menhaden .....	56,517	12,091,270	14,608,673
Whale .....	105,000	16,048,030	34,640,883
Herring, including sardine .....	8,341,620	9,363,757	27,735,583
Sperm .....		204,120	3,163,649
All other, including marine animal .....	89,115	6,348,855	885,032

(<sup>1</sup>) The data of oils produced, consumed and on hand by fish oil producers and fish canners were collected by the Bureau of Fisheries.

## Animal Fats:

Lard, Neutral .....	21,016,071	7,129,331	9,294,112
Lard, other edible .....	591,914,955	5,719,097	138,200,803
Tallow, edible .....	10,299,852	7,582,074	3,590,125
Tallow, inedible .....	93,896,636	137,994,707	78,419,902
Neat's-foot oil .....	1,752,104	1,729,961	1,407,410

## Greasas:

White .....	27,414,970	8,837,251	8,345,270
Yellow .....	20,253,638	11,850,898	8,392,086
Brown .....	11,686,768	16,017,520	7,130,305
Bone .....	5,087,318	72,549	1,344,843
Tankage .....	14,689,042	231,206	3,693,073
Garbage or house .....	21,707,772	17,865,996	15,252,120
Wool .....	1,641,056	1,576,716	3,264,344
Recovered .....	643,604	960,934	925,740
All other .....	3,334,482	1,596,436	2,906,976

## Other Products:

Lard compounds and other lard substitutes .....	306,955,624	2,593,119	26,349,509
Hydrogenated oils .....	137,753,296	139,114,966	12,660,211
Stearin, vegetable .....	4,201,260	4,094,253	2,236,833
Stearin, animal edible .....	15,960,655	13,803,410	4,682,222
Stearin, animal, inedible .....	5,274,680	4,849,607	4,700,958
Oleo oil .....	30,457,907	10,923,542	9,136,620
Lard oil .....	6,461,055	4,478,679	4,127,536
Tallow oil .....	2,266,669	1,757,681	1,916,229
Fatty acids .....	28,037,773	30,944,455	5,542,381
Fatty acids, distilled .....	9,511,589	7,710,908	3,937,996
Red oil .....	15,647,940	5,438,529	9,632,687
Stearic acid .....	11,973,869	4,211,719	5,004,826
Glycerin, crude 80% basis .....	34,235,597	33,291,399	19,050,121
Glycerin, dynamite .....	12,369,306	4,656,072	18,561,971
Glycerin, chemically pure .....	14,961,919	2,024,774	6,428,454
Cottonseed foots, 50% basis .....	61,335,078	62,285,393	45,168,662
Cottonseed foots, distilled .....	29,086,548	27,192,938	5,468,199

Other vegetable oil foots .....	23,979,612	20,492,984	1,940,874
Other vegetable oil foots, distilled	201,439	347,385	167,965
Acidulated soap stock .....	19,321,653	11,651,504	16,253,147
Miscellaneous soap stock .....	29,983	139,872	179,209

## RAW MATERIALS USED IN THE MANUFACTURE OF VEGETABLE OILS

Kind	Tons of 2,000 pounds Consumed		Kind	Tons of 2,000 pounds Consumed	
	Jan. 1 to	On hand		Jan. 1 to	On hand
	Mar. 31	Mar. 31		Mar. 31	Mar. 31
Cottonseed .....	1,344,342	261,944	Flaxseed .....	332,777	119,306
Peanuts, hulled ...	5,344	634	Castor beans .....	15,624	1,822
Peanuts, in the hull	4,068	115	Mustard seed .....	266	1,164
Copra .....	62,844	9,744	Soya beans .....	5,139	3,732
Coconuts and skins	850	37	Olives .....	4,527	.....
Corn germs .....	57,407	407	Other kinds .....	789	1,970

## IMPORTS OF OIL SEEDS, QUARTER ENDED MARCH 31, 1928

Kind	Tons	Kind	Tons
Cotton seed .....	112	Poppy seed .....	937
Castor beans .....	11,336	Perilla and sesame seed...	2,148
Copra .....	49,772	Other oil seeds .....	4,002
Flaxseed .....	115,253		

## IMPORTS OF FOREIGN FATS AND OILS, QUARTER ENDED MARCH 31, 1928

Kind	Pounds	Kind	Pounds
Tallow, edible .....	6,722,317	Palm oil .....	26,475,503
Other animal oils and fats edible .....	830,798	Palm-kernel oil .....	9,738,736
Whale oil .....	26,666,528	Sesame oil .....	1,111,085
Cod oil .....	2,184,712	Vegetable tallow .....	1,672,453
Cod-liver oil .....	4,193,648	Vegetable wax .....	927,965
Other fish oils .....	12,209,468	Cornauba wax .....	1,555,994
Wool grease .....	2,336,366	Peanut oil .....	1,851,111
Grease and oils, n. e. s. (value) .....	\$47,036	Rape (colza) oil .....	4,854,952
Olive oil, edible .....	18,961,876	Linseed oil .....	82,212
Chinese wood oil or nut oil	22,345,327	Soya-bean oil .....	5,310,799
Coconut oil .....	75,910,674	Other expressed oils....	828,319
Sulphur oil or olive foots.	7,075,783	Glycerin crude .....	587,158
Other olive oil, inedible...	2,826,941	Glycerin, refined .....	967,069

## EXPORTS OF FOREIGN FATS AND OILS, QUARTER ENDED MARCH 31, 1928

Kind	Pounds	Kind	Pounds
Animal oils and fats, edible	5,116	Palm and palm-kernel oil.	2,087,648
Fish oils .....	140,898	Peanut oil .....	8,266
Other animal oils and fats, inedible .....	217,057	Soya-bean oil .....	109,400
Olive oil, edible .....	43,582	Other expressed oils....	198,080
Chinese wood oil or nut oil	1,213,300	Vegetable wax .....	170,105
Coconut oil .....	2,643,240		

## EXPORTS OF DOMESTIC FATS AND OILS, QUARTER ENDED MARCH 31, 1928

Kind	Pounds	Kind	Pounds
Oleo oil .....	15,034,627	Cottonseed oil, crude.....	23,923,173
Oleo stock .....	1,738,792	Cottonseed oil, refined....	3,241,524
Tallow .....	544,663	Corn oil .....	89,047
Lard .....	230,460,786	Vegetable oil lard com- pounds .....	1,411,716
Lard, neutral .....	8,199,961	Other edible vegetable oils and fats .....	951,936
Lard compounds, contain- ing animal fats.....	1,477,847	Coconut oil .....	5,793,201
Oleo and lard stearin....	816,950	Linseed oil .....	496,059
Neat's-foot oil .....	300,916	Soya-bean oil .....	1,914,434
Other animal oils, inedible	152,385	Vegetable soap stock....	1,792,090
Fish oils .....	284,156	Other expressed oils and fats inedible .....	2,101,826
Grease stearin .....	438,126	Glycerin .....	409,331
Oleic acid, or red oil....	1,353,057		
Stearic acid .....	381,779		
Other animal greases and fats .....	21,970,532		

## Revision Committee Prints New Rules

**T**HE convention report of the Committee on Revision of Methods of Analysis of the American Oil Chemists' Society states that "Our present Methods for 1927-28 have been thus revised and sample copies printed." The complete report is given below because it contains interesting information.

"This Committee (composed of E. R. Barrow, W. H. Irwin and C. B. Cluff, Chairman) was appointed to eliminate from our Methods all reference to Trading Rules, leaving merely a description of procedure, and to simplify the wording where possible. Its duties were merely editorial and no changes in procedure are made by this Committee. The object of this work was to put the Methods into such shape that they could be adopted and recommended by the American Chemical Society for universal use by all chemists concerned with analyses of any kind where these Methods will apply, even though such chemists are not concerned with cotton-

seed products or Interstate Rules.

"Our present Methods for 1927-28 have been thus revised and sample copies printed. Suggestions for improvement will be welcomed. A few changes in procedure will undoubtedly be made at our 1928 meeting, after which it is proposed to have the complete, up-to-date Methods reprinted in pamphlet form, as the official Methods of this Society, omitting the Interstate Rule numbering. They will then be obtainable from our Secretary at a small charge.

"While Rules 260, 261, 262, 263 and 264 in Chapter XII have been printed with the sample copies as a matter of convenience, it is not intended to include these in the final edition, as they relate only to settlements of trades, specifying which refining test to report, etc., and they can be found in the Interstate Rule Book by those who need them.

"It has been suggested that we should also have the 'Standard Methods for the Sampling and Analysis of Commercial Fats and Oils' of the American Chemical Society printed in the pamphlet."