

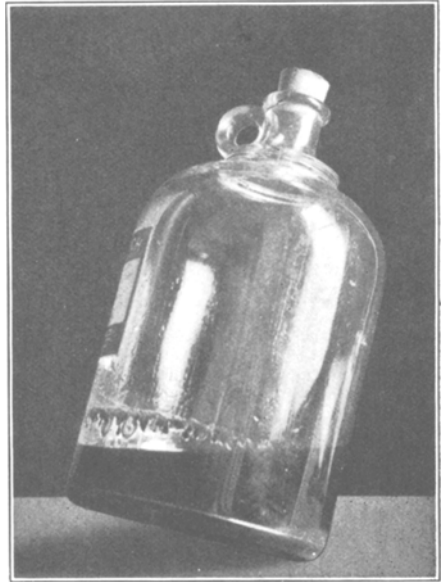
# Some Effects of Atmospheric Oxidation of Cod Liver Oil

A gummy residue, rancidity, acid taste, and destruction of Vitamin A result from storage in contact with air

**I**N order that we might have definite information concerning the results of storing cod liver oil in partially filled containers, a number of flint glass jugs were filled one-quarter full of cod liver oil and stored under a variety of light and temperature conditions. The jugs have never been opened, yet there was sufficient oxygen in the air that they contained to produce easily recognizable oxidized oil. The accompanying photograph clearly shows the gummy oxidized oil attached to the side of the jug. Without doubt, the oil is very rancid and of a decidedly acid taste. The most serious effect of light and air on oil stored under such conditions is the destruction of its vitamin content.

In our October issue, we referred to a paper, "Effect of Light on the Vitamin A Content of Cod Liver Oils," which contained the results of a study made by the research laboratory. If you will recall, the results of that investigation showed that when cod liver oil is stored in clear glass bottles, exposed to the light, the vitamin A content of the oil is more or less destroyed depending upon the length of storage and the intensity of the light in which the oil is stored.

Drummond and Zilva have also shown that when cod liver oil was



*The effect of oxidation in a partially filled glass jug. Note the gummy, oxidized oil on the side of the jug*

stored in partially filled containers, the vitamin content was markedly diminished. If the oil was stored in bottles filled almost to the top, and tightly stoppered, the vitamin potency was preserved for two years.

From time to time, we receive requests to supply our oil in bulk. The above photograph is printed in order that our readers may visualize for themselves the possible consequence of cod liver oil standing in partially filled containers.

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## February Imports of Olives, Coconut Meat, Coconut Oil and Copra, Peanuts and Peanut Oil, and Edible Olive Oil

Countries	Olives in brine		Coconut meat, desiccated, cut, etc.	
	Gallons	Dollars	Pounds	Dollars
France .....	24	181	.....	.....
Greece .....	4,333	2,477	.....	.....
Italy .....	6,150	1,716	.....	.....
Portugal .....	1,512	1,324	.....	.....
Spain .....	482,365	462,924	.....	.....
Canada .....	2	3	.....	.....
Cuba .....	6	12	.....	.....
Peru .....	9	18	.....	.....
Ceylon .....	.....	.....	443,525	37,310
Hongkong .....	28	33	.....	.....
Philippine Islands .....	.....	.....	2,179,794	194,470
<b>Total .....</b>	<b>494,429</b>	<b>468,688</b>	<b>2,623,319</b>	<b>231,780</b>

Countries	Copra		Coconut oil	
	Pounds	Dollars	Pounds	Dollars
Canada .....	38,814	1,825	.....	.....
Jamaica .....	12,600	639	.....	.....
Dominican Republic .....	.....	.....	180	25
Japan, including Chosen ..	447,242	20,088	.....	.....
Philippine Islands .....	22,735,054	1,002,948	16,153,104	1,270,664
British Oceania .....	1,285,902	62,447	.....	.....
French Oceania .....	520,958	21,745	.....	.....
<b>Total .....</b>	<b>25,040,570</b>	<b>1,109,692</b>	<b>16,153,284</b>	<b>1,270,689</b>

### PEANUTS

Countries	Shelled		Not shelled		Peanut oil	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
France .....	.....	.....	.....	.....	57,326	6,392
Germany .....	54,125	4,328	.....	.....	.....	.....
Netherland .....	.....	.....	.....	.....	17,661	1,987
Spain .....	.....	.....	220	26	.....	.....
Canada .....	.....	.....	.....	.....	87,440	8,894
China .....	5,446,745	235,476	374,500	14,626	3,449	400
Hongkong .....	3,652	488	4,400	499	118,250	12,977
Japan, incl. C... ..	1,057	21	24,700	1,234	.....	.....
<b>Total .....</b>	<b>5,505,579</b>	<b>240,313</b>	<b>403,820</b>	<b>16,385</b>	<b>284,126</b>	<b>30,650</b>

### EDIBLE OLIVE OIL

Countries	Packages weighing less than 40 pounds		Other	
	Pounds	Dollars	Pounds	Dollars
France .....	76,769	16,286	567,125	121,187
Italy .....	2,519,477	494,355	739,264	164,580
Spain .....	106,367	21,866	1,286,147	268,996
United Kingdom .....	2,372	532	.....	.....
Canada .....	5,799	655	.....	.....
Syria .....	275	62	.....	.....
<b>Total .....</b>	<b>2,711,059</b>	<b>533,756</b>	<b>2,592,536</b>	<b>554,763</b>