in the ARS budget for the previous budget year. The net result is a $3 million decrease in funding from FY 78 program levels.

Some of the work to be cut has been aimed at finding ways to use renewable resources instead of petroleum in various products. Dr. Warner Linfield's continuing research on soap-based detergents and lime soap dispersing agents, for example, would be ended under the proposed cuts. The process has been commercialized in Japan.

In Peoria, the Cereal Products Laboratory is the lab that developed xanthan gum and "super slurper," a highly absorbent material finding many industrial uses. Another project that would be ended involves developing biodegradable plastic film from natural sources. One firm has developed biodegradable hospital laundry bags. Dirty linen and other possibly germ-laden items are discarded into the bag, it is sealed and tossed unopened into a washing machine, thus avoiding possible contamination in hand transfer from laundry bag to washing machine. •

DECEMBER 1977

Tall Oil Fatty Acids & Statistics

IN THOUSAND POUNDS	2% & OVER ROSIN CONTENT		LESS THAN 2% ROSIN CONTENT	
	DECEMBER	Percent change from NOVEMBER	DECEMBER	Percent change from NOVEMBER
Stock on Hand DECEMBER 1, 1977	9,038	- 34.2	7,147	- 3.1
Production	13,241	+ 12.9	13,123	- 13.7
Purchases & Receipts	0		0	
Disposition Domestic	7,763	- 34.0	10,571	- 21.7
Export	5,082	+ 9.0	1,419	- 26.4
Total Disposition	12,845	- 21.8	11,990	- 22.3
Net Disposition*	12,845	- 21.8	11,990	- 22.3
Total Stock DECEMBER 31, 1977	9,434	+ 4.4	8,280	+ 15.9

*Net — Less purchases & receipts.
Definition: Fatty acids fractionated from crude tall oil having a minimum of 90% fatty acids, not including rosin acids. Primary fractions containing less than 90% fatty acids are classified as distilled tall oils.

Production of animal, vegetable, and marine fatty acids totaled 72.7 million pounds in December 1977, an increase of 900,000 pounds from November. Inclusion of tall oil types raises the overall December production level to 99.1 million pounds, compared with 98.7 million pounds for November, according to figures from the Fatty Acid Producers Council.

Acids in thousand pounds

Month December 1977
Issued Jan. 31, 1978
NUMBER OF MANUFACTURERS REPORTING 16

	FINISHED GOODS INVENTORIES (F) ON 11/30	PRODUCTION (A)	RECEIPTS (B)	DISPOSITION: Captive Consumption (C)	DISPOSITION: Domestic Shipments (D)	DISPOSITION: Shipment for Export (E)	TOTAL DISPOSITION	FINISHED GOODS INVENTORIES (F) ON 12/31
Saturated (SP — Single Pressed; DP — Double Pressed; TP — Triple Pressed)								
STEARIC ACID (40-50% Stearic Content) (1)	8,696	8,799	1,181	2,897	SP 270 DP 2,289 TP 3,642	123	9,221	9,455
HYDROGENATED ANIMAL & VEGETABLE ACIDS — 60 C maximum titer & minimum I.V. 5 (2a)	6,333	7,630	14	47	7,268	40	7,355	6,622
HYDROGENATED ANIMAL & VEGETABLE ACIDS — 57 C minimum titer & maximum I.V. under 5 (2b)	5,756	12,097	1,461	5,494	8,822	---	14,316	4,988
HYDROGENATED ANIMAL & VEGETABLE ACIDS — Minimum Stearic Content of 70% (2c)	2,687	3,679	279	1,378	2,338	2	3,718	2,927
HIGH PALMITIC (Over 60% palmitic I.V. maximum 12) (3)	1,009	1,242	---	511	255	2	768	1,483
HYDROGENATED FISH & MARINE MAMMAL fatty acids (4)	1,091	650	---	45	715	---	760	981
LAURIC-TYPE ACIDS (I.V. minimum 5-Sapon val. minimum 245—including coconut, palm kernel, babassu) (5)	4,971	5,368	225	2,033	3,264	20	5,317	5,247
FRACTIONATED FATTY ACIDS — C_{10} or lower, including capric (6a)	736	817	(2)	121	897	83	1,101	450
FRACTIONATED FATTY ACIDS — Lauric and/or myristic content of 55% or more (6b)	2,659	904	95	509	582	30	1,121	2,537
TOTAL—SATURATED FATTY ACIDS	33,938	41,186	3,253	13,035	30,342	300	43,677	34,700
Unsaturated (ND — Not distilled; SD — Single distilled; MD — Multiple distilled)								
OLEIC ACID (red oil) (7)	10,499	12,403	186	5,720	ND 36 SD 2,998 MD 2,251	569	12,221	10,867
ANIMAL FATTY ACIDS other than oleic (I.V. 36 to 80) (8)	5,897	12,334	1,077	3,640	8,623	1,795	14,058	5,250
VEGETABLE OR MARINE FATTY ACIDS (I.V. maximum 115) (9)	426	11	---	155	7	---	162	275
UNSATURATED FATTY ACIDS (I.V. 116 to 130) (10)	3,006	4,578	263	1,009	2,569	1,231	4,809	3,036
UNSATURATED FATTY ACIDS (I.V. over 130) (11)	2,337	2,165	290	73	2,098	18	2,189	2,603
TOTAL UNSATURATED FATTY ACIDS	22,165	31,489	1,816	10,597	19,229	3,613	33,439	22,031
TOTAL ALL FATTY ACIDS SATURATED & UNSATURATED	56,103	72,675	5,069	23,632	49,571	3,913	77,116	56,731