



84-R11, PART 1

**DFA OF CALIFORNIA** AN ASSOCIATION OF DRIED FRUIT AND TREE NUT PROCESSORS  
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Project No. 84-R11

Cooperator:

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ALMOND BOARD

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Project: Aflatoxin Monitoring Program

Objective: (1) To continue the programs of monitoring aflatoxins in various almond projects which have been in effect since 1973. (2) To continue participation in an aflatoxin analytical check program carried out by the American Oil Chemist Society and the World Health Organization.

Part 1 - Aflatoxin Monitoring

Progress: The monitoring program, which has been continued since 1973 is intended to demonstrate the concern of the almond industry in policing itself and, more importantly, monitoring the yearly trend of removing aflatoxins from edible products intended for human consumption. This monitoring program, as always, remains extremely important to: (1) demonstrate the industry's concern for maintaining a high quality product free of aflatoxins and (2) provide regulatory officials with the opportunity to direct their resources to more likely areas of food contamination.

<u>Type Sample</u>	<u>Samples Collected</u>	<u>Samples Run</u>	<u>Samples Contaminated</u>	<u>Level ppb</u>
Select Nuts *	89	71	1	11
Mfg. Stock *	25	21	1	1.4
Hulls *	11	11	0	
Oil Stock *	0			
Last Years Oil 7/1/84 - 9/1/84	5	5	4	31, 43, 43, 52

\* Note: Survey Not Complete.

The previous table gives the data collected during the 1983-84 year.

Part 2 - Check Sample Program

The Smalley Subcommittee aflatoxin check samples in corn meal, cottonseed meal, and peanut meal, along with the World Health Organization are in the process of being completed. So far the results obtained in the last report from the World Health Organization have been excellent.

	SELECT NUTS		MFG. STOCK		OIL STOCK		HULLS	
	<u># Contaminated</u> <u># Sampled</u>	%	<u># Contaminated</u> <u># Sampled</u>	%	<u># Contaminated</u> <u># Sampled</u>	%	<u># Contaminated</u> <u># Sampled</u>	%
1973	NS	0	11/50	22	NS	NS	NS	NS
1974	0/34	0	7/56	14	22/34*	64.7	NS	NS
1975	NS	NS	13/100	13	16/16	100	NS	NS
1976	NS	NS	7/55	12.7	30/51*	58.8	1/15	6.7
1977	1/100	1	1/40	2.5	10/10	100	0/20	0
1978	5/100	5	2/41	4.9	10/10	100	3/20	15
1979	1/100	1	2/40	5	10/10	100	0/20	0
1980	2/100	2	1/41	2.4	10/10	100	2/21	9.5
1981	3/114	2.6	2/41	4.9	10/10	100	1/14	7.1
1982	4/ 93	4.3	2/41	4.9	6/ 9	67	4/20	20
1983	3/100	3	2/41	4.9	9/10	90	1/21	4.8
1984**	1/ 71	1.4	1/21	4.8			0/11	0

NS = No Samples Taken

\* = Reject Nuts, Not Press Cake Meal

\*\* = Not Completed