

# Sprayer techniques to be discussed

SALISBURY, Md. — Getting maximum return on production dollars is a major concern of today's grain farmers. And the program for the upcoming 1984 Delmarva Corn and Soybean Technology Conference, Feb. 9 from 8:30 a.m. to 3:45 p.m. at the

Wicomico Youth and Civic Center in Salisbury, Md., will hit this topic hard. Most of the morning session will be devoted to a discussion of

sprayers and sprayer techniques—a key management concern, given the cost of chemicals and the losses which can occur when weeds and other pests are not effectively controlled.

"When you're applying minute amounts of chemicals in combination with different additives, you have to know what you're doing," says University of Delaware extension agricultural agent Dave Woodward, a member of the conference planning committee. "Some new materials can be applied in amounts as low as a pint per acre in certain circumstances, so sprayer calibration is very important. Besides being very expensive, the chemicals could damage the plants you're trying to protect if you put on too much."

In some cases a wetting agent can enhance the activity of a pesticide. Dr. Mark Labbee of the Rohm and Haas Company will lead off the morning session with a talk on what a wetting agent is, what it does and how to select the one that will perform best under specific farm conditions.

Extensive work is under way in the development of new equipment for applying pesticides. One of the most promising of these tools is the controlled droplet applicator

or CDA sprayer.

"There have been good reports on this new technology, which permits you to drastically reduce the water applied per acre," Woodward says. "There've also been claims that the amount of chemical used can be reduced because droplets are uniform and do a better job of covering. But," he adds, "results with CDAs haven't been consistent. We hope that Dr. Charles Slack of the University of Kentucky can shed some light on this subject when he shares his research on CDA sprayers."

Another current topic of interest to growers is the possible use of soybean oil instead of water as a carrier for herbicides. Preliminary study by University of Delaware extension crops specialist Frank Webb indicates the oil may do a better job. He will describe this work. If soybean oil proves adaptable for this use, it would provide another market for soybean by-products.


The final talk during the session on spray management will be by University of Maryland extension weed specialist Dr. Ron Ritter. He will discuss the proper use of post-emergence sprays on both corn and soybeans.

# TAXES

## How many "friends" Can you identify?? Foreign Aid Given by the United States for the years 1946 to 1980

Country:		
Afghanistan	\$542,331,000	Iran . . . . . 2,170,628,000
Albania	20,400,000	Iraq . . . . . 95,584,000
Algeria	203,282,000	Ireland . . . . . 146,524,000
Andorra	0	Israel . . . . . 18,490,073,000
Angola	8,898,000	Italy . . . . . 5,884,190,000
Antigua	0	Ivory Coast . . . . . 46,863,000
Argentina	462,826,000	Jamaica . . . . . 192,501,000
Australia	123,586,000	Japan . . . . . 3,950,707,000
Austria	1,256,769,000	Jordan . . . . . 2,417,897,000
Bahamas	301,000	Kenya . . . . . 394,459,000
Bahrain	2,408,000	Kiribati . . . . . 0
Bangladesh	1,503,924,000	Korea (North) . . . . . 0
Barbados	3,324,000	Korea (South) . . . . . 13,625,486,000
Belgium	1,867,491,000	Kuwait . . . . . 0
Belize	10,246,000	Laos . . . . . 2,509,312,000
Benin	48,516,000	Lebanon . . . . . 299,756,000
Bermuda	0	Lesotho . . . . . 78,824,000
Bhutan	816,000	Liberia . . . . . 329,935,000
Bolivia	888,077,000	Libya . . . . . 230,115,000
Botswana	119,040,000	Liechtenstein . . . . . 0
Brazil	3,066,430,000	Luxembourg . . . . . 0
Brunei	0	Macao . . . . . 0
Bulgaria	0	Madagascar . . . . . 21,185,000
Burma	197,000,000	Malawi . . . . . 64,260,000
Burundi	24,742,000	Malaysia . . . . . 237,366,000
Cambodia	0	Maldives . . . . . 0
(Kampuchea)	0	Mali . . . . . 148,938,000
Cameroon	2,169,645,000	Malta . . . . . 84,409,000
Canada	39,713,000	Martinique . . . . . 0
Cape Verde	37,326,000	Mauritania . . . . . 61,283,000
Central African Republic	15,829,000	Mauritius . . . . . 23,532,000
Chad	65,249,000	Mexico . . . . . 341,867,000
Chile	1,388,662,000	Monaco . . . . . 0
China	455,000	Mongolia . . . . . 0
Colombia	1,603,319,000	Morocco . . . . . 1,322,612,000
Comoros	269,000	Mozambique . . . . . 62,038,000
Congo	10,427,000	Namibia . . . . . 0
Cook Islands	0	Nauru . . . . . 0
Costa Rica	271,994,000	Nepal . . . . . 260,924,000
Cuba	20,130,000	Netherlands . . . . . 2,312,211,000
Cyprus	149,259,000	Netherlands Antilles . . . . . 0
Czechoslovakia	193,001,000	New Caledonia . . . . . 0
Denmark	921,970,000	New Zealand . . . . . 3,592,000
Djibouti	4,716,000	Nicaragua . . . . . 370,060,000
Dominican Republic	691,962,000	Niger . . . . . 119,642,000
Ecuador	430,714,000	Nigeria . . . . . 408,414,000
Egypt	7,874,519,000	Norway . . . . . 1,245,549,000
El Salvador	284,571,000	Oman . . . . . 32,841,000
Equatorial Guinea	0	Pakistan . . . . . 5,684,567,000
Ethiopia	667,704,000	Panama . . . . . 439,547,000
Falkland Islands	0	Papua New Guinea . . . . . 322,000
Faroe Islands	0	Paraguay . . . . . 211,767,000
Fiji	0	Peru . . . . . 903,809,000
Finland	57,088,000	Philippines . . . . . 3,131,494,000
France	8,466,639,000	Poland . . . . . 539,300,000
French Antilles and Guana	0	Portugal . . . . . 1,326,246,000
French Polynesia	0	Qatar . . . . . 0
Gabon	18,414,000	Reunion . . . . . 0
The Gambia	22,625,000	Romania . . . . . 22,435,000
German Democratic Republic	800,000	Rwanda . . . . . 29,772,000
Germany, Fed. Rep. of	4,980,422,000	Ryukyu Islands . . . . . 413,725,000
Ghana	391,312,000	St. Christopher-Nevis-Anguilla . . . . . 0
Gibraltar	0	St. Lucia . . . . . 0
Greece	5,542,454,000	St. Vincent & the Grenadines . . . . . 0
Greenland	0	San Marino . . . . . 0
Grenada	0	Sao Tome and Principe . . . . . 566,000
Guadelope	0	Saudi Arabia . . . . . 324,036,000
Guatemala	492,562,000	Senegal . . . . . 163,180,000
Guinea	162,001,000	Seychelles . . . . . 3,151,000
Guinea-Bissau	14,958,000	Sierra Leone . . . . . 82,978,000
Guyana	126,806,000	Singapore . . . . . 21,962,000
Haiti	279,167,000	Solomon Islands . . . . . 0
Honduras	356,690,000	Somalia . . . . . 219,292,000
Hong Kong	43,800,000	South Africa . . . . . 1,300,000
Hungary	32,700,000	Spain . . . . . 2,537,406,000
Iceland	82,184,000	Sri Lanka . . . . . 508,887,000
India	10,268,489,000	Sudan . . . . . 296,238,000
Indonesia	3,188,872,000	Surinam . . . . . 5,831,000
		Swaziland . . . . . 43,641,000
		Sweden . . . . . 109,037,000
		Switzerland . . . . . 0
		Syria . . . . . 586,015,000
		Taiwan . . . . . 6,567,227,000
		Tanzania . . . . . 271,446,000
		Thailand . . . . . 2,407,318,000
		Togo . . . . . 50,152,000
		Tonga . . . . . 0
		Trinidad and Tobago . . . . . 40,864,000
		Tunisia . . . . . 1,071,312,000
		Turkey . . . . . 8,361,345,000
		Tuvalu . . . . . 0
		Uganda . . . . . 53,474,000
		United Arab Emirates . . . . . 0
		United Kingdom . . . . . 8,779,506,000
		Upper Volta . . . . . 139,045,000
		Uruguay . . . . . 248,659,000
		U.S.S.R. . . . . 186,400,000
		Vanuatu . . . . . 0
		Venezuela . . . . . 353,568,000
		Vietnam . . . . . 23,361,456,000
		Wallis and Futuna . . . . . 0
		Western Sahara . . . . . 0
		Western Samoa . . . . . 9,841,000
		Yemen . . . . . 0
		(North) . . . . . 125,000,000
		Yemen (South) . . . . . 4,500,000
		Yugoslavia . . . . . 2,831,962,000
		Zaire . . . . . 784,558,000
		Zambia . . . . . 182,527,000
		Zimbabwe . . . . . 29,905,000
		Central Treaty Organization . . . . . 39,624,000
		Near East & South Asia Regional . . . . . 566,043,000
		West Indies-Caribbean Reg. . . . . 182,143,000
		ROCAP (Reg. Office Central America & Panama) . . . . . 285,116,000
		Latin America Regional . . . . . 667,102,000
		Indochina Assoc. States . . . . . 1,557,067,000
		East Asia Regional . . . . . 356,520,000
		Entente States . . . . . 38,262,000
		Portuguese States in Africa . . . . . 3,350,000
		Central & West Africa Reg. . . . . 114,452,000
		East Africa Regional . . . . . 90,929,000
		Africa Regional . . . . . 466,711,000
		West Berlin . . . . . 131,881,000
		European Regional . . . . . 623,976,000
		Pacific Islands (Trust Territories of the United States) . . . . . 324,151,000
		Oceania Regional . . . . . 40,158,000
		Interregional . . . . . 29,830,000
		Total U.S. foreign aid for the period 1946 through 1980 . . . . . 229,105,000,000
		Total other U.S. loans and grants for the period 1946 through 1980 . . . . . 47,476,000,000
		Total foreign aid for fiscal year 1981 (estimated) . . . . . 9,886,000,000
		Grand Total . . . . . 286,467,000,000

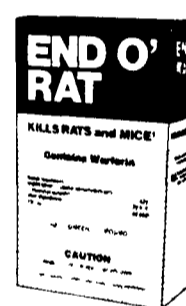
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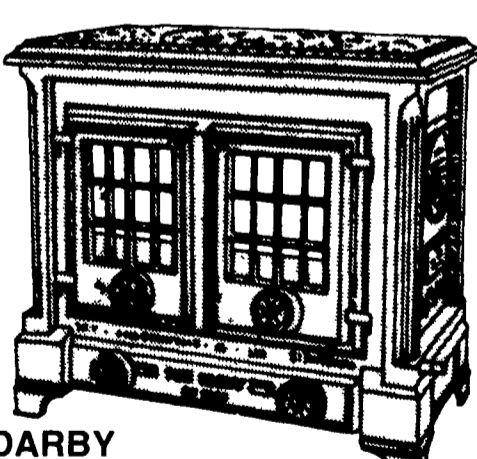
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