

CENTER FOR DISEASE CONTROL

BIOLOGICS

SURVEILLANCE

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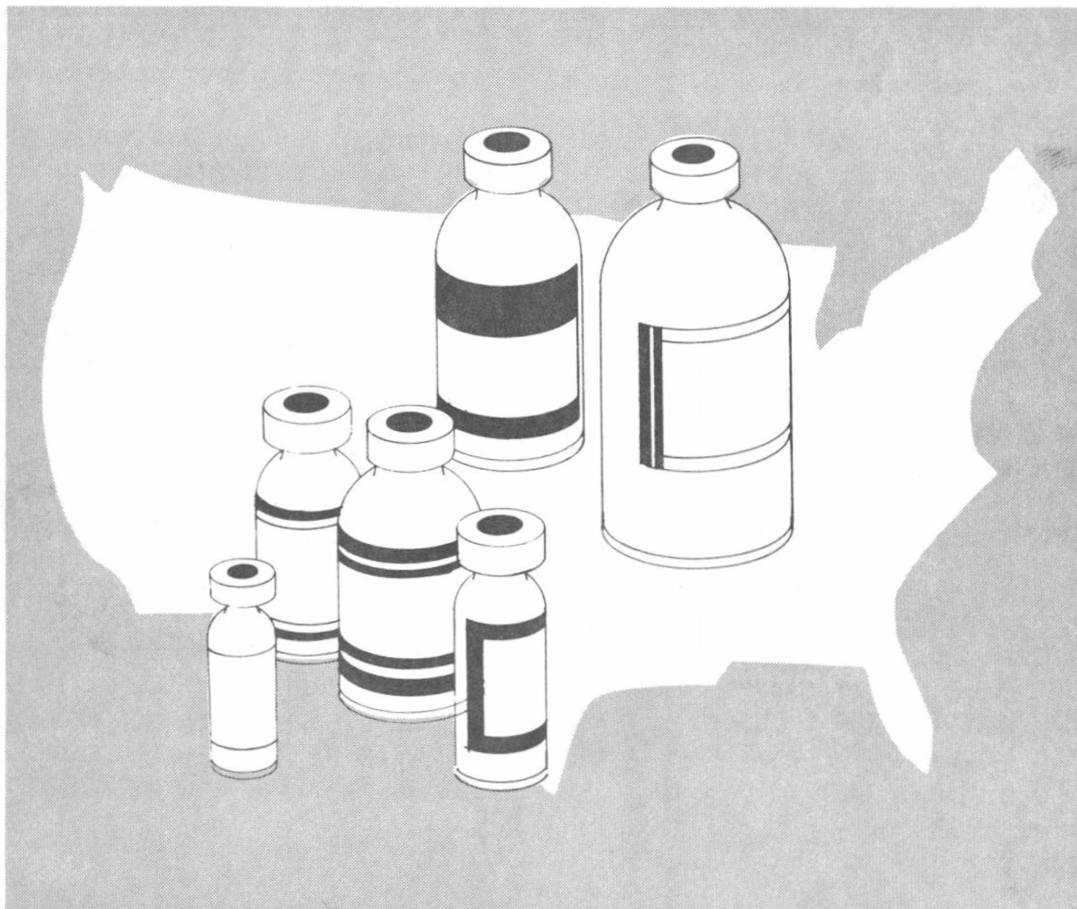
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REPORT NO. 58

JULY, AUGUST, SEPTEMBER,
OCTOBER, NOVEMBER, DECEMBER 1973

ANNUAL SUMMARY 1973



COOPERATING IN THIS PROGRAM ARE THE FOLLOWING:

Armour Pharmaceutical Company

Cutter Laboratories

The Dow Chemical Company

Hyland Laboratories

Lederle Laboratories

Eli Lilly and Company

Massachusetts Department of Public Health

Merck Sharp & Dohme

Merrell-National Laboratories

Michigan Department of Health

Parke, Davis & Company

Pfizer Laboratories

Smith Kline & French Laboratories

E. R. Squibb & Sons, Inc.

Texas State Department of Health

Wyeth Laboratories

CENTER FOR DISEASE CONTROL

David J. Sencer, M.D.
Director

ADVISORY COMMITTEE ON
IMMUNIZATION PRACTICES

H. Bruce Dull, M.D.
Secretary

BUREAU OF STATE SERVICES

J. D. Millar, M.D.
Director

IMMUNIZATION DIVISION

John J. Witte, M.D.
Chief

BIOLOGICS SURVEILLANCE

Donald L. Eddins, Chief
JoDean F. Sanders

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BIOLOGICS SURVEILLANCE

This summary is intended primarily for those concerned with the national use and application of immunizing agents. Although the "Net Distribution" figures are recognized as representing rough approximations only, we believe that a continuing analysis of this kind, interpreted in the light of national and local immunization surveys, will aid in assessing the overall immunization status of the population. It is anticipated that a knowledge of utilization and inventory data will assist in foreseeing possible critical shortages in vaccine supply.

Each major antigen is represented in the form of a line graph showing "Estimated Net Distribution" for the previous year and through the current month of this year. Estimated net distribution represents doses of each vaccine distributed for use during the reporting period and is depicted as gross sales or distribution less recordable returned doses. In addition, specific data is tabulated for each antigen reported during this quarter and is cumulated from the first of the year until present time. Civilian and military data have been combined.

To maintain confidentiality of an individual commercial manufacturer's report for economic and production reasons, current tabulations are available only when at least three producers market and report figures for essentially the same product. This is a basic agreement of the Biologics Surveillance program.

In some instances, where adequate time has elapsed since production and distribution, manufacturers have allowed the data to be released when not all the criteria of confidentiality could be met. Addition of these data to the summaries completes the "natural history" of early patterns of vaccine utilization.

MONTHLY BIOLOGIC SUMMARY FOR JULY 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	794,919	936,130	141,211	1,030,790	1,500,850
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	148,900	208,030	59,130	377,730	837,010
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	1,514,880	1,652,755	137,875	4,708,375	247,395
Tetanus Toxoid with Diphtheria Toxoid (adult)	716,540	740,930	24,390	1,651,600	339,030
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	2,160,095	2,219,418	59,323	4,952,238	2,268,691
Pertussis Vaccine	9,115	9,730	615	39,525	31,911
Poliomyelitis Vaccine, Live, Oral, Trivalent	2,279,955	2,357,445	77,490	7,360,650	
Measles Virus Vaccine, Live, Attenuated*	421,534	463,314	41,780	758,483	2,352,860
Rubella Virus Vaccine, Live*	395,482	428,333	32,851	956,693	
Smallpox Vaccine	483,528	505,936	22,408	362,958	22,740,369
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human (reported in cc's)	469,336	498,169	28,833	2,838,843	674,467
Tetanus Immune Globulin, Human (reported in cc's)	96,345	100,013	3,668	262,890	143,118

*all products containing this antigen

**not shown since fewer than three distributors reported

MONTHLY BIOLOGIC SUMMARY FOR AUGUST 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	7,264,984	7,463,287	198,303	3,308,725	2,312,878
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	178,555	208,325	29,770	508,400	862,995
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	1,224,005	1,354,550	130,545	3,766,220	1,008,158
Tetanus Toxoid with Diphtheria Toxoid (adult)	914,200	932,220	18,020	1,488,130	541,196
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	1,936,830	2,018,606	81,776	4,579,356	1,739,568
Pertussis Vaccine	12,190	12,730	540	105,170	31,911
Poliomyelitis Vaccine, Live, Oral, Trivalent	2,244,690	2,322,210	77,430	5,056,940	
Measles Virus Vaccine, Live, Attenuated*	795,537	842,669	47,132	1,058,845	2,467,360
Rubella Virus Vaccine, Live*	867,382	897,728	30,346	773,343	
Smallpox Vaccine	1,054,738	1,085,254	30,516	1,267,858	26,068,294
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human <i>(reported in cc's)</i>	523,534	537,248	13,714	2,503,196	595,898
Tetanus Immune Globulin, Human <i>(reported in cc's)</i>	82,758	88,804	6,046	195,755	165,139

*all products containing this antigen

**not shown since fewer than three distributors reported

MONTHLY BIOLOGIC SUMMARY FOR SEPTEMBER 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	6,012,783	6,216,007	203,224	2,431,014	542,180
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	213,845	238,970	25,125	551,720	751,840
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	2,370,840	2,492,770	121,930	3,795,145	949,077
Tetanus Toxoid with Diphtheria Toxoid (adult)	778,190	791,790	13,600	1,535,640	269,930
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	1,716,173	1,818,408	102,235	5,222,251	1,333,463
Pertussis Vaccine	2,374	2,974	600	8,610	31,911
Poliomyelitis Vaccine, Live, Oral, Trivalent	2,354,970	2,509,796	154,826	587,675	
Measles Virus Vaccine, Live, Attenuated*	693,043	724,850	31,807	1,555,809	2,587,060
Rubella Virus Vaccine, Live*	843,695	872,439	28,744	699,593	
Smallpox Vaccine	917,096	955,855	38,759	533,862	26,212,434
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human (reported in cc's)	417,212	492,261	75,049	2,668,377	433,064
Tetanus Immune Globulin, Human (reported in cc's)	135,524	137,896	2,372	227,688	43,750

*all products containing this antigen

**not shown since fewer than three distributors reported

MONTHLY BIOLOGIC SUMMARY FOR OCTOBER 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	2,061,346	2,401,042	339,696	66,560	
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	113,680	145,235	31,555	605,785	557,792
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	1,490,345	1,659,220	168,875	3,626,645	
Tetanus Toxoid with Diphtheria Toxoid (adult)	764,670	787,100	22,430	1,152,420	287,160
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	1,433,517	1,496,247	62,730	4,929,578	1,337,202
Pertussis Vaccine	11,215	12,100	885	78,575	26,950
Poliomyelitis Vaccine, Live, Oral, Trivalent	1,874,350	1,953,950	79,600	17,850	
Measles Virus Vaccine, Live, Attenuated*	741,700	780,923	39,223	1,821,851	2,977,860
Rubella Virus Vaccine, Live*	788,428	813,299	24,871	1,572,190	
Smallpox Vaccine	668,372	703,076	34,704	173,234	628,048
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human (reported in cc's)	1,003,981	1,019,115	15,134	1,965,182	445,806
Tetanus Immune Globulin, Human (reported in cc's)	145,106	148,112	3,006	155,381	278,887

*all products containing this antigen

**not shown since fewer than three distributors reported

MONTHLY BIOLOGIC SUMMARY FOR NOVEMBER 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	3,181,931	3,462,140	280,209	702,090	
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	87,665	104,750	17,085	580,420	504,530
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	2,677,240	2,882,470	205,230	3,007,495	923,555
Tetanus Toxoid with Diphtheria Toxoid (adult)	1,468,060	1,516,810	48,750	1,569,700	501,168
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	2,522,285	2,688,386	166,101	3,650,460	1,201,175
Pertussis Vaccine	9,785	11,270	1,485	66,540	26,950
Poliomyelitis Vaccine, Live, Oral, Trivalent	1,838,745	1,896,515	57,770	1,482,615	
Measles Virus Vaccine, Live, Attenuated*	586,665	670,174	83,509	4,002,172	1,916,400
Rubella Virus Vaccine, Live*	647,188	676,931	29,743	693,634	
Smallpox Vaccine	1,273,511	1,350,439	76,928	557,035	22,980,833
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human <i>(reported in cc's)</i>	719,882	728,865	8,983	2,215,737	287,200
Tetanus Immune Globulin, Human <i>(reported in cc's)</i>	81,018	83,661	2,643	376,907	26,427

*all products containing this antigen

**not shown since fewer than three distributors reported

MONTHLY BIOLOGIC SUMMARY FOR DECEMBER 1973

PRODUCT DESCRIPTION	NET NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	GROSS NUMBER OF DOSES SOLD OR DISTRIBUTED THIS MONTH	NUMBER OF DOSES RETURNED DURING MONTH	NUMBER OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	NUMBER OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
Influenza Virus Vaccine, Bivalent	-55,197	223,590	278,787	629,130	
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	62,600	75,710	13,110	546,310	529,022
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	998,235	1,097,165	98,930	2,836,705	1,947,502
Tetanus Toxoid with Diphtheria Toxoid (adult)	347,630	371,290	23,660	1,591,650	636,661
Diphtheria Toxoid	**	**	**	**	**
Tetanus Toxoid	857,969	907,257	49,288	3,187,837	1,296,248
Pertussis Vaccine	12,085	14,935	2,850	51,605	26,950
Poliomyelitis Vaccine, Live, Oral, Trivalent	1,505,355	1,582,175	76,820	966,950	
Measles Virus Vaccine, Live, Attenuated*	437,098	473,145	36,047	2,479,221	
Rubella Virus Vaccine, Live*	499,532	525,638	26,106	584,352	
Smallpox Vaccine	604,323	653,339	49,016	325,594	22,279,883
Rabies Vaccine	**	**	**	**	**
Immune Serum Globulin, Human <i>(reported in cc's)</i>	647,609	659,665	12,056	2,234,509	389,306
Tetanus Immune Globulin, Human <i>(reported in cc's)</i>	163,749	173,578	9,829	887,430	232,137

*all products containing this antigen

**not shown since fewer than three distributors reported

NET DISTRIBUTION OF BIOLOGICS

UNITED STATES

1973

Product Description	Net Doses Distributed	
	July-December	January-December
Influenza Virus Vaccine, Bivalent	19,260,768	19,917,851
Diphtheria Toxoid with Tetanus Toxoid (pediatric)	805,245	1,311,804
Diphtheria and Tetanus Toxoids with Pertussis Vaccine	10,275,545	19,617,901
Tetanus Toxoid with Diphtheria Toxoid (adult)	4,989,290	8,159,350
Diphtheria Toxoid	**	**
Tetanus Toxoid	10,626,869	18,208,268
Pertussis Vaccine	56,764	146,889
Poliomyelitis Vaccine, Live, Oral, Trivalent	12,098,065	24,866,411
Measles Virus Vaccine, Live, Attenuated*	3,675,577	7,406,078
Rubella Virus Vaccine, Live*	4,041,707	7,805,092
Smallpox Vaccine	5,001,568	8,250,872
Rabies Vaccine	**	**
Immune Serum Globulin, Human <i>(reported in cc's)</i>	3,781,554	7,553,735
Tetanus Immune Globulin, Human <i>(reported in cc's)</i>	704,500	1,144,070

**all products containing this antigen*

***not shown since fewer than three distributors reported*

**TOTAL NET DOSES DISTRIBUTED
UNITED STATES, 1969-1973**

BIOLOGICS	1969	1970	1971	1972	1973
Diphtheria Toxoid	61,055	10,374	**	**	**
Pertussis Vaccine	130,285	116,785	78,735	108,185	146,889
Tetanus Toxoid	19,707,991	17,526,774	16,612,042	15,878,771	18,208,268
Poliovirus Vaccine, Live, Oral, Type 1	425,054	254,439	163,025	67,028	**
Poliovirus Vaccine, Live, Oral, Type 2	363,704	244,570	145,780	70,020	**
Poliovirus Vaccine, Live, Oral, Type 3	381,205	252,145	155,970	55,315	**
Poliovirus Vaccine, Live, Oral, Trivalent	22,535,830	25,836,701	25,465,160	24,747,732	24,866,411
Measles Virus Vaccine, Live, Attenuated ⁽¹⁾	4,928,438	4,546,922	8,311,345	8,278,608	7,406,078
Rubella Virus Vaccine, Live ⁽¹⁾	-	29,324,972 ⁽²⁾	8,581,655	7,937,889	7,805,092
Smallpox Vaccine	15,836,319	16,938,242	14,909,254	5,679,110	8,250,872
Rabies Vaccine	479,142	610,383	391,641	475,758	**
Influenza Virus Vaccine, Bivalent	19,532,576	18,588,050	16,345,706	15,836,260	19,917,851
Immune Serum Globulin (Human) (cc's)	6,272,859	5,938,062	7,880,054	7,403,658	7,553,735
Tetanus Immune Globulin (Human) (cc's)	781,421	823,471	882,398	997,731	1,144,070
Diphtheria and Tetanus Toxoids Combined	2,110,604	2,071,673	1,696,167	1,373,465	1,311,804
Diphtheria and Tetanus Toxoids and Pertussis Vaccine Combined	18,828,532	19,490,108	19,464,461	17,959,790	19,617,901
Tetanus and Diphtheria Toxoids Combined (for adult use)	7,208,550	8,780,988	7,045,601	6,229,270	8,159,350

**Not shown since fewer than three distributors reported

⁽¹⁾All products containing this vaccine

⁽²⁾From licensure through 12/70

FIGURE 1
DIPHTHERIA TOXOID, PERTUSSIS VACCINE, AND TETANUS TOXOID
NET DISTRIBUTION BY MONTH – UNITED STATES

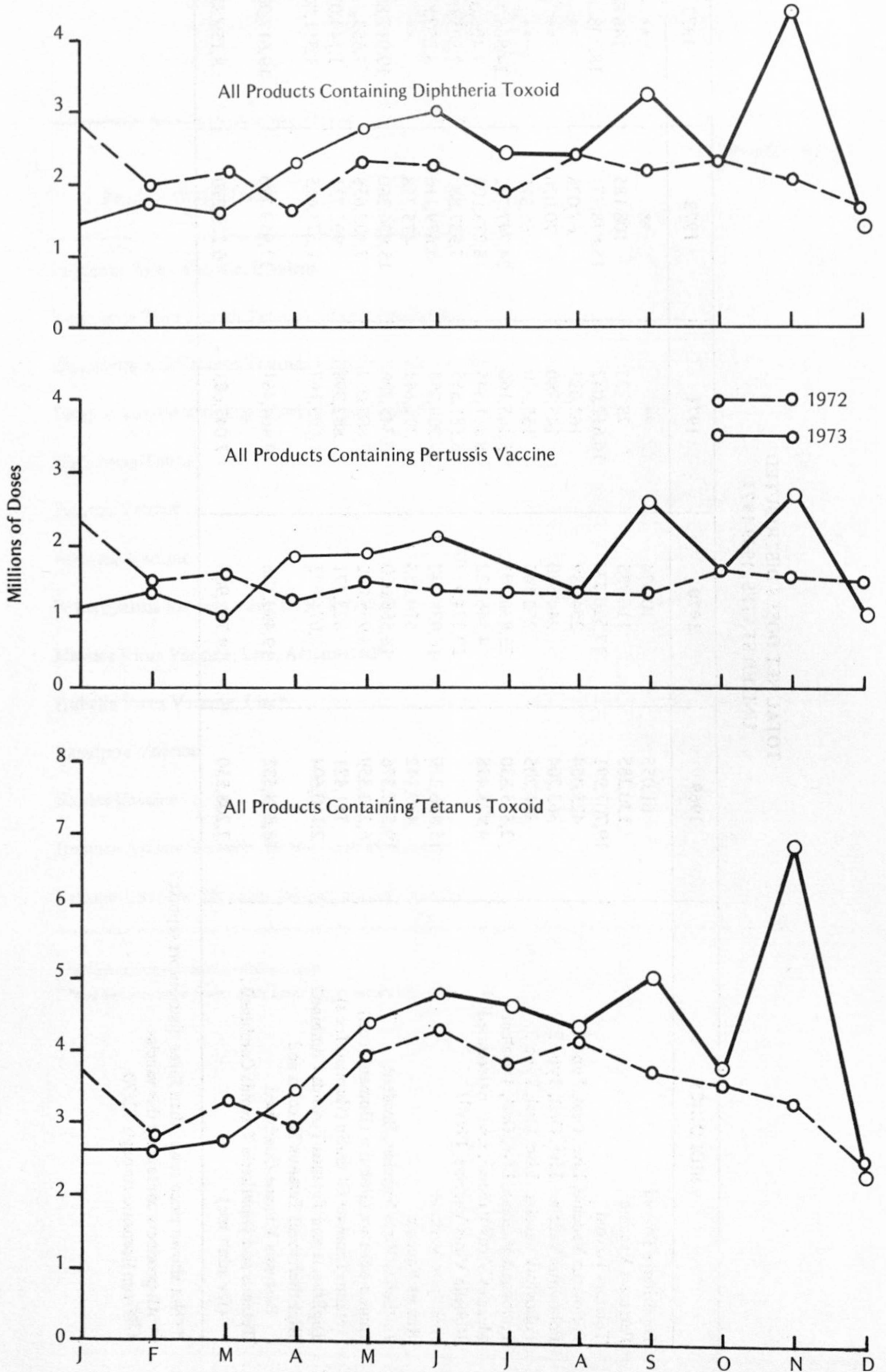


FIGURE 2
POLIOVIRUS VACCINE, LIVE, ORAL, TRIVALENT
NET DISTRIBUTION BY MONTH – UNITED STATES

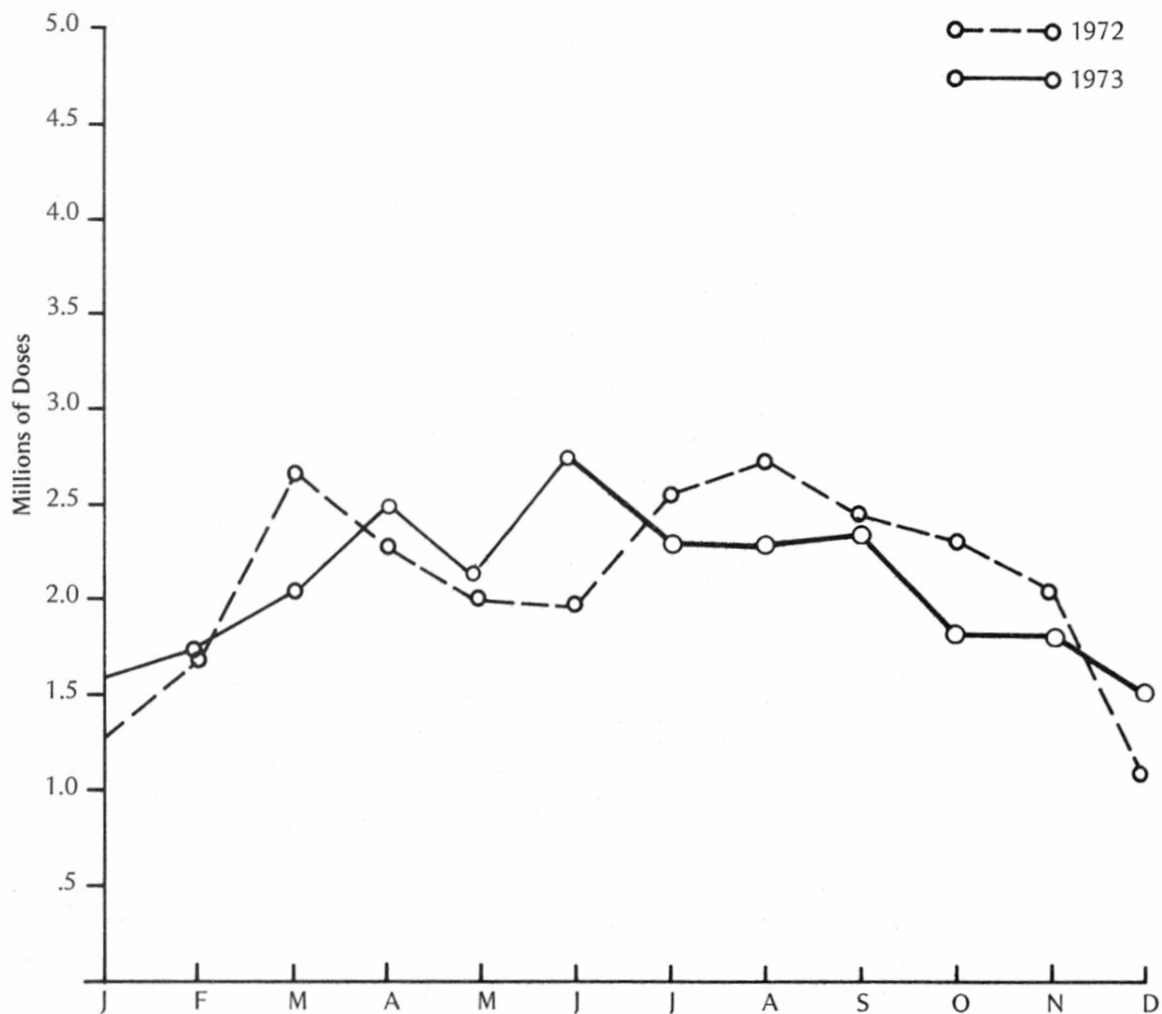


FIGURE 3
LIVE ATTENUATED MEASLES VACCINE*
NET DISTRIBUTION BY MONTH – UNITED STATES

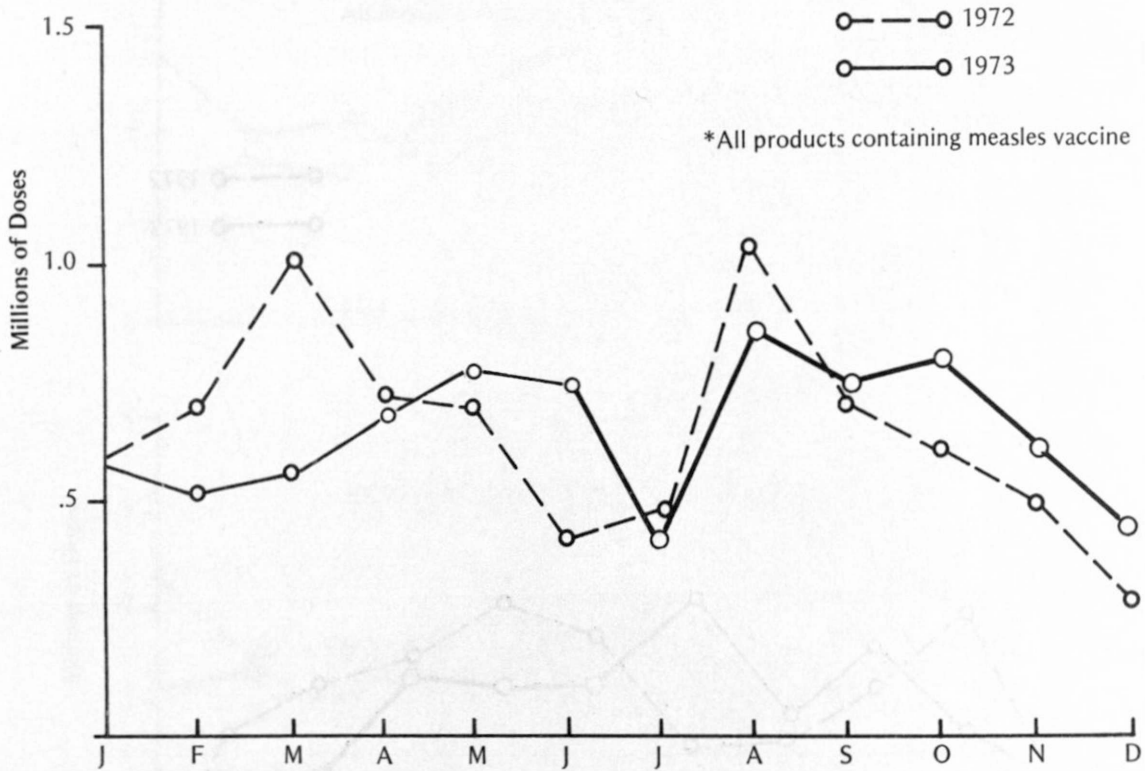


FIGURE 4
LIVE RUBELLA VACCINE*
NET DISTRIBUTION BY MONTH – UNITED STATES

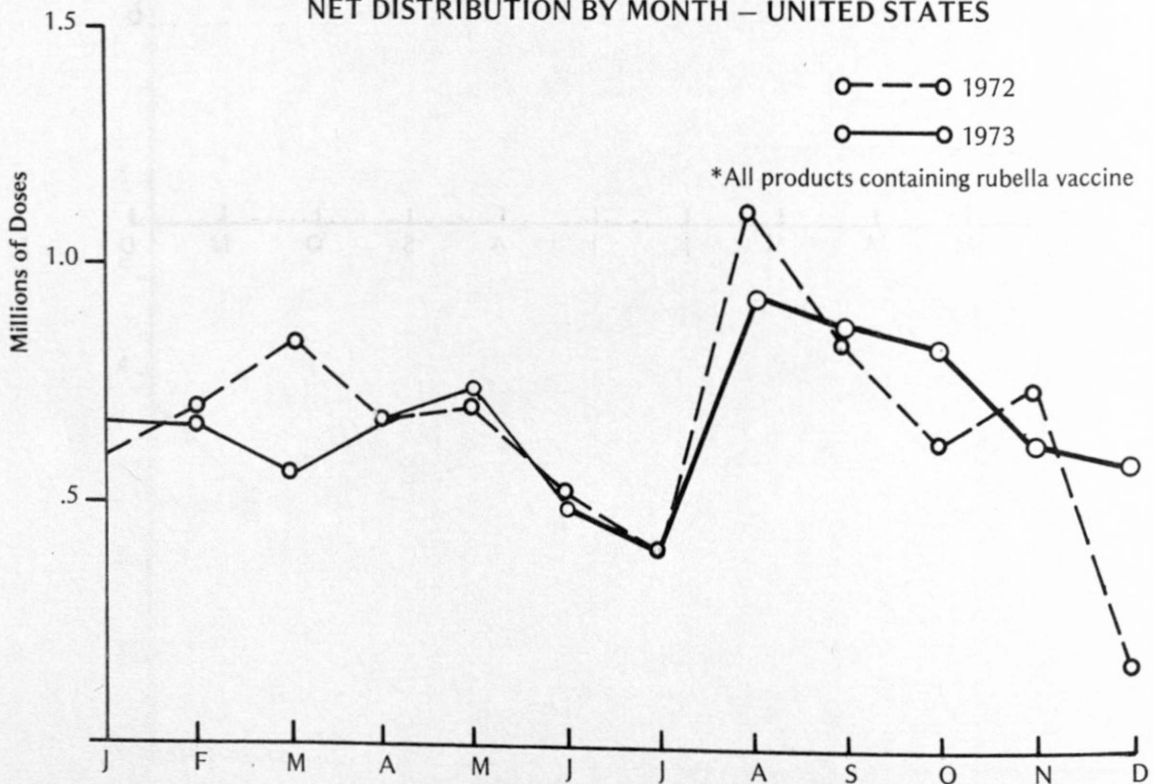


FIGURE 5
SMALLPOX VACCINE
NET DISTRIBUTION BY MONTH – UNITED STATES

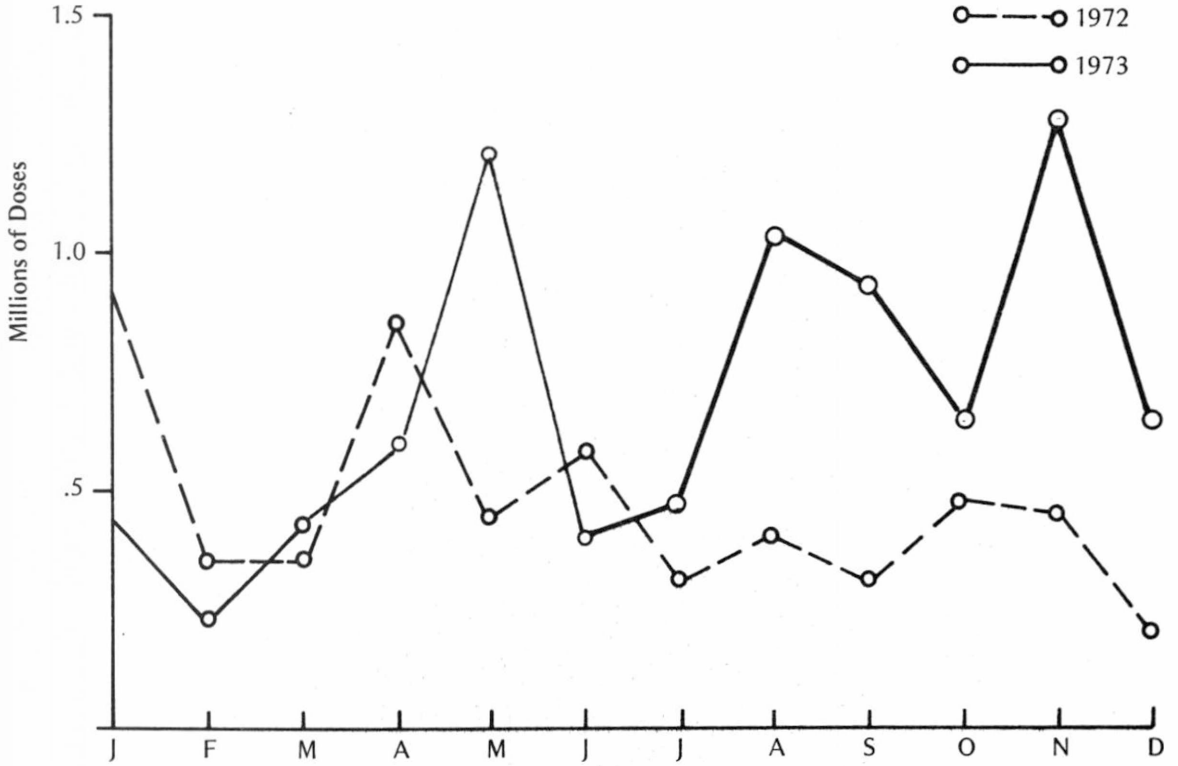


FIGURE 6
BIVALENT INFLUENZA VIRUS VACCINE
NET DISTRIBUTION BY MONTH – UNITED STATES

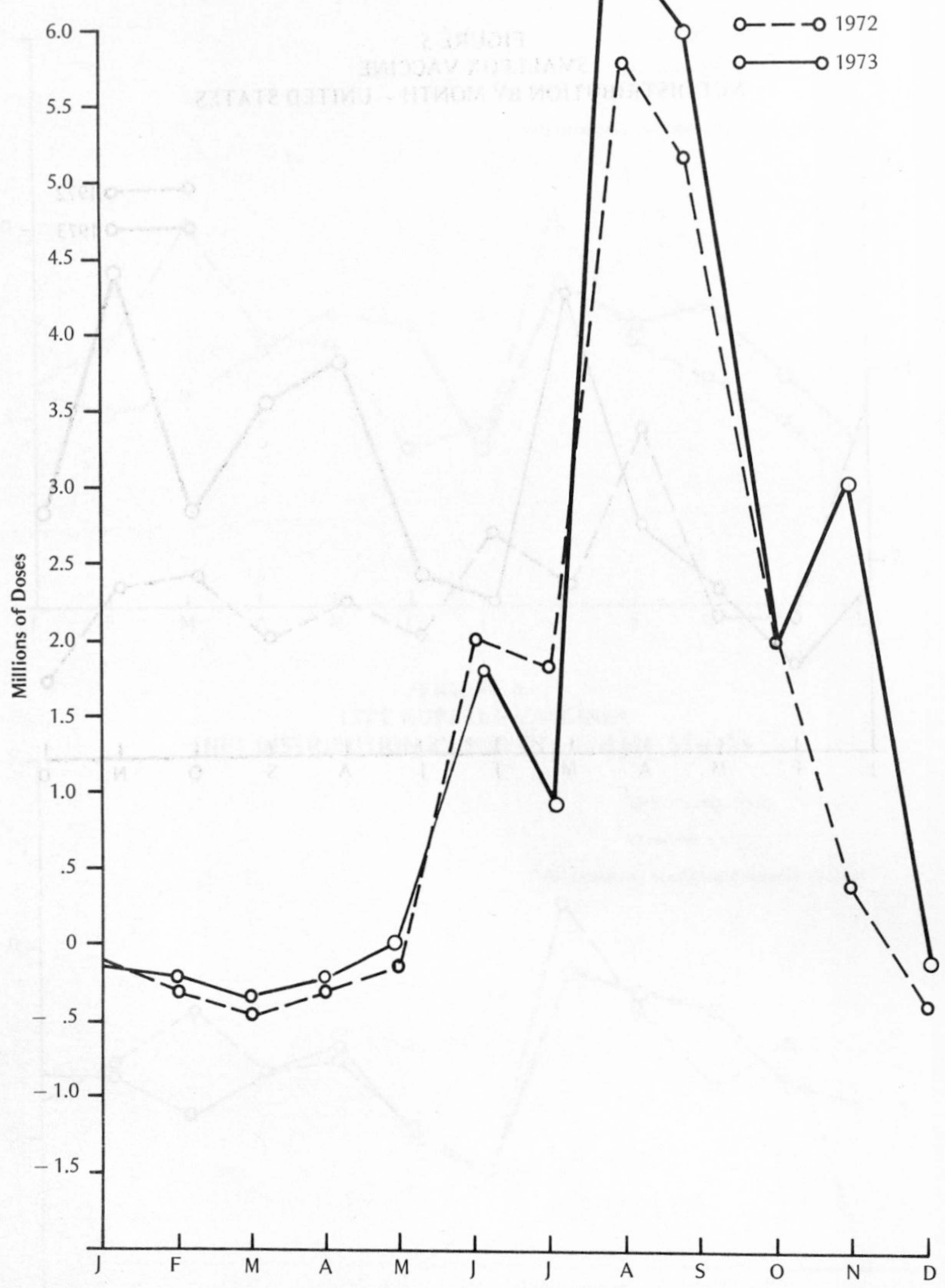


FIGURE 7
 IMMUNE SERUM GLOBULIN (HUMAN)
 NET DISTRIBUTION BY MONTH - UNITED STATES

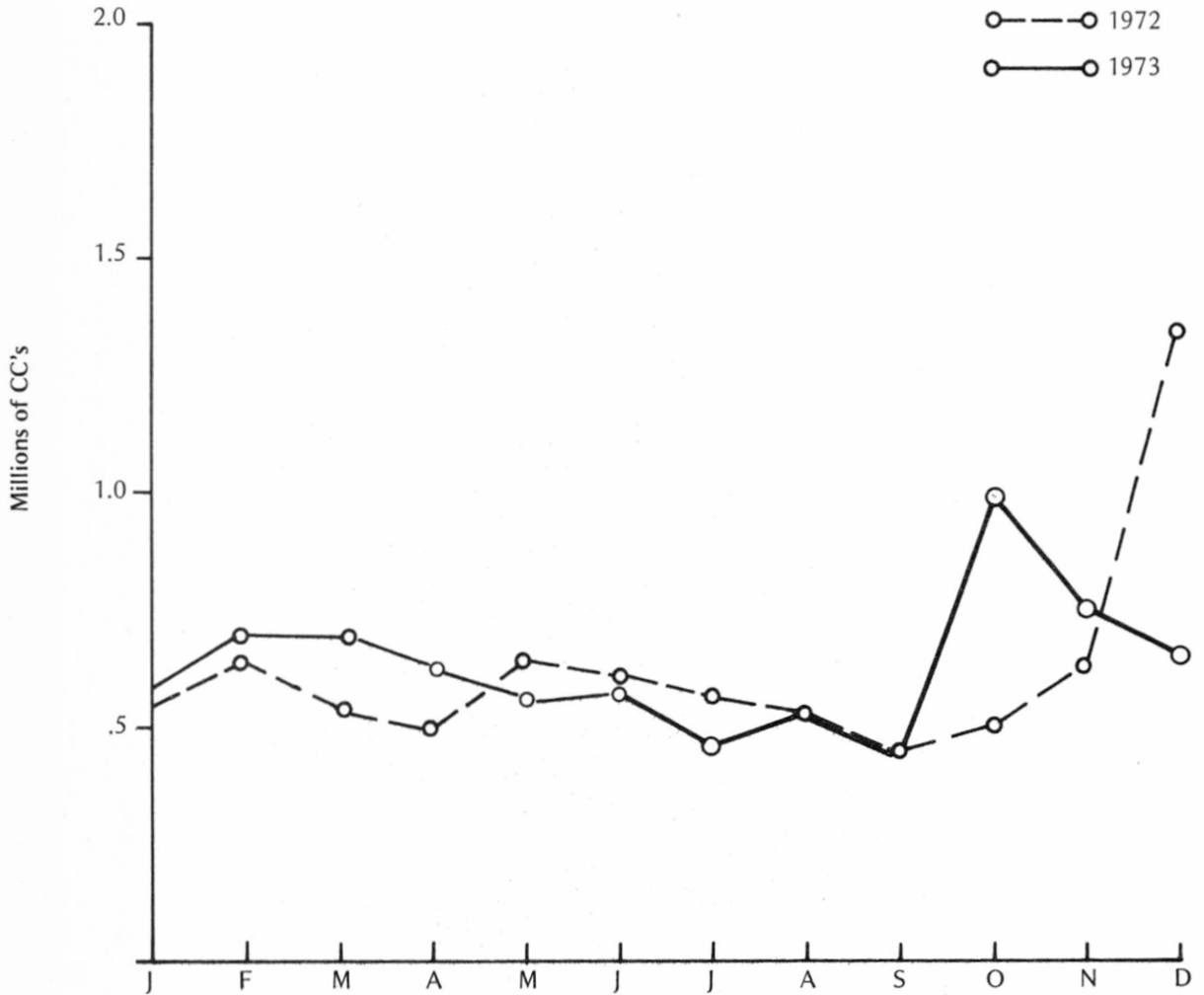


FIGURE 8
 TETANUS IMMUNE GLOBULIN
 NET DISTRIBUTION BY MONTH - UNITED STATES

