

CENTER FOR DISEASE CONTROL

BIOLOGICS

SURVEILLANCE

REPORT NO. 46

JULY, AUGUST, SEPTEMBER 1970



COOPERATING IN THIS PROGRAM ARE THE FOLLOWING:

Cutter Laboratories

The Dow Chemical Company

Hyland Laboratories

Illinois Department of Public Health

Lederle Laboratories

Eli Lilly and Company

Massachusetts Department of Public Health

Merck Sharp & Dohme

Michigan Department of Health

The National Drug Company

Parke, Davis & Company

Pfizer Laboratories

The Philadelphia Blood Center

Philips Roxane, Inc.

Smith Kline & French Laboratories

E. R. Squibb & Sons, Inc.

Texas State Department of Health

Wyeth Laboratories

Center for Disease Control

Advisory Committee on
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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 above month in 1970. 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 1970

LINE NO.	PRODUCT DESCRIPTION	A* GROSS NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	D NO. OF DOSES RETURNED DURING MONTH	E* NET NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	B* NO. OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	C NO. OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
1-	Influenza Virus Vaccine (if applicable, specify type) Monovalent	**	**	**	**	**
	Bivalent	2,921,565	66,565	2,855,000	5,929,950	883,790
	Polyvalent	**	**	**	**	**
2.	Diphtheria Toxoid with Tetanus Toxoid (Pediatric)	265,748	48,845	216,903	1,200,881	521,823
3.	Diphtheria and Tetanus Toxoids with Pertussis Vaccine	1,824,694	66,040	1,758,654	2,232,966	839,830
4.	Tetanus Toxoid with Diphtheria Toxoid (Adult)	526,630	15,610	511,020	1,956,110	474,232
5.	Diphtheria Toxoid	**	**	**	**	**
6.	Tetanus Toxoid	2,296,450	84,790	2,211,660	5,614,019	874,970
7.	Pertussis Vaccine	4,930	3,630	1,300	12,705	
8.	Diphtheria-Tetanus Toxoids and Poliomyelitis Vaccine Combined: Diphtheria-Tetanus Toxoids and Pertussis and Poliomyelitis Vaccines Combined	**	**	**	**	**
9.	Poliomyelitis Vaccine (Inactivated)	**	**	**	**	**
10.	Poliomyelitis Vaccine, Live, Oral, Type 1	26,150	2,398	23,752	106,599	
	Type 2	43,538	406	43,132	213,335	35,970
	Type 3	24,845	135	24,710	178,260	
11.	Poliomyelitis Vaccine, Live, Oral, Trivalent	2,508,410	11,790	2,496,620	5,587,995	
12.	Measles Virus Vaccine, Live, Attenuated	455,181	78,764	376,417	1,614,431	1,442,660
13.	Smallpox Vaccine	2,015,724	29,316	1,986,408	2,743,756	18,282,917
14.	Rabies Vaccine	71,970	481	71,489	116,248	245,032
15.	Immune Serum Globulin (Human)	593,316 ^{cc}	14,994 ^{cc}	578,322 ^{cc}	1,129,716 ^{cc}	237,780 ^{cc}
	Measles Immune Globulin (Human)	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}
	Poliomyelitis Immune Globulin (Human)	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}
	Tetanus Immune Globulin (Human)	211,905 ^{cc}	226 ^{cc}	211,679 ^{cc}	351,412 ^{cc}	48,962 ^{cc}
16.	Rubella Virus Vaccine, Live	1,479,956	104,729	1,375,227	9,705,975	1,599,000
17.						

*COLUMN E IS COLUMN A LESS COLUMN D OR NET DOSES DISTRIBUTED; COLUMNS A AND B INCLUDE DOMESTIC AND MILITARY.
 **NOT SHOWN SINCE LESS THAN THREE PRODUCERS REPORTED.

MONTHLY BIOLOGIC SUMMARY FOR AUGUST 1970

LINE NO.	PRODUCT DESCRIPTION	A* GROSS NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	D NO. OF DOSES RETURNED DURING MONTH	E* NET NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	B* NO. OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	C NO. OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
1-	Influenza Virus Vaccine (if applicable, specify type) Monovalent	**	**	**	**	**
	Bivalent	6,435,125	72,305	6,362,820	6,390,930	1,063,260
	Polyvalent	**	**	**	**	**
2.	Diphtheria Toxoid with Tetanus Toxoid (Pediatric)	386,797	42,210	344,587	834,344	501,906
3.	Diphtheria and Tetanus Toxoids with Pertussis Vaccine	2,523,381	33,905	2,489,476	1,768,955	755,938
4.	Tetanus Toxoid with Diphtheria Toxoid (Adult)	1,533,790	10,520	1,523,270	1,173,130	397,480
5.	Diphtheria Toxoid	**	**	**	**	**
6.	Tetanus Toxoid	2,163,724	68,522	2,095,202	3,649,296	2,261,808
7.	Pertussis Vaccine	29,485	4,995	24,490	37,595	
8.	Diphtheria-Tetanus Toxoids and Poliomyelitis Vaccine Combined: Diphtheria-Tetanus Toxoids and Pertussis and Poliomyelitis Vaccines Combined	**	**	**	**	**
9.	Poliomyelitis Vaccine (Inactivated)	**	**	**	**	**
10.	Poliomyelitis Vaccine, Live, Oral, Type 1	21,130	635	20,495	80,350	
	Type 2	36,814	888	35,926	219,845	48,819
	Type 3	23,050	495	22,555	150,940	
11.	Poliomyelitis Vaccine, Live, Oral, Trivalent	2,698,130	21,287	2,676,843	4,730,060	
12.	Measles Virus Vaccine, Live, Attenuated	486,993	38,218	448,775	1,315,251	1,440,710
13.	Smallpox Vaccine	1,096,874	24,014	1,072,860	2,445,985	17,670,267
14.	Rabies Vaccine	108,013	95	107,918	58,837	235,882
15.	Immune Serum Globulin (Human)	343,728 ^{cc}	18,754 ^{cc}	324,974 ^{cc}	1,288,170 ^{cc}	151,514 ^{cc}
	Measles Immune Globulin (Human)	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}
	Poliomyelitis Immune Globulin (Human)	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}	** ^{cc}
	Tetanus Immune Globulin (Human)	186,030 ^{cc}	3,024 ^{cc}	183,006 ^{cc}	282,426 ^{cc}	101,626 ^{cc}
16.	Rubella Virus Vaccine, Live	1,933,296	189,466	1,743,830	10,283,699	1,429,000
17.						

* COLUMN E IS COLUMN A LESS COLUMN D OR NET DOSES DISTRIBUTED; COLUMNS A AND B INCLUDE DOMESTIC AND MILITARY.

** NOT SHOWN SINCE LESS THAN THREE PRODUCERS REPORTED.

MONTHLY BIOLOGIC SUMMARY FOR SEPTEMBER 1970

LINE NO.	PRODUCT DESCRIPTION	A* GROSS NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	D NO. OF DOSES RETURNED DURING MONTH	E* NET NO. OF DOSES SOLD OR DISTRIBUTED THIS MONTH	B* NO. OF FINISHED DOSES READY FOR IMMEDIATE SHIPMENT AT MONTH END	C NO. OF FINISHED DOSES NOT READY FOR IMMEDIATE SHIPMENT
1-	Influenza Virus Vaccine (if applicable, specify type) Monovalent	**	**	**	**	**
	Bivalent	5,717,870	94,140	5,623,730	3,772,620	
	Polyvalent	**	**	**	**	**
2.	Diphtheria Toxoid with Tetanus Toxoid (Pediatric)	305,324	34,395	270,929	795,098	380,744
3.	Diphtheria and Tetanus Toxoids with Pertussis Vaccine	2,084,085	54,910	2,029,175	1,406,865	1,024,683
4.	Tetanus Toxoid with Diphtheria Toxoid (Adult)	1,356,028	17,450	1,338,578	471,640	573,790
5.	Diphtheria Toxoid	**	**	**	**	**
6.	Tetanus Toxoid	2,068,490	267,445	1,801,045	4,371,805	2,150,872
7.	Pertussis Vaccine	13,290	1,005	12,285	22,805	
8.	Diphtheria-Tetanus Toxoids and Poliomyelitis Vaccine Combined: Diphtheria-Tetanus Toxoids and Pertussis and Poliomyelitis Vaccines Combined	**	**	**	**	**
9.	Poliomyelitis Vaccine (Inactivated)	**	**	**	**	**
10.	Poliomyelitis Vaccine, Live, Oral, Type 1	20,895	2,185	18,710	90,565	
	Type 2	30,913	1,325	29,588	218,169	38,746
	Type 3	21,590	1,090	20,500	129,710	
11.	Poliomyelitis Vaccine, Live, Oral, Trivalent	2,865,316	13,471	2,851,845	3,340,200	
12.	Measles Virus Vaccine, Live, Attenuated	481,214	30,176	451,038	1,297,074	1,189,109
13.	Smallpox Vaccine	1,476,398	115,470	1,360,928	2,675,661	19,767,200
14.	Rabies Vaccine	31,822	2,172	29,650	49,998	337,993
15.	Immune Serum Globulin (Human)	331,092 cc	12,912 cc	318,180 cc	728,923 cc	179,368 cc
	Measles Immune Globulin (Human)	** cc	** cc	** cc	** cc	** cc
	Poliomyelitis Immune Globulin (Human)	** cc	** cc	** cc	** cc	** cc
	Tetanus Immune Globulin (Human)	116,268 cc	483 cc	115,785 cc	221,312 cc	101,466 cc
16.	Rubella Virus Vaccine, Live	3,309,180	148,501	3,160,679	11,118,220	3,612,000
17.						

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 **NOT SHOWN SINCE LESS THAN THREE PRODUCERS REPORTED.

DISTRIBUTION OF BIOLOGICS – UNITED STATES, 1970

Biologics	Net Total Doses	
	July through Sept. 1970	January through Sept. 1970
Influenza Virus Vaccine (Monovalent)	**	**
Influenza Virus Vaccine (Polyvalent)	**	**
Influenza Virus Vaccine (Bivalent)	14,841,550	15,958,825
Diphtheria Toxoid	**	**
Pertussis Vaccine	38,075	91,275
Tetanus Toxoid	6,107,907	14,059,238
Poliomyelitis Vaccine*	**	**
Poliovirus Vaccine, Live, Oral, Type 1	62,957	651,361
Poliovirus Vaccine, Live, Oral, Type 2	108,746	327,834
Poliovirus Vaccine, Live, Oral, Type 3	67,765	477,668
Poliovirus Vaccine, Live, Oral, Trivalent	8,025,308	19,471,916
Measles Virus Vaccine, Live, Attenuated	1,275,690	3,481,104
Smallpox Vaccine	4,420,196	11,991,104
Rabies Vaccine	209,057	548,654
Immune Serum Globulin (Human)	1,221,476	4,528,288
Poliomyelitis Immune Globulin (Human)	**	**
Tetanus Immune Globulin (Human)	510,470	1,014,482
Live Rubella Virus Vaccine	6,279,736	25,937,435 (1)

*Inactivated (Salk Type)

(1)Vaccine distributed from licensure through Sept. 1970

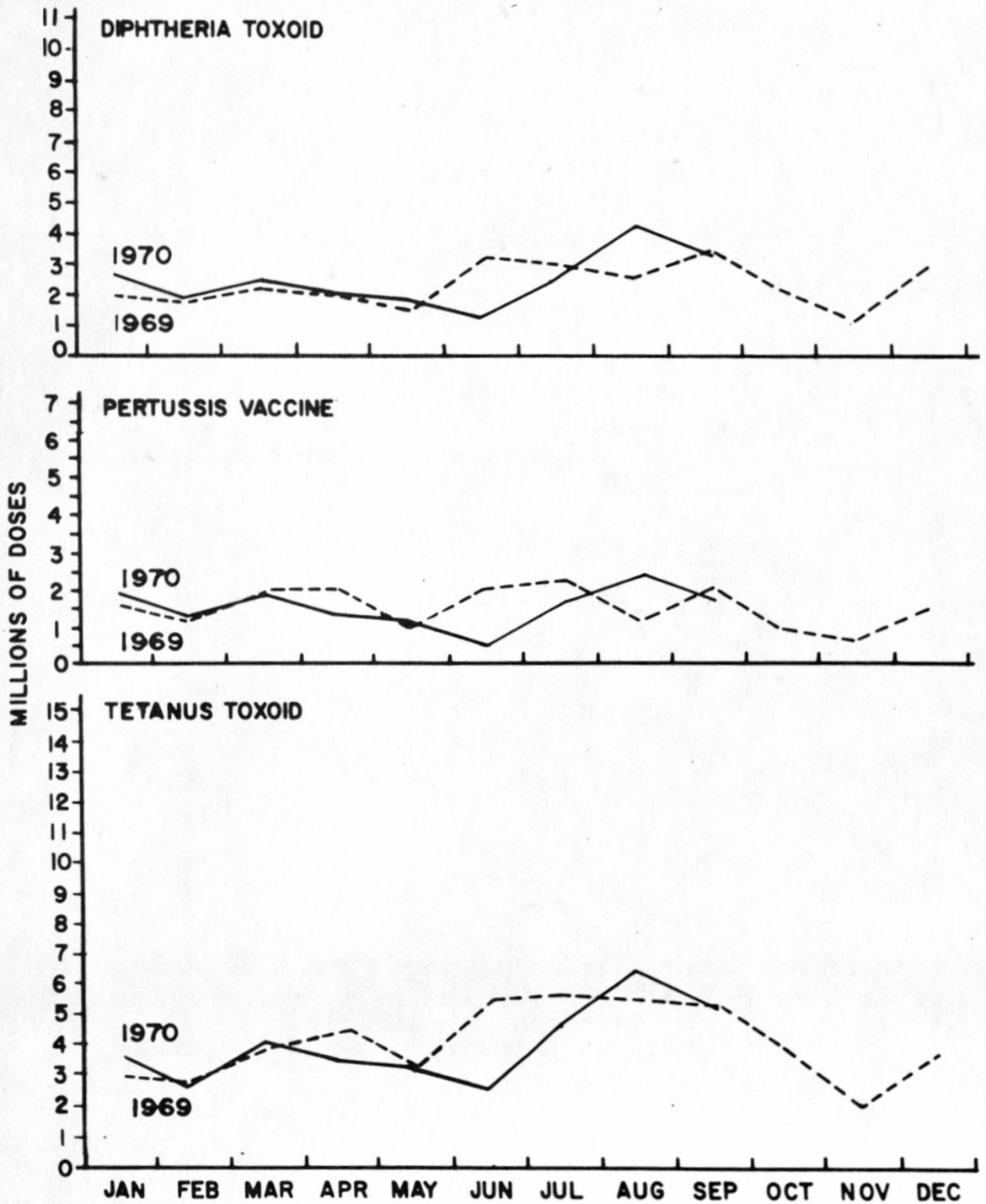
DISTRIBUTION OF COMBINED BIOLOGICS – UNITED STATES, 1970

Biologics	Net Total Doses	
	July through Sept. 1970	January through Sept. 1970
Diphtheria and Tetanus Toxoids Combined	832,419	1,651,741
Diphtheria and Tetanus Toxoids and Pertussis Vaccine Combined	6,277,305	15,122,828
Tetanus and Diphtheria Toxoids Combined (For Adult Use)	3,372,868	6,476,158
Diphtheria and Tetanus Toxoids and Poliomyelitis Vaccine; Diphtheria and Tetanus Toxoids and Pertussis and Poliomyelitis Vaccines	**	**

**Not shown since fewer than three producers reported

Figure 1.

DIPHTHERIA AND TETANUS TOXOIDS, PERTUSSIS VACCINE
UNITED STATES* (Net Distribution by Month)



*INCLUDES ALL PRODUCTS CONTAINING THESE ANTIGENS

Figure 2.

POLIOVIRUS VACCINES, LIVE, ORAL-UNITED STATES,
(Net Distribution by Month)

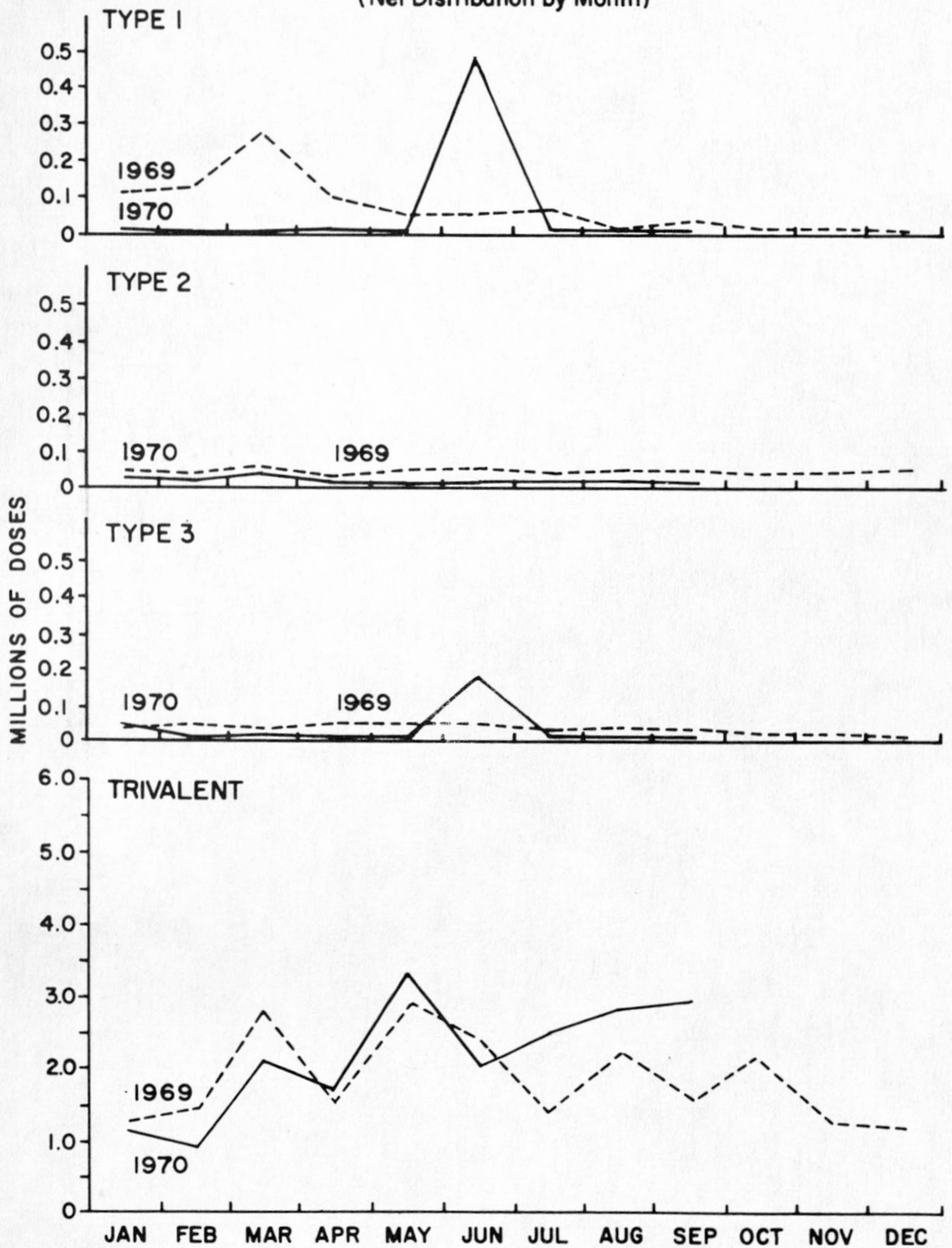


Figure 3.

MEASLES VIRUS VACCINE, LIVE ATTENUATED
UNITED STATES
(Net Distribution by Month)

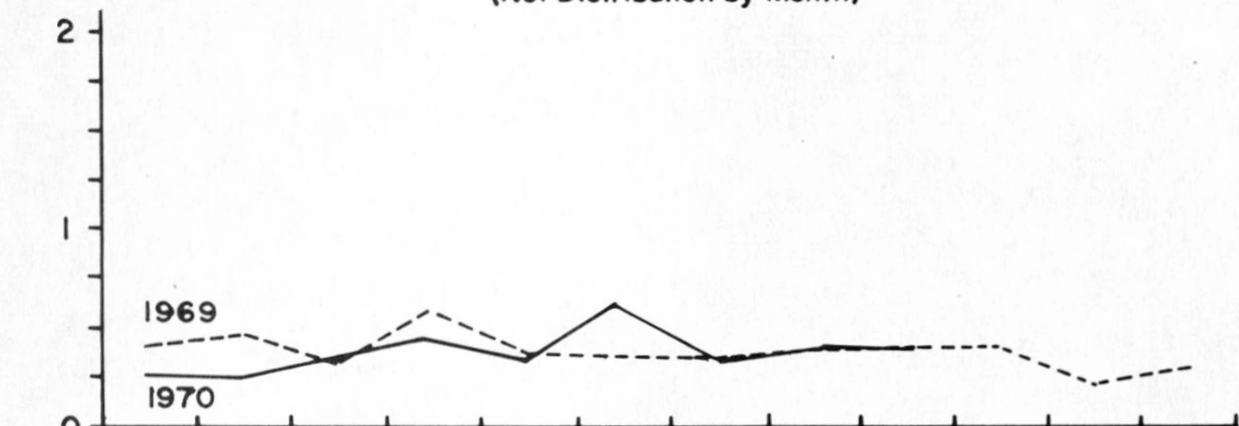


Figure 4.

SMALLPOX VACCINE - UNITED STATES
(Net Distribution by Month)

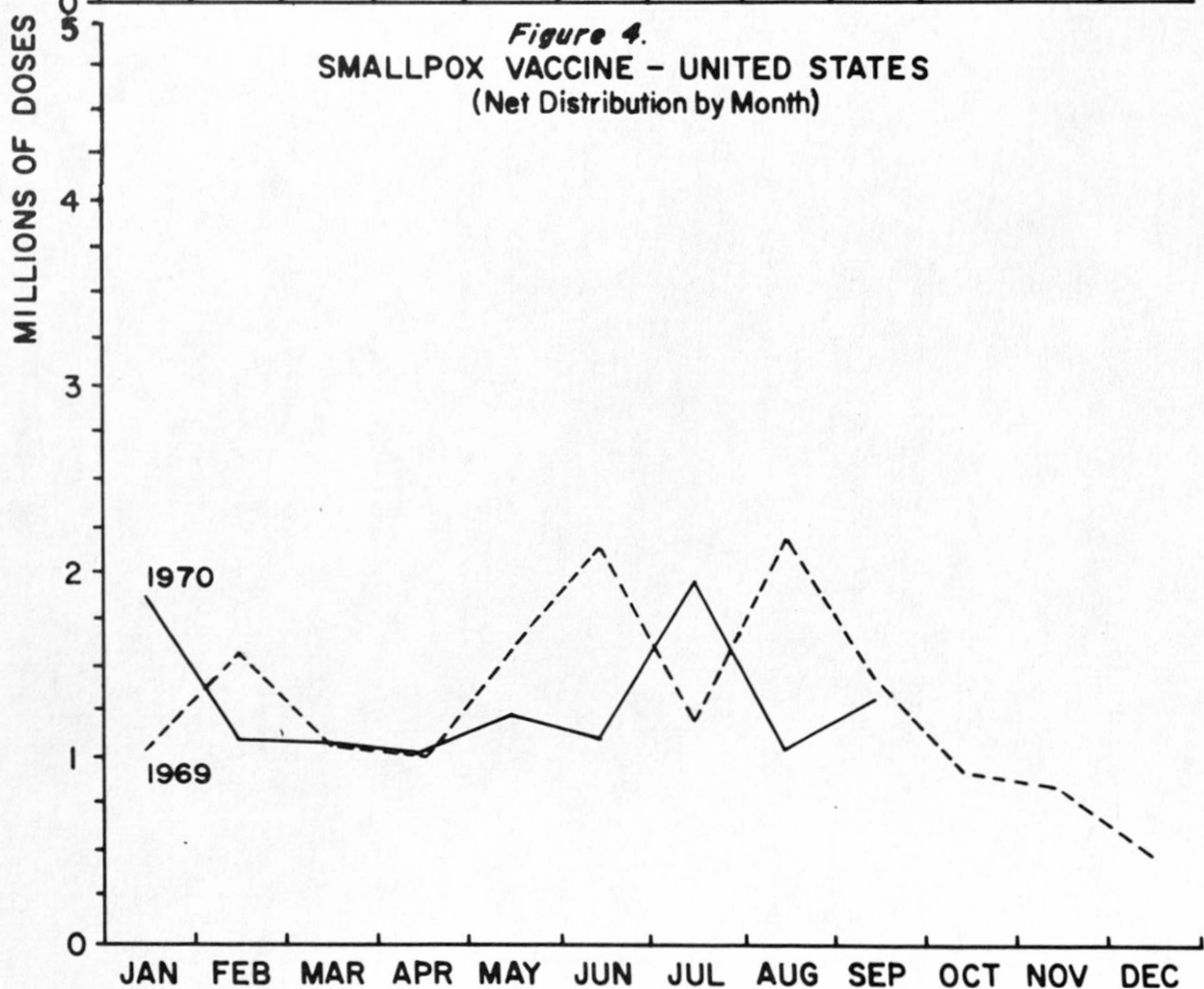
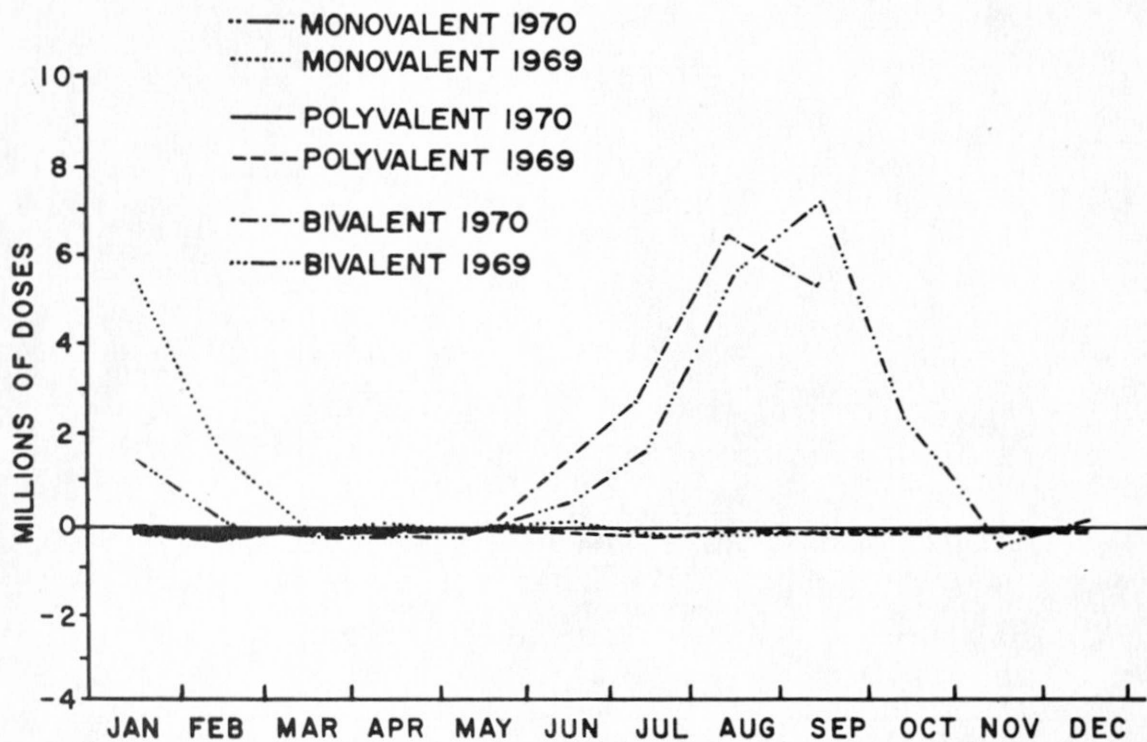


Figure 5.

INFLUENZA VIRUS VACCINE · UNITED STATES*

(Net Distribution by Month)



* INCLUDES ALL PRODUCTS CONTAINING INFLUENZA VACCINE

Figure 6.
RABIES VACCINE · UNITED STATES
(Net Distribution by Month)

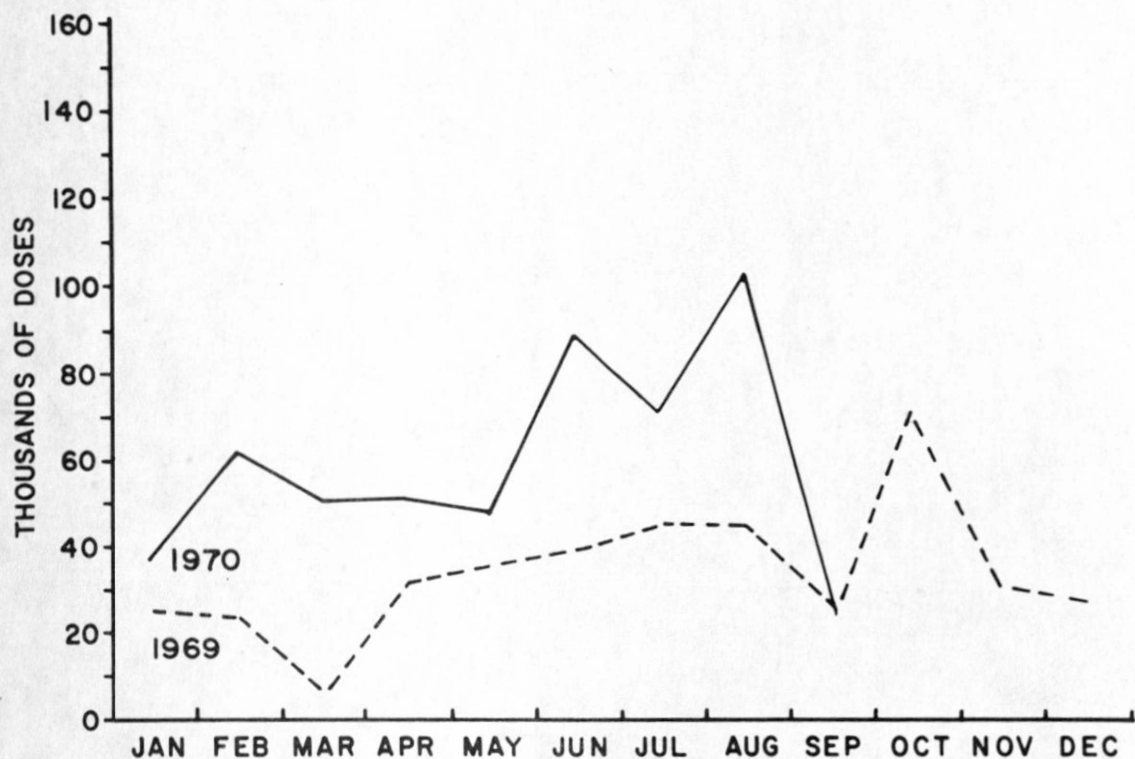


Figure 7.

**IMMUNE SERUM GLOBULINS (HUMAN)
UNITED STATES**

(Net Distribution by Month)

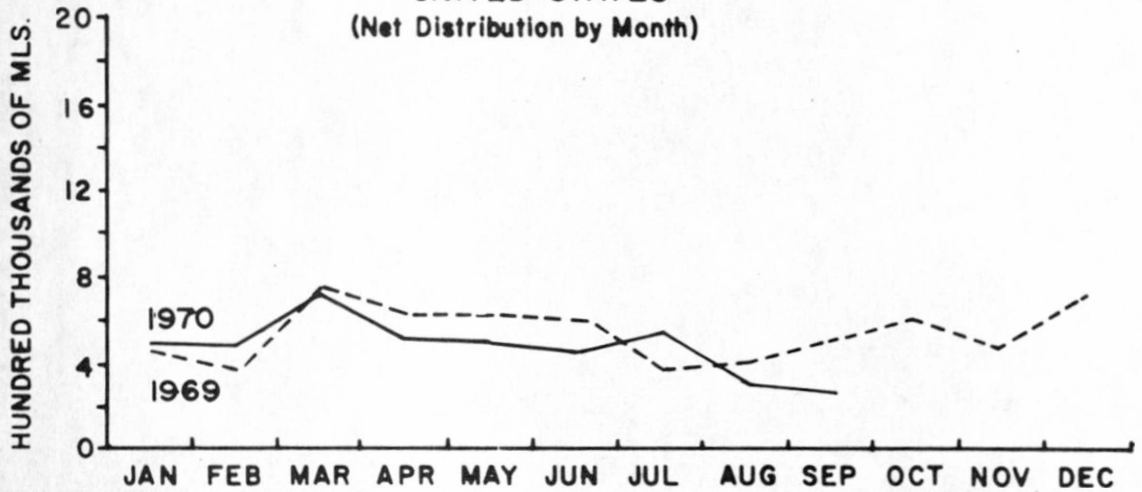
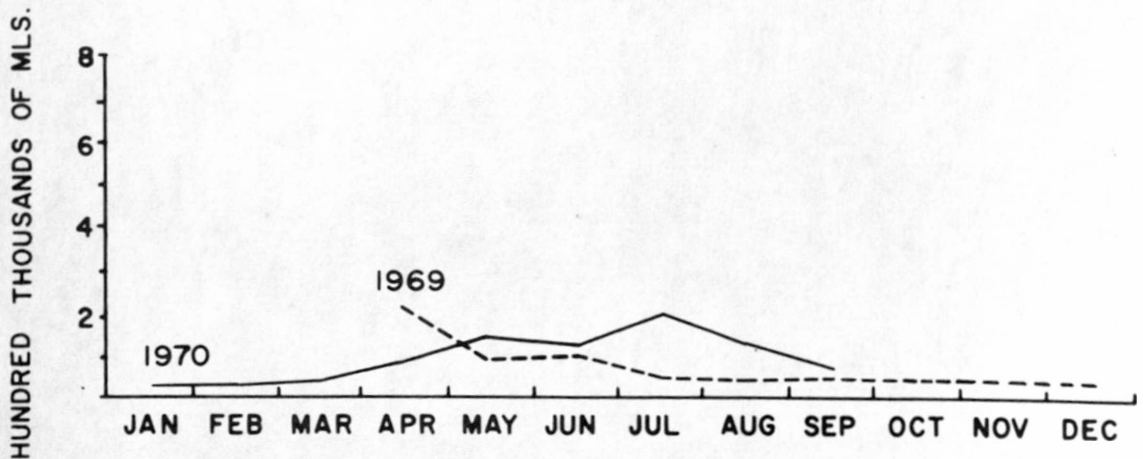


Figure 8.

**TETANUS IMMUNE GLOBULIN (HUMAN)
UNITED STATES**

(Net Distribution by Month)



**MANUFACTURERS AND DISTRIBUTORS
OF SPECIFIED BIOLOGICS —
UNITED STATES**

		Armour Pharmaceutical Co.	Courtland Laboratories	Cutter Laboratories	Dow Chemical Co.	Hyland Div. Travenol Lab.	Illinois Dept. of Public Health	Lederle Laboratories	Eli Lilly and Co.	Mass. Public Health Bio. Lab.	Merck Sharp and Dohme	Mich. Dept. of Public Health	The National Drug Co.	Ortho Pharmaceutical Corp.	Parke, Davis and Co.	Chas. Pfizer and Co.	The Philadelphia Blood Center	Philips Roxane, Inc.	Smith Kline & French	E.R. Squibb & Sons, Inc.	Texas State Dept. of Health	Wyeth Laboratories		
1. Influenza Virus Vaccine	Monovalent			o		o	o		o		•		•	o								o		
	Bivalent			o		•	•		•		•		•	o									•	
	Polyvalent			o		o	o		o		o		•	•									o	
2. Diph. Toxoid with Tetanus Toxoid (Pediatric)			•	•	x	•	•	•	o	•	o		•								•	•		
3. Diph. and Tetanus Toxoids with Pertussis Vac.			•	•	x	o	•	•	o	•	•		•								•	•		
4. Tetanus Toxoid with Diph. Toxoid (Adult)			•		x	•	•	•	o		•			o							•	•		
5. Diphtheria Toxoid			o	o					o		o	o		•	o						•	o		
6. Tetanus Toxoid			•	•		•	•	•	•	•	•		•	o							•	•		
7. Pertussis Vaccine			o	o		o	•	o		•	o		o								•	o		
8. Poliomyelitis Vaccine (Inactivated)			o	o			o		o				o	•										
9. Poliomyelitis Vaccine, Live, Oral, Type 1						•							•	•								•		
	Type 2					•							•	•								•		
	Type 3					•							•	•								•		
10. Poliomyelitis Vaccine, Live, Oral, Trivalent						•							•	•								•		
11. Measles Virus Vaccine, Live, Attenuated				•		•	•		•				•	•			•							
12. Rubella Virus Vaccine, Live										•			•				•	•						
13. Smallpox Vaccine			•			•	•	•	o	•	•		•									•		
14. Rabies Vaccine				o	x	o	•			•	•		o								o			
15. Immune Serum Globulin (Human)		o	o	•	•	•	•		•	•	•		o	•					•					
Measles Immune Globulin (Human)					o		o	o					•											
Poliomyelitis Immune Globulin (Human)		o	o	o	o	o			o	o			o		•									
Tetanus Immune Globulin (Human)				•	•	•	•		•	•	•		o						o		•			