

APPENDIX B: HERBICIDE SPRAY MISSIONS IN SOUTH VIETNAM

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9, 9, 1999.

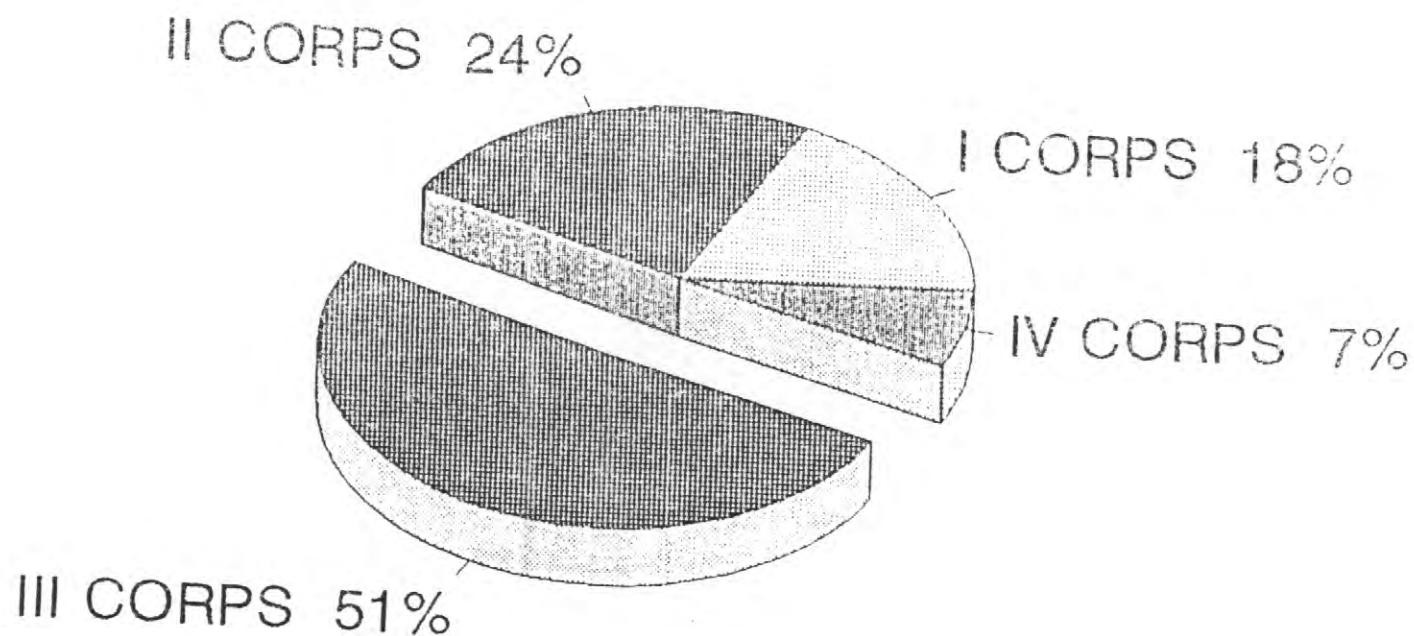
THE FIFTEEN HERBICIDES USED IN VIETNAM

- PURPLE: A FORMULATION 2,4,-D AND 2,4,5,-T USED BETWEEN 1962 AND 1964
- GREEN: CONTAINED 2,4,5,-T AND WAS USED 1962-1964
- PINK: CONTAINED 2,4,5-T AND WAS USED 1962-1964
- ORANGE: A FORMULATION OF 2,4,-D AND 2,4,5,-T USED BETWEEN 1965 AND 1970
- WHITE: A FORMULATION OF PICLOGRAM AND 2,4,-D
- BLUE: CONTAINED CACODYLIC ACID
- ORANGE II: A FORMULATION OF 2,4,-D AND 2,4,5,-T USED IN 1968 AND 1969
- DINOXOL: A FORMULATION OF 2,4,-D AND 2,4,5,-T - SMALL QUANTITIES WERE TESTED IN VIETNAM BETWEEN 1962 AND 1964
- TRINOXOL: CONTAINED 2,4,5,-T - SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- D,QUAT: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- BROMACIL: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- TANDEX: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- MCNURON: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- DIURON: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964
- DALAFON: SMALL QUANTITIES TESTED IN VIETNAM 1962-1964

PREPARED BY THE NEW JERSEY AGENT ORANGE COMMISSION

AGENT ORANGE SPRAY MISSIONS SOUTH VIETNAM

1965-1970



SPRAY MISSIONS BY MILITARY REGIONS

PREPARED BY NEW JERSEY AGENT ORANGE COMMISSION

SPRAY MISSION RECAPITULATION

NUMBER	DATE	START	STOP	AGENT	DISTANCE (mi)	SOURCE
4100	67/01/12	XT902464	- XT750535	ORANGE	6.35	RANCH HAND
4439	67/02/05	XT903520	- XT910517	ORANGE	4.75	RANCH HAND
4610	67/02/19	XT904443	- XT907443	ORANGE	7.08	RANCH HAND
4623	67/02/19	XT904443	- XT907443	ORANGE	7.08	RANCH HAND
4632	67/02/20	XT984321	- XT334459	ORANGE	7.08	SERVICE HERB
4771	67/03/02	XT900460	- XT718521	ORANGE	7.97	RANCH HAND
5011	67/03/18	YT040540	- YT040490	ORANGE	6.71	RANCH HAND
5012	67/03/18	XT994340	- XT994460	ORANGE	8.00	RANCH HAND
5024	67/03/19	XT915520	- XT903313	ORANGE	3.40	RANCH HAND
5057	67/03/21	XT930520	- XT920620	ORANGE	5.41	RANCH HAND
5094	67/03/24	XT900470	- XT750530	ORANGE	4.24	RANCH HAND
5115	67/03/25	YT007170	- YT007430	ORANGE	6.32	RANCH HAND
5270	67/04/09	XT932540	- XT932622	ORANGE	7.32	RANCH HAND
5297	67/04/11	XT949550	- XT769532	ORANGE	5.73	RANCH HAND
5299	67/04/11	XT943548	- XT944525	ORANGE	6.07	RANCH HAND
5301	67/04/12	YT025335	- YT022480	ORANGE	5.44	RANCH HAND
5307	67/04/12	XT094320	- XT077317	ORANGE	6.20	RANCH HAND
5301	67/07/02	XT990432	- XT990360	ORANGE	7.72	RANCH HAND
5314	67/07/19	YT020400	- YT020340	ORANGE	6.71	RANCH HAND
7037	67/09/03	YT019200	- YT009435	ORANGE	6.20	RANCH HAND
7073	67/09/04	YT015204	- YT015453	ORANGE	7.34	RANCH HAND
7193	67/09/17	YT002290	- YT002472	ORANGE	6.52	RANCH HAND
7494	67/10/05	YT000470	- YT140470	ORANGE	7.52	RANCH HAND
7498	67/10/05	YT000462	- YT170462	ORANGE	4.12	RANCH HAND
7498	67/10/05	YT000492	- YT170492	ORANGE	4.32	RANCH HAND
7500	67/10/05	YT000459	- YT139459	ORANGE	4.32	RANCH HAND
7507	67/10/05	YT000455	- YT133433	ORANGE	3.03	RANCH HAND
7509	67/10/05	YT000422	- YT170432	ORANGE	5.22	RANCH HAND
7542	67/10/02	YT001492	- YT120492	ORANGE	4.00	RANCH HAND
7552	67/10/02	YT000431	- YT170431	ORANGE	4.05	RANCH HAND
7674	67/10/14	YT000464	- YT170465	ORANGE	4.10	RANCH HAND
7684	67/10/15	YT000471	- YT170471	ORANGE	4.77	RANCH HAND
7724	67/10/10	YT000473	- YT120473	ORANGE	4.43	RANCH HAND
7772	67/10/04	YT000474	- YT170494	ORANGE	4.27	RANCH HAND
7826	67/10/31	YT000422	- YT173422	ORANGE	4.02	RANCH HAND
7824	67/11/01	YT000431	- YT151431	ORANGE	4.37	RANCH HAND
7825	67/11/02	YT000441	- YT140442	ORANGE	5.27	RANCH HAND
7825	67/11/02	YT000467	- YT170463	ORANGE	6.22	RANCH HAND
7825	67/11/03	YT000433	- YT132433	ORANGE	4.31	RANCH HAND
8000	67/11/15	YT015340	- YT015435	ORANGE	6.55	RANCH HAND
4004	67/01/24	YT000270	- YT008446	WHITE	5.22	RANCH HAND
4026	67/01/04	XT333470	- XT333514	WHITE	6.51	RANCH HAND
5017	67/03/19	YT040340	- YT040490	BLUE	7.36	RANCH HAND
5023	67/03/19	XT000310	- XT000320	BLUE	8.00	RANCH HAND
5170	67/04/09	XT932540	- XT931333	WHITE	7.32	RANCH HAND
5251	67/03/03	XT970330	- XT980440	WHITE	5.46	RANCH HAND
5102	67/03/12	YT000330	- XT999440	WHITE	5.29	RANCH HAND
5335	67/07/02	XT933437	- XT930530	WHITE	4.34	RANCH HAND
5374	67/07/02	XT960430	- XT000330	WHITE	2.30	RANCH HAND
5414	67/07/11	YT020340	- YT022467	WHITE	6.32	RANCH HAND
5432	67/07/15	YT015340	- YT010435	WHITE	6.00	RANCH HAND
5520	67/07/19	YT020435	- YT020340	WHITE	3.09	RANCH HAND
5620	67/07/15	XT981323	- XT981000	WHITE	6.00	RANCH HAND
5627	67/07/23	YT000355	- YT000340	WHITE	4.00	RANCH HAND
5642	67/07/23	YT000344	- YT007460	WHITE	4.32	RANCH HAND
5717	67/08/02	YT023230	- YT023463	WHITE	7.38	RANCH HAND
7197	67/09/17	YT021200	- YT019460	WHITE	6.96	RANCH HAND
7255	67/10/15	YT000464	- YT170464	WHITE	6.00	RANCH HAND
7274	67/10/20	YT000475	- XT190470	WHITE	4.04	RANCH HAND
7320	67/10/20	XT983430	- XT983430	WHITE	4.17	RANCH HAND
7320	67/10/20	YT000461	- YT170461	WHITE	4.17	RANCH HAND

HERBICIDE MISSIONS IN THE REPUBLIC OF SOUTH VIETNAM

Military Region	Dates	Amounts in gallons		
		Orange	Blue	White
I CORP MILITARY REGION				
Province 1 Quang Tri	9/11/66 to 9/9/70	515,615	25,79	111,410
Province 2 Thua Thien	8/10/66 to 9/22/70	753,335	78,367	186,751
Province 3 Quang Nain	2/17/66 to 2/24/70	352,945	19,450	63,200
Province 4 Quang Tin	2/9/66 to 10/14/70	173,275	44,770	50,470
Province 5 Quang Ngai	2/12/66 to 10/15/70	219,460	86,737	40,770
Province 91 Hue	No Information Available			
Province 92 Da Nang	No Information Available			
II CORP MILITARY REGION				
Province 6 Kontua	8/2/65 to 9/20/70	910,415	74,700	131,340
Province 7 Binh Dinh	9/6/65 to 12/8/71	497,952	97,242	64,711
Province 8 Pleiku	10/14/65 to 5/8/70	197,585	14,190	191,363
Province 9 Phu Bon	10/29/65 to 10/22/70	12,300	10,900	21,600
Province 10 Phu Yen	10/7/65 to 11/17/70	207,707	58,120	19,831
Province 10 Dar Lac	9/12/67 to 12/16/70	217,900	23,119	37,590
Province 12 Khanh Hoa	8/28/65 to 1/7/70	132,596	45,591	77,215
Province 13 Ninh Thuan	4/13/66 to 10/7/71	104,815	33,100	2,075
Province 14 Tuyon Duc	10/5/68 to 10/5/70	485	4,540	0
Province 15 Quang Duc	6/24/67 to 3/26/70	277,575	12,500	135,400
Province 16 Lan Dong	5/18/67 to 7/28/70	32,400	49,735	2,890
Province 17 Binh Thuan	6/14/66 to 8/28/70	119,565	14,420	47,910
Province 93 Can Raah	8/4/68 to 5/30/70	3,915	0	1,320
III CORP MILITARY REGION				
Province 18 Binh Tuy	5/18/66 to 2/10/70	294,360	33,500	86,640
Province 19 Long Khanh	10/21/65 to 3/28/70	983,562	16,745	612,356
Province 21 Phou Long	10/20/65 to 5/9/70	1,607,235	56,450	1,143,565
Province 22 Binh Long	10/29/65 to 12/1/69	139,740	0	209,735
Province 23 Dinh Duong	1/9/65 to 4/9/70	395,835	40,510	373,973
Province 24 Tay Ninh	9/24/65 to 2/28/71	511,740	74,495	476,849
Province 25 Hay Nghia	1/25/65 to 1/17/70	483,215	10,345	51,273
Province 26 Bien Hao	7/21/65 to 4/3/70	425,037	8,950	386,985
Province 27 Phuoc Tuy	1/10/65 to 2/13/70	202,910	2,760	156,750
Province 28 Long An	11/26/65 to 2/13/70	109,090	0	28,300
Province 29 Gia Dinh	1/5/66 to 11/25/70	532,685	43,400	225,485
IV CORP MILITARY REGION				
Province 95 Vung Tau	No Information Available			
Province 96 Saigon	No Information Available			
Province 30 Go Cong	7/31/68 to 5/5/69	6,000	0	3,095
Province 31 Kien Tuong	3/7/67 to 4/9/69	59,020	11,300	54,260
Province 32 Kien Phong	6/6/67 to 2/4/70	13,760	990	4,895
Province 33 Dinh Tuong	8/16/68 to 4/13/70	8,720	965	7,316
Province 34 Kien Hoa	12/7/65 to 2/18/70	225,390	0	56,070
Province 35 Vinh Binh	10/2/66 to 3/31/70	174,595	5,000	17,360
Province 36 Vinh Long	10/17/68 to 12/5/69	5,490	1,180	12,735
Province 37 An Giang	No Information Available			
Province 38 Kien Giang	8/4/66 to 2/16/71	30,895	0	21,190
Province 39 Chuong Thien	8/7/66 to 2/19/71	23,220	0	2,225
Province 40 Phong Dinh	12/14/65 to 6/27/70	30,775	12,700	15,722
Province 41 Ba Xuyen	6/17/66 to 3/9/70	27,820	1,280	3,546
Province 42 An Xuyen	8/9/66 to 2/17/71	74,240	0	106,760
Province 43 Duc Lap	10/4/66 to 2/15/69	126,690	6,000	31,638

Only the areas not specified in the above table are included in the programs by GVN or US military. Areas specified below are either cities or US military bases; and the fallowage represents sprays within 8 km of the specified area. (Thus, each area is 9.6 mile diameter)

	Orange	White	Blue
An Hoa	6500	1800	11750
A Chau	53500	2550	6128
Hue	41795	----	5970
LangCo Bridge	50610	5600	3500
Phu Hai	54300	2000	120
Con Thien	84700	12460	10925
Can Lo	80375	8660	12785
LZ Sandra	110780	20210	24755
Firebase Bakkassan	150145	23900	2510
Firebase Jack	140875	11900	3280
Marble, Hill 59	15405	6720	18508
LZ Profess, Hill 55	39300	13000	17209
Chu Lai	12170	4150	1592
LZ June, Firebase Barbara	91151	6750	3700
Duc Pho, LZ Hronco	46275	14400	1175
Da Nang, China Beach	13500	----	2000
LZ Dogpatch, Hill 327	4490	----	8750
LZ Hockcrucher, Hill 85	47500	----	----
Quang Tri, LZ Nancy	68000	2750	3700
LZ Langley, Firebase Shepard	72105	7040	4000
LZ Snapper, Firebase Leather	11350	----	3000
Khe Sanh, Firebase Smith	43705	3040	4300
Phu Loc, LZ Tomahawk	76250	4000	----
Firebase West	15405	3690	12480
LZ Nose	15405	6720	12508
Quang Hai	25605	----	1800
Camp Evans	16670	----	800
LZ Baldy	15430	3000	13950
noi An	17520	3000	12950
Hill 63	20560	3200	----
Binh Hoa	8220	----	1600
Camp Eagle	14250	----	----
LZ Rockpile	110050	15440	7650
Camp Esco	53410	5600	5500
Camp Carroll	78200	5400	5050
LZ Gerontao	22535	14000	468
Camp Henderson	68155	7040	4800
Hong Ha	54385	5060	9935
Hill 69	11620	4150	1598
II Corps:			
An Khe, Camp Maccliff	37810	6400	5610
LZ Dog, LZ English	63075	630	6000
An Lao, LZ Larazin	68970	490	10570
Phu Cat, LZ Hammond	29700	7210	----
Plei Me, SF Camp	15700	3760	110
Bon Song, LZ Two Bits	80645	630	6000
LZ Putter, Firebase Bird	50095	----	7200
Tuy An	13215	3740	----
Cam Ranh Bay	21227	1373	----
LZ Uplift	43455	3220	275
Firebase Pony	43490	----	3600
Nha Trang	6950	325	----
Bun Me Thuot	16000	9250	----
Tuy Hoa	29565	4485	----
Qui Nhon	53215	1800	4125
Bre Nhi	6600	----	----
Phan Rang	110	2075	----
Phan Thiet	5000	330	220
Kontum	----	415	----
Song Cau	5650	55	----
Che Oreo	----	1800	----
Da Lat	575	----	----
Plei Jerang	98220	51235	1000

Phleku	1210	11640	1950
Camp Granite	59310	2075	5390
Ben Het	60495	7250	3000
Dak Tu	49460	600	34600
LZ Oaslu	No Data	-----	-----
III Corps:			
Firebase Jewel, LZ Snuffy	219550	146010	7300
Long Binh, Firebase Concord	13445	57560	----
Bien Duc, Firebase Elaine	66850	25500	----
Hui Da Den, Firebase Caroline	50020	66500	2100
Vo Dat, Firebase Nancy	14180	29100	----
Salon	No Data	-----	-----
Nha Be (Navy Base)	119725	121925	6000
Cholon	320	----	----
Phu Loi	79000	83430	----
An Loc	72000	79830	----
Lai Khe	57120	22500	1800
Xuan Loc	23865	58750	660
Firebase Franzel	13445	57560	900
LZ Bearcat	17840	75470	----
Trang Bang	32365	39560	6000
Bien Hoa	35045	124525	3950
Phu Cuong	39845	62250	12055
Loc Ninh	46660	103710	1800
Qua Viet	50610	5600	3500
Firebase Haze	34280	33350	730
Quan Loi	44190	34300	----
LZ Schofield	38640	17210	7800
Tan Son Nhut	6320	----	1595
Firebase Di An	6000	----	1595
Ben Cat	87250	83640	20105
Tuy Ninh	720	3225	600
Vung Tau	7350	----	----
Song Be	1900	9220	----
Dau Tieng (Michellie)	32370	45800	3600
LZ Fish Hook	44000	23800	----
Duc Hoa	750	----	----
Cu Chi	59150	67540	14105
Phouc Vinh	484383	146576	12810
Katus (not a basecamp/firebase)	299420	239395	20000
IV Corps:			
Vinh Long	8360	9755	890
Vinh Loi	30010	----	----
Tru Vinh	9805	8000	----
Tieu Con	8700	----	----
Tan An	89550	36450	----
Soc Trang	3410	2391	1280
Stafloat	4700	----	----
Phu Quoc	19000	----	----
Phnom	----	184	----
Rach Gia	----	2155	----
Nam Can	150345	64295	----
Hy Tho	13320	7316	963
Firebase Moore	9820	----	----
Hoc Hoa	12400	6590	----
Hoa Long	3275	1620	----
Ben Luc	45900	14838	----
Ben Tre	24800	24750	----
Can Tho	15160	13915	11685
Cao Lanh	1875	2935	830
Dong Tam	5870	605	165
Firebase Grand Can(yon?)	----	1540	----