# **Agent Orange Exposure Locations**

# Recognized by VA



#### Vietnam & Brown Water Veterans

The inland waterways of Vietnam are often referred to as "brown water" because of their muddy color. The naval vessels operating on them are referred to as the Brown Water Navy and/or Mobile Riverine Force. Those who made brief visits ashore and/or served on a ship that was operated on the inland waterways of Vietnam are often referred to as "Brown Water Veterans."

#### Blue Water Veterans

The deep offshore waters of Vietnam are often referred to as "blue waters" and naval vessels operating on them are referred to as the Blue Water Navy. Blue Water Veterans are not presumed to have been exposed to Agent Orange or other herbicides unless they actually set foot in Vietnam (including for liberal leave or work detail) or served aboard ships on its inland waterways between January 9, 1962 and May 7, 1975. The Blue Water Navy operated large ships which were used to carry out their missions along the Vietnam coastal waters. Some offshore ships including hospital ships, harbor repair ships, mine sweepers, seaplane tenders, and destroyers sent crew members ashore. Veterans aboard these ships who can show they were on shore will be eligible for the presumption of exposure.

## U.S. Navy & Coast Guard Ships In Vietnam

VA maintains an evolving list of U.S. Navy and Coast Guard ships associated with military service in Vietnam and possible exposure to Agent Orange based on military records. This includes ships of the Brown Water and Blue Water Navy that operated on Vietnam's inland waterways, docked to shore or pier in Vietnam, or that delivered supplies or troops ashore. The alphabetized ships list is available at http://www.publichealth.va.gov.exposures.agentorange.shipligh.mdex.asp.

### Korean Demilitarized Zone

Veterans who served in a unit operating along the Korean demilitarized zone anytime between April 1, 1968 and August 31, 1971, and who have a disease VA recognizes as associated with Agent Orange exposure, are presumed to have been exposed to herbicides.

### Thailand Military Bases

Vietnam-era Veterans, including U.S. Air Force and Army Veterans, whose service involved duty on the perimeters of military bases in Thailand anytime between February 28, 1961 and May 7, 1975 may qualify for VA benefits.

#### Herbicide Tests & Storage Outside Vietnam

- The Department of Defense gave VA the below list of dates and locations outside of Vietnam where herbicides were tested and stored. To view the complete list online visit
- Go to <a href="https://www.publichealth.va.gov/exposures/agenrorange/locations/index-asp">www.publichealth.va.gov/exposures/agenrorange/locations/index-asp</a> for more information on each location

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## Information from Department of Defense (DoD) on Herbicide Tests and Storage outside of Vietnam

Location	Dates	Agents	Project Description	DoD Involvement
Fort Chaffee, AR	5/16/1967- 5/18/1967, 7/22/1967- 7/23/1967, 8/23/1967 - 8/24/1967	basic, in-house, improved desiccants and Orange, Blue	During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was conducted by personnel from Fort Derrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and U of HI.	Yes
Pinal Mountains near Globe, AZ	1965, 1966, 1968, and 1969	2,4-D isooctyl-ester, 2,4,5-t isooctyl- ester, silvex, propyleneglycolbut ylether ester, 2,4,5- T butyl ester, 2,4,5- T 2-e-h e	In 1965, the USFS began a land improvement program in the Pinal Mountains. The program called for spraying an area of chaparral with herbicides to accomplish the objectives of multiple land use.	No
Brawley, CA	1950-51	2,4-D	The purpose was to determine means of accomplishing defoliation of	Undetermined

	and the same of th			
Orlando, FL at	3/14/1944,	ammonium	tropical forest vegetation by application of a chemical agent.Here, irrigation water studies were done with the agent. H.F. Arle worked here. The purpose was to	Yes
Army Grove Air Force's Tactical Center	4/12/1944	thiocynate, zinc chloride, sodium nitrate, sodium arsenate, sodium fluoride	determine means of accomplishing defoliation of tropical forest vegetation by application of a chemical agent.	
Marathon, FL	3/21/1944- 3/23/1944	zinc chloride, ammonium sulphamate, ammonium thiocynate	The purpose was to determine means of accomplishing defoliation of tropical forest vegetation by application of a chemical agent. Spraying was done here.	Yes
Near Lake George, FL	Spring 1944	zinc chloride	The purpose was to determine means of accomplishing defoliation of tropical forest vegetation by application of a chemical agent. Spraying here.	Yes
Orlando, FL, Cocoa, FL	1944	ammonium thiocyanate and zinc chloride	Tests were conducted in 1944 by the Army in Orlando and Cocoa areas of Florida to determine the value of ammonium thiocyanate and chloride as marking and defoliation agents They were conducted initially at ground level and later from aircraft.	Yes
Bushnell Army Air Field, FL	2/1945	LN *phenoxy	Small plot experiments were commenced to test the effectiveness of	Yes

	The state of the s			
			LN agents. Various trials were done under contract with the USDA, aided by personnel at Camp Detrick. Here, it was aerial spray experiments on potted plants	
Bushnell Army Air Field, Bushnell, FL	2/1945-4/1945	2,4-D and its ammonium salt	Trials, performed by C.W.S. personnel from Camp Detrick, MD tested the practicability of severely injuring or destroying crop plants sprayed from smoke tanks mounted on tactical aircraft.	Yes
Avon Air Force Base, FL	2/1951- 4/1951	butyl 2,4 D	Trials were conducted at Avon Air Force Base, FL by Chemical Corps with personnel of the Air Force and Navy to determine the practical effectiveness of spraying pure anticrop agents from at low volume from aircraft. C-47 and Navy XBT2D-1 aircraft with various nozzles were used.	Yes
Englin Air Force Base, FL	11/1952-12/1952	2,4-D, 2,4,5-T: 143 and 974, respectively	Two trials: Chemical Corps- concerned with basic fundamental work, using 2,4-D, Air Force- concerned with evaluating prototype large capacity spray system for aircraft installation using 2,4,5-T, primarily. Used 3 atomizing nozzles: Bete Fog Nozzles, Whirljet	Yes

			Spray Nozzles, and Fogjet 1.5F50	
Avon Park Air Force Base, FL	Spring 1954	butyl 2,4-D, butyl 2,4,5-T, Isopropyl 2,4-D	Series of tests were conducted at Avon Park AFB during the spring of 1954 to study the behavior of chemical anticrop aerial sprays when released from high-speed jet aircraft. The Navy F3D jet fighter was used with Aero 14A Airborne Spray Tanks to disperse the anticrop agents.	Yes
Jacksonville,FL	7/18/1962- 7/21/1962	Purple, Fuel Oil, Mix	The HIDAL was used successfully on an H-34 helicopter to spray herbicidal materials. Therefore, it had not been calibrated previously. Spray tests were performed to do so. This was done under order by OSD/ARPA.	Yes
Eglin AFB, FL, C-52A test area	1962-70	Orange (1962-68), Purple (1962-68), White (1967-70), Blue (1968-70)	CPT John Hunter discussed vegetation changes and ecological studies of the 2 square mile test area which had been sprayed with herbicides over the period 1962-70.	Yes
Apalachicola National Forest near Sophoppy, FL	5/3/1967-5/8/1967	basic desiccants and Orange/Blue	During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on	Yes

	T			1
			formulations by chemical industry	
			and field tests by	
			USDA and U of HI	
Eglin AFB, FL	6/11/1968- 9/12/1968	orange, Bifluid #1, Bifluid#2, Stull Bifluid	A spread factor study was performed by the Army to correlate	Yes
			the spherical drop sizes of both Orange and Stull Bifluid defoliants. It	
			involved development of new techniques to determine spread	
			factors over an extended range of drop sizes. A	
			spinning cup drop generator was used.	
2 areas in FL, 2 areas in GA, and 1	1968	bromacil, Tandex,	In 1968, emphasis	Undetermined
in TN		monuron, diuron, and fenuron	was given to soil applied herbicides	
			for grass control. Applications were	
			made by a jeep-	
			mounted sprayer on small plots or by	
			helicopter on larger plots.	
GA and TN	1964	diquat and Tordon	In 1964, helicopter	Yes
		101, various	spray tests were conducted on	
			transmission line rights-of-way by the	
			Georgia Power	
			Company and Tennessee Valley	
			Authority in	
			collaboration with Fort Detrick to	
			evaluate	
			effectiveness of several	
			commercially available herbicides.	
Fort Gordon, GA	7/15/1967- 7/17/1967	in-house desiccants mixtures and	During the period of	Yes
	1,11,11207	formulations,	12/1966 - 10/1967, a comprehensive	
		Orange and Blue	short-term	
			evaluation was conducted by	
			personnel from Fort	

Processor Advantage - 100 mm -				
			Detrick's Plant	
			Science Lab in	
			coordination with	
			contract research on	
}			formulations by	
			chemical industry	
		e partie		
1			and field tests by	
	6/10/57 10/10/57		USDA and U of HI	
Kauai Branch	6/1967, 10/1967,	Blue,diquat,paraqua	During the period of	Yes
Station near Kapaa,	2/1968, 12/1967	t, Orange, PCP,	12/1966 - 10/1967,	
Kawai, HI		Picloram, White,	a comprehensive	
		HCA, 2,4,5T,	short-term	
		Endothall	evaluation was	
			conducted by	
			personnel from Fort	
			Detrick's Plant	
			The state of the s	
			Science Lab in	
			coordination with	
			contract research on	
	-		formulations by	
			chemical industry	
			and field tests by	
			USDA and U of HI	
State Forest area,	12/2/1966,	Orange, M-3140,	The purpose of this	Undetermined
3500 ft. elevation	12/4/1966,	TORDON ester,	project was to	Chactonimea
on slope of Mauna	1/12/1967	2,4-D ester, 2,4,5-T	evaluate iso-octyl	
Loa, near Hilo, HI	1/12/1907	ester		
Loa, near fino, fir		ester	ester of picloram	
			(TORDON) in	
			mixtures with	
			ORANGE, as a	
			candidate defoliant	
			agent, using	
			ORANGE as	
			standard. There	
			were personnel	
			from Fort Detrick	
			there.	
Hilo, HI	12/1966	Orange	Field tests of	Yes
11110, 111	12/1700	Orange	defoliants were	103
×				
			designed to evaluate	
			such variables as	
			rates, volume of	
			application, season,	
			and vegetation.	
			Data from aerial	
			application tests at	
			several CONUS and	
			OCONUS locations	
			l I	
			are provided in	
			tables. There were	
			Fort Detrick personnel there.	

77	1067	10	I B: 11.	
Kauai,HI	1967	Orange	Field tests of	Yes
			defoliants were	
			designed to evaluate	
			such variables as	
			rates, volume of	
			application, season,	
			and vegetation.	
		*	Data from aerial	
			The second of th	
			application tests at	
			several CONUS and	
		100000000000000000000000000000000000000	OCONUS locations	
			are provided in	
Y Y Y			tables.	
Vigo Plant CWS,	5/1945- 9/1945	LN (see attached)	Small plot	Yes
Terre Haute, IN		*phenoxy	experiments were	
			commenced to test	
		*	the effectiveness of	
			LN agents. Various	
			trials were done	
			under contract with	
			the USDA, aided by	
			personnel at Camp	
			Detrick. Here, it	
			was aerial trials	
			spraying field	
I offere - D.	C	T NT *1	grown plants.	X7
Jefferson Proving	Summer 1945	LN *phenoxy	Small plot	Yes
Grounds, Madison,			experiments were	
IN			commenced to test	
			the effectiveness of	
			LN agents. Various	
			trials were done	
			under contract with	
			the USDA, aided by	
			personnel at Camp	
			Detrick. Here, it	
			was dropping trials.	
Hays, KS, Langdon,	1960	stem rust of wheat	Two studies on the	Undetermined
ND			stem rust of wheat	- Shadermined
			were conducted	
			during 1960 to	
			obtain data on the	
			establishment,	
1 1 1			development, and	
			destructiveness of	
			artificially induced	
			stem rust	
			epiphytotics.	
Fort Knox, KY	1945	various	In 1945, a special	Yes
			project known as	
			Sphinx was	
			conducted jointly	
			by CWS and the	
			ARML to	
		1	LYMMIT IO	

Parallel 1997 1997 1997 1997 1997 1997 1997 199			7	
			investigate the use of chemical agents for increasing the flammability of vegetation prior to flame attack.	
Area B, Camp Detrick, MD	Spring/Summer 1953	3:1 mixture 2,4-D and 2,4,5-T	Personnel at Camp Detrick tested the feasibility of using an experimental spray tower for applying a mixture of chemical anticrop agents to broad-leaf crops.	Yes
Fort Ritchie, MD	1963	Tordon, 2,4-D, Orange, diquat, endothal, and combinations of each with Tordon	Various studies were done to explore the effectiveness of different herbicides. They were all field trials. These studies were done by personnel from the US Army Biological Laboratories.	Yes
Fort Meade, MD	1963	cacodylic acid, Dowco 173, butyediol	Various studies were done to explore the effectiveness of different herbicides. They were all field trials. These studies were done by personnel from the US Army Biological Laboratories.	Yes
Camp Detrick, MD-Fields A,B, and C	1946-1947	2,4,5-T, 2,4,5-T triethanolamine, tributylphosphate, ethyl 2,4-D, butyl 2,4,5-Ttriet 2,4-D,	The experiments were directed mainly towards the investigation of plant inhibitors applied as sprays or to the soil in the solid form to be taken up by the roots.	Yes
Camp Detrick, MD- Fields C,D, and E	1948	2,4,5-T, isopropyl phenol carbamate, LN-2426, 2,4-D	The experiments were directed mainly towards the investigation of plant inhibitors	Yes

	7		Officers to define contract or contract of the	
			applied as sprays or to the soil in the solid form to be taken up by the roots.	
Camp Detrick, MD-Fields C,D,E	1949	triethelyne. 2,4,5-T, carbamates	The experiments were directed mainly towards the investigation of plant inhibitors applied as sprays or to the soil in the solid form to be taken up by the roots. Experiments were done by Ennis, DeRose, Newman, Williamson, DeRigo, and Thomas.	Yes
Camp Detrick, MD-Fields A,B,D,E	1950	2464, butyl 2,4-D, 974, butyl 2,4,5-T, q:q 143 and 974	The experiments were directed mainly towards the investigation of plant inhibitors applied as sprays or to the soil in the solid form to be taken up by the roots. Experiments were done by Ennis, DeRose, Acker, Newman, Williamson, and Zimmerly.	Yes
Camp Detrick, MD-Field F	1950-51	2464, carbamate, butyl 2,4-D, 143 and 974 (orange?),2,4,5-T, 2,4-D, Orange	The experiments were directed mainly towards the investigation of plant inhibitors applied as sprays or to the soil in the solid form to be taken up by the roots. Experiments were done by Acker, DeRose, McLane, Newman, Williamson, Baker, Dean, Johnson, Taylor, Walker, and Zimmerly.	Yes

Fort Detrick, MD;	1956-1957	Lyaniana 577	To 1050 And 1057	T x7.
Fort Ritchie, MD	1930-1937	various, 577	In 1956 And 1957,	Yes
Fort Kitchie, MD		compounds	defoliation and	
			desiccation were	
			carried out at Fort	
			Detrick and Fort	
			Ritchie, Maryland	
			by the Chemical	
			Corps and	
			Biological Warfare	
			Research. These	
			were bench tests.	
Poole's Island,	7/14/1969-			X.
Aberdeen Proving	//14/1909-	Orange, Orange plus foam, Orange	During the week of	Yes
Ground, MD			7/14/1969,	
Ground, MD		plus foam Orange,	personnel from	
		Foam	Naval Applied	
			Science Laboratory	
			in conjunction with	
			personnel from	
			Limited War	
			Laboratory	
9			conducted a	
			defoliation test	
			along the shoreline.	
Fort Detrick, MD	8/1961-6/1963	1410 compounds	From 8/1961 to	Yes
			6/1963, compounds	1 00
			were spray-tested in	
			the greenhouse to	
			evaluate them as	
			effective defoliants,	
			desiccants, and	
NI XXI 1-	0/10/10/7	. 1 1 1	herbicides.	
Near Wayside,	9/19/1967	picloram, bromacil,	In 1967, the Dow	Undetermined
Miss., Wilcox		pyriclor, and	Chemical Company	
Road, Greenville,		terbacil, Orange,	was awarded a DoD	
Miss.		cacodylic acid	research contract.	
			The objective was	
			to prepare as pellets	
5-			mixtures of various	
			herbicides and to	
			test them on varying	
			vegetation	
			situations for the	
			control of a range of	
,			plant species.	
Fulcher Ranch,	4/15/1968	picloram and	In 1967, the Dow	Undetermined
Greenville,	1/13/1700	bromicil	Chemical Company	Ondetermined
Mississippi		or Omnen	was awarded a DoD	
1411221221hht				
			research contract.	
			The objective was	
			to prepare as pellets	
			mixtures of various	
			herbicides and to	
			test them on varying	
			vegetation	

			T	7
			situations for the	
			control of a range of	
			plant species.	
Gulfport, Miss.	1968-1970	Orange	While discussing	Yes
		-	the mandatory	
			disposal of Orange,	
			it was mentioned	
			that 15,161 drums	
			were being stored at	
			Gulfport,	
			Mississippi.	
Galatin Valley near	7/3/1953, 7/6/1953,	4- fluorophenoxy-	A preliminary series	No.
Bozeman, Montana	7/14/1953	acetic acid and 2 of	of field evaluations	110,
Bozoman, montana	7/14/1955	its esters, 3:1 butyl	of chemical agents	
		2,4-D and butyl	for attacking wheat	
		2,4,5-T	using a miniature	
		2,4,5-1		
			spraying system mounted on light	
			aircraft were	
			performed by USDA.	
Fort Drum, NY	1959	Ovence		Yes
Fort Drum, NY	1939	Orange	The Commanding	Y es
			General, 1st US	
			Army, requested that Ft Detrick	
			assist with	
			defoliation efforts at	
			Ft Drum. Thirteen	
	,		drums were sprayed there on 4 square	
			miles from a	
			helicopter spray	
			device.	
Stone Valley	3/1969-10/1970	bromacil, diuron,	Soil- applied	Undetermined
Experimental Forest	3/1909-10/1970	tandex, fenuron,	herbicides were	Ondetermined
in Huntington		picloram	studied by the U of	
County and near		piciorani	Pa with Ft Detrick	
State College in			for 18 months for	
Centre County, PA			their effectiveness,	
Centre County, 1 A				
			rapidity of action, and duration of	
			response in native	
			stands of central PA	
			grasses, broadleaf	
		FE. 2.11.1	weeds and woody	
			plants. These	
			herbicides were	
			spread or sprayed.	
Kingston, RI	7/26/1949, 1950-51	trieth.2,4,5-T, butyl		Yes
Kingsion, Ki	1120/1747, 1730-31	2,4,5-T,974	The experiments were directed	1 62
		۵,+,J-1,7/4	mainly towards the	
			investigation of	
			plant inhibitors	
		L	applied as sprays or	

			to the soil in the solid form to be taken up by the roots. Experiments were carried out under supervision of T.E. Odland if RI State College. H.T. DeRigo was also there.	
Beaumont, TX	6/1944	LN *phenoxy	Small plot experiments were commenced to test the effectiveness of LN agents. Various trials were done under contract with the USDA, aided by personnel at Camp Detrick. Here, they were testing on rice crops.	No
Marinette, WI, Weslaco, TX	5/1967-1/1969	arsenic compounds, Orange, cacodylic acid, sodium cacodylate	71 new arsenic compounds were tested in primary screening against 6 plant species in greenhouse tests. Then, 5 of the most active compounds were tested in field trials against Red Maple and compared to formulations of cacodylic acid and a 50:50 blend of orange and sodium cacodylate. The Ansul Co. for DoD.	Yes
Beaumont, TX	1950-51	2,4-D	The purpose was to determine means of accomplishing defoliation of tropical forest vegetation by application of a chemical agent. Here, irrigation water studies were done with the agent. Coghill, Hasse, and Yeatner worked here.	Undetermined

Cannita Danie III	Cyron on 1045	I T NT X-1-	I a 11 1 .	T x r
Granite Peak, UT	Summer 1945	LN *phenoxy	Small plot	Yes
			experiments were	
			commenced to test	
			the effectiveness of	
			LN agents. Various	
			trials were done	
			under contract with	
			the USDA, aided by	
			personnel at Camp	
			Detrick. Here, it	
			was dropping trials.	
Prosser,WA	1950-51	2,4-D	The purpose was to	Undetermined
			determine means of	
			accomplishing	
			defoliation of	
			tropical forest	
			vegetation by	
			application of a	
			chemical	
			agent.Here,	
			irrigation water	
			studies were done	
			with the agent. V.F.	
			Burns worked here.	
southeastern part of	6/1969	Orange	In 6/1969, the US	Yes
Kompong Cham	0,1909	Grange	government	103
Province and Dar			received notice of	
and Prek Clong			charge by	
plantations,			Cambodian	
Cambodia			government that	
Cumboula			major defoliation	
			damage to the	
			Cambodian rubber	
			plantation near the	
			RVN border had occurred as a result	
			of US defoliation	
			activity. This was	
	3		confirmed by a	
Page Gagetovin	6/20/1967-	hasia dagis	team of experts.	V
Base Gagetown near Fredericton,	6/24/1967	basic desiccants and	During the period of	Yes
The second secon	0/24/190/	Orange, Blue,	12/1966 - 10/1967,	
New Brunswick,		various	a comprehensive	
Canada			short-term	
			evaluation was	
			conducted by	
			personnel from Fort	
			Detrick's Plant	
			Science Lab in	
			coordination with	
			contract research on	
			formulations by	
			chemical industry	

	T	1	1 10 11	7
			and field tests by	
			USDA and U of HI	
Kumbla, South	1945-1946	LN compounds	The main objective	Yes
India	1745-1740	*phenoxy		Yes
India		phenoxy	of the experiments	
			was to determine	
			the feasibility of	
			accomplishing	
			severe injury or	
			destruction of	
			tropical food crops	
			by the application	
			of growth-inhibiting	
			(LN*) compounds	
			in static trials. Field	*
			plantings were	
			treated with various	
			agents at different	
			rates in different	
			forms.	
Korea, third	7/23/1968-	Hyvar XWS,	In 1968, chemicals	Yes
Brigade, 2nd	7/24/1968	tandex, Urox B,	were sent from the	
Division area		Urox Oil	Plant Sciences Lab,	
		concentrate	Ft Detrick, MD, to	
		(liquids) bromacil,	the Republic of	
		tandex, Urox 22	Korea for the	
		(solids)	purpose of testing	
			their effectiveness	
			in the control of	
			vegetation.	
Korea,2nd and 4th	8/1968	Hyvar XWS,	In 1968, chemicals	Yes
Brigades, 2nd		tandex, Urox B,	were sent from the	
Division area		Urox Oil	Plant Sciences Lab,	
		concentrate	Ft Detrick, MD, to	
		(liquids) bromacil,	the Republic of	
		tandex, Urox 22	Korea for the	
		(solids)	purpose of testing	
			their effectiveness	
			in the control of	
V (1.1.1	10/2/1000	TT 277770	vegetation.	
Korea, third	10/3/1968	Hyvar XWS,	In 1968, chemicals	Yes
Brigade, 2nd Division area		tandex, Urox B,	were sent from the	
Division area		Urox Oil	Plant Sciences Lab,	
		concentrate	Ft Detrick, MD, to	
	* *	(liquids) bromacil,	the Republic of	
		tandex, Urox 22	Korea for the	
		(solids)	purpose of testing	
			their effectiveness	
			in the control of	
			vegetation.	

T cos	12/10/5 10/5			
Laos	12/1965- 1967	Orange	In December 1965,	Yes
			herbicide operations	
			were begun in Laos,	
			with sorties being	
			flown from Tan Son	
			Nhut and Da Nang.	
			The purpose was	
			the exposure of foot	
			trails, dirt roads and	
			other LOCs that	
			crossed into SVN.	
			This network leads	
			from NVN, through	
			the eastern	
			panhandle, to	
			Combodian border.	
Las Marias, Puerto	2/1967- 12/1967	various, including	During the period of	Yes
Rico		Orange	12/1966 - 10/1967,	1 65
			a comprehensive	
			short-term	
			evaluation was	
			conducted by	
			personnel from Fort	
			Detrick's Plant	
			Science Lab in	Name of the second seco
			coordination with	
			contract research on	
			formulations by	
			chemical industry	A STATE OF THE STA
			and field tests by	
			USDA and U of HI	
Near Rio Grande,	8/23/1967,	picloram, bromacil,	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	T I 1-41
on the northeast	10/18/1967,	pyriclor, and	In 1967, the Dow	Undetermined
coast of Puerto Rico	12/21/1967-	terbacil	Chemical Company	
coast of 1 delto Meo	12/26/1967	terbacii	was awarded a DoD	
	12/20/1907		research contract.	
			The objective was	
			to prepare as pellets	
			mixtures of various	
			herbicides and to	
			test them on varying	
			vegetation	
			situations for the	
			control of a range of	The state of the s
			plant species.	
Loquillo, Puerto	4/1966, 10/1966	Orange	Field tests of	V/
Rico	1700, 10/1700	Orange		Yes
			defoliants were	
			designed to evaluate	
			such variables as	
			rates, volume of	
			application, season,	
			and vegetation.	
			Data from aerial	
			application tests at	
			several CONUS and	
THE RESIDENCE OF THE PROPERTY	**************************************		Soveral CONOS allu	

			OCONUS locations are provided in tables.	
At Sea	Summer 1977	Orange	In 1977, the USAF incinerated 2.22 million gallons of Herbicide Orange at sea in an operation entitled PACER HO. Extensive industrial hygiene sampling efforts supporting the transfer operations at Gulfport, MS and Johnston Island indicated all exposures were inconsequential (2-3 orders of magnitude below the TLVs for 2,4-D and 2,4,5-T).	Yes, Gulfport No, JI
Thailand	1964-1965	Purple, Orange, Others	Sponsored by ARPA; ARPA Order 423, Between the mentioned dates, there was a large-scale test program to determine effectiveness of mentioned agents in defoliation of upland forest or jungle vegetation representative of SEA.	Yes
Thailand	1964-65	Orange, Blue	Field tests of defoliants were designed to evaluate such variables as rates, volume of application, season, and vegetation. Data from aerial application tests at several CONUS and OCONUS locations are provided in tables.	Yes
Replacement raining Center of he Royal Thai	1964 and 1965	Orange, Purple	An extensive series of tests were conducted by Fort	Yes

Army near	Detrick during 1964
Pranburi, Thailand	and 1965 in
	collaboration with
	the Military
	Research and
	Development
	Center of Thailand.
	The objective was
	to perform onsite
	evaluation of
	phytotoxic
* *	chemicals on
	vegetation in SE
	Asia.

[Source: Agent Orange Newsletter | Summer 2015 ++]