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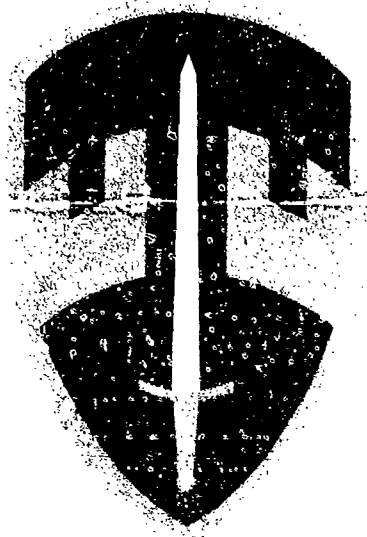
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UNITED STATES MILITARY ASSISTANCE COMMAND, VIETNAM  
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**COMMAND HISTORY**  
**1970**  
**VOLUME IV**

DAMH 79-23

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Checo, Air Operations, Titles, Number/Classification Index, Chronology, Glossary of Acronyms, Index A-Z			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This Volume IV, Command History, 1970, Military Assistance Command, Vietnam contains Letter of Promulgation, Title Page, Table of Contents, and Annexes H, I, J, & K:  Annex H - Reference Sources (Page H-1 - H-64). Annex I - Chronology (Page I-1 - I-58). Annex J - Glossary of Acronyms (Page J-1 - J-18). Annex K - Index (Page K-1 - K-64).			

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19 April 1971

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**VOLUME IV**  
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## ANNEX H

### REFERENCE SOURCES

(U) The annex was prepared to assist personnel doing research on activities in Southeast Asia (SEA). It is a pioneer attempt at listing "caches" of reference sources which are considered to be of significance to serious researchers and historians. It is hoped that this listing will lead to finding other "caches." If so, this annex will be updated and redistributed during the year. Contributions and suggestions are encouraged.

(U) Most of the printed documents are widely circulated and it is considered unnecessary to reproduce the voluminous distribution lists. Figure H-1 provides a listing of the documents and shows key reference centers which are on the distribution lists.

#### Air Operations

(U) Air operations in SEA are well documented in written reports and in data from automated sources.

#### CHECO Reports

(U) The largest contributor of written reports is Contemporary Historical Examination of Current Operations (CHECO), a division of the Directorate of Tactical Analysis of the 7th Air Force (7AF). The CHECO reports are written in the field, staffed by 7AF Headquarters, and published by the Pacific Air Forces (PACAF).

(U) CHECO is the oldest continuing USAF function in SEA and dates back to 1962. The basic approach to most studies is to document how an operation was conceived, how it is executed, and whether or not it succeeds. After the draft report is written, all supporting documents are microfilmed and kept as a package. By the end of 1970, CHECO had over 1 1/2 million pages of documents concerning operations in SEA.

(U) Although the reports focus on close air support and interdiction, there are reports on numerous subjects. Reports are distributed to every wing and air division in the USAF, all service headquarters, service schools, all unified commands, and to the Secretary of Defense. ( 1 )

(U) Following is a listing of CHECO Reports.

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## KEY RESEARCH LIBRARIES ON DISTRIBUTION LISTS OF REFERENCE SOURCES

	ACTIV Reports	Automated Data	CHECO Reports	MACV Combat Experiences	MACV Lessons Learned	NRDU-V Reports
Air University	X		X	X	X	
Armed Forces Staff College	X		X	X	X	
Army War College	X		X	X	X	
Figures H-2, 3, 4, and 5		X				
Industrial College of the Armed Forces	X		X	X	X	
Marine Corps Development and Education Center	X		X	X	X	
National War College	X		X	X	X	
Navy War College	X		X	X	X	
USAC&GS College	X		X	X	X	
White Oaks Naval Ordnance Laboratory Silver Springs, Md 20910						X

FIGURE H-1

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<u>Number/Classification</u>	<u>Title</u>	<u>Status Or Date Published</u>
20-1/TS	History of the War in Vietnam, October 1961 - December 1963 in VI Parts  Part I - Summary Part II - The Threat Part III - Political/Policy Influences Part IV - Command Structure/Relationships Part V - Air Operations Part VI - Support Activities	1 May 64
20-2/TSNF	Escalation of the War, July-December 1964	1 Jan 65
20-3/TS	First SAC B-52 Saturation Bombing in South Vietnam (Manuscript)	29 Jun 65
20-4/TS*	Barrel Roll 7	3 Jul 65
20-5/TSNF*	Yankee Team May 64-Jun 65	8 Mar 66
20-6/TSNF	Rolling Thunder Mar-Jun 65	28 Mar 66
20-7/TSNF	USA F Operations from Thailand 1964-65	10 Aug 66
20-8/TSNF	Tiger Hound	6 Sep 66
20-9/TSNF	Night Interdiction in Southeast Asia	9 Sep 66
20-10/TSNF	Evolution of the Rules of Engagement for Southeast Asia 1960-1965	30 Sep 66
20-11/TSNF	ArcLight - B-52 Strikes June-December 1965 (Manuscript)	9 Oct 66
20-12/TSNF	USA F Reconnaissance in Southeast Asia (1961-1966)	25 Oct 66
20-13/TSNF	Operation Tally Ho	21 Nov 66
20-14/TSNF*	Command and Control 1965	15 Dec 66
20-15/TSNF	The War in Vietnam 1965	25 Jan 67
20-16/TSNF	Air Operations in the DMZ Area, 1966	15 Feb 67
20-17/TSNF	Air Tactics against NVN Air/Ground Defenses	27 Feb 67

\* Indicates Air Force Eyes Only

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20-18/TSNF*	Control of Air Strikes in SEA 1961-66	1 Mar 67
20-19/TSNF*	Lucky Tiger Special Air Warfare Operations	31 May 67
20-20/TSNF*	Lucky Tiger Combat Operations	15 Jun 67
20-21/TSNF	Rolling Thunder July 1965-December 66	15 Jul 67
20-22/TSNF	Interdiction in SEA 1965-66	25 May 67
20-23/TSNF*	ARC Light 1965-1966	15 Sep 67
20-24/TSNF*	Operation Hickory	24 Jul 67
20-25/TSNF*	The War in Vietnam 1966	23 Oct 67
20-26/TS	Selected Notes Pertaining to 1966 Air Operations (Manuscript)	15 Aug 67
20-27/TSNF	USAF Operations from Thailand-1966 Air Operations	21 Oct 67
20-28/TS*	ARC Light January - June 1967	22 Mar 68
20-29/TS	Igloo White (Initial Phase)	31 Jul 68
20-30/TS	Air War in the DMZ January-August 67	20 May 68
20-31/TS/LD*	The Fall of Site 85	9 Aug 68
20-32/TS*	The Pueblo Incident	15 Apr 68
20-33/TS	College Eye	1 Nov 68
20-34/TS*	The USAF Helicopter in SEA	4 Dec 68
20-35/TS*	USAF Operations from Thailand 1 Jan 67 - 1 Jul 68	20 Nov 68
20-36/TS	Ammunition Problems in Southeast Asia 1966 (Manuscript)	1 Dec 66
20-37/TSNF*	Interdiction in Route Package One, 1968	30 Jun 69
20-38/TSNF	ECM and USAF Penetrations of NVN Air/Ground Defenses 1966-1968 (Manuscript)	7 Dec 68

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20-19/TSNF	USAF Support of Counterinsurgency in Barrel Roll Area (Manuscript)	1 Aug 69
20-40/TS	Rules of Engagement (1 Jan 66 - 1 Nov 69)	31 Aug 69 (sic)
20-41/TS/LD*	Post-Pueblo USAF Actions Korea/Japan (Jan 68 - Jan 69)	25 Aug 69
20-42, TS*	USAF SAC Operations in Support of SEASIA	17 Dec 69
20-43/TS/LD*	The EC-121 Incident, 15 April 1969	15 Mar 70
20-44/TS/LD*	The Cambodian Campaign (29 April - 1 July 1970)	1 Sep 70
20-45/TS	Cambodia (1 Jul - 1 Nov 70)	At PACAF
20-101/S	The Vietnamese Air Force Role in the Coup of 13 September 1964 (Manuscript)	Sep 64
20-102/S	Nguyen Cao Ky	1 Jan 67
20-103/S	Follow-Up to Bien Hoa Mortar Attack (Manuscript)	30 Jun 65
20-104/S	First Test and Combat Use of the AC-47 (Manuscript)	22 Jul 65
20-105/SNF	BLUEBELLS SINGING - Soviet Missiles Shoot Down F-4C over North Vietnam; USAF Retaliatory Strike - First Attack on SAM Missiles (Manuscript)	10 Aug 65
20-106/U	Civic Action Role of Air Power in the Republic of Vietnam	21 Sep 65
20-107/SNF	The Battle of Binh Gia	27 Dec 65
20-108/C	The Siege at Plei Me	24 Feb 66
20-109/C	Silver Bayonet	28 Feb 66
20-110/SNF	Operation Harvest Moon	3 Mar 66
20-111/S	The Fall of A Shau (Manuscript)	29 Mar 66
20-112/S	Attack Against Tan Son Nhut	8 Jul 66

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20-113/S	The Defense of Attopeu	16 May 66
20-114/S	The Defense of Lima Site 36	25 May 66
20-115/S	Operation Birmingham	29 Jun 66
20-116/S	AC-47 Operations (Manuscript)	14 Jul 66
20-117/S	US MIG Credits in Vietnam (Manuscript)	18 Aug 66
20-118/S	Operation Hawthorne	8 Sep 66
20-119/S	Operation Masher & White Wing	9 Sep 66
20-120/SNF	USAF Search and Rescue in Southeast Asia (1961-66)	24 Oct 66
20-121/C	Operation El Paso	30 Nov 66
20-122/S*	Assault Airlift Operations	23 Feb 67
20-123/S	Night Close Air Support in RVN (1961-1966)	15 Mar 67
20-124/S	Operation Attleboro	14 Apr 67
20-125/SNF	Second Defense of Lima Site 36	28 Apr 67
20-126/S	Operation Thayer/Irving	12 May 67
20-127/C	Operation Enterprise (The Battle of Doi Ma Creek) (Manuscript)	24 May 67
20-128/S	Combat Skyspot	9 Aug 67
20-129/C	Operation Paul Revere/Sam Houston	27 Jul 67
20-130/SNF*	USAF Posture in Thailand - 1966	28 Aug 67
20-131/S*	Short Rounds	28 Sep 67
20-132/S	Herbicide Operations in Southeast Asia Jul 1961 - June 1967	11 Oct 67
20-133/S	Air to Air Encounters over North Vietnam 1 Jan - 30 Jun 67	30 Nov 67
20-134/C	Operation Junction City	17 Nov 67

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20-135/S*	Counterinsurgency in Thailand 1966	8 Nov 67
20-136/C	Air Support for the 1st Air Cavalry Division (Manuscript)	28 Jan 68
20-137/S	Air Operations in the Delta	8 Dec 67
20-138/S*	Operation Neutralize	5 Jan 68
20-139/C	Ambush at XT 080570	29 Dec 67
20-140/S	USAF Search and Rescue (July 1966 - November 1967)	19 Jan 68
20-141/S	The War in Vietnam January - June 1967	29 Apr 68
20-142/C	USAF Civic Action in Republic of Vietnam	1 Apr 68
20-143/C	VC Offensive in III Corps October - December 1967	15 May 68
20-144/S	Rolling Thunder (Manuscript)	17 Nov 67
20-145/C	Battle for Dak To	21 Jun 68
20-146/S	Khe San (Operation Niagara) 22 Jan - 31 Mar 68	13 Sep 68
20-147/S	Organization, Mission and Growth of the Vietnamese Air Force 1949-1968	8 Oct 68
20-148/S	Single Manager for Air in SVN	1 Jul 68
20-149/C	Kham Duc	8 Jul 68
20-150/S	Air Response to the Tet Offensive 30 Jan - 29 Feb 68	12 Aug 68
20-151/S*	Short Rounds June 1967 - June 1968	23 Aug 68
20-152/S	The War in Vietnam July - December 67	29 Nov 68
20-153/S*	Riverine Operations in the Delta	1 Aug 68
20-154/S*	The EC-47 in Southeast Asia	20 Sep 68
20-155/S	Psychological Operations by USAF/VNAF in SVN	16 Sep 68

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20-156/S	Operation Delaware 19 Apr - 17 May 68	2 Sep 68
20-157/S*	Visual Reconnaissance in I Corps	30 Sep 68
20-158/S*	Seventh Air Force Tactical Air Control Center Operations	15 Oct 68
20-159/S	The Defense of Saigon	14 Dec 68
20-160/S	Truscott White	11 Dec 68
20-161/S	Operation Thor	24 Jan 69
20-162/S	Attack on Udorn 26 July 1968	27 Dec 68
20-163/S*	The ABCCC in SEA	15 Jan 69
20-164/S	VNAF FAC Operations in SVN	28 Jan 69
20-165/S	FAC Operations in Close Air Support Role in SVN	31 Jan 69
20-166/S	EB-66 Operations in SEA 1967	26 Nov 68
20-167/S	Air Traffic Control in SEA	14 Feb 69
20-168/S	Rivet Top 1 January 1967 - 30 June 1968 (Manuscript)	14 Nov 68
20-169/S*	Strike Control and Reconnaissance (SCAR) in SEA	22 Jan 69
20-170/SNF	USA F Posture in Thailand Jan - Dec 67	25 Mar 69
20-171/S	Impact of Darkness and Weather on Air Operations in SEA	10 Mar 69
20-172/S*	Tactical Electronic Warfare Operations in SEA (1962 - 1968)	10 Feb 69
20-173/SNF	COIN in Thailand Jan 67 - Dec 69	26 Mar 69
20-174/SNF*	Enemy Capture/Release of USAF Prisoners in SEA	15 Mar 69
20-175/	USA F Civic Action in Thailand	22 Mar 69
20-176/S*	Air Response to Immediate Air Requests in SVN	15 Jul 69

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20-177/S*	Single Manager for Air in SVN	18 Mar 69
20-178/C	The HUK Challenge in the Philippines	1 Mar 69
20-179/S	USAF Support of Special Forces in SEA	10 Mar 69
20-180/S	Tactical Recon Photography Request/ Distribution	15 Feb 69
20-181/S	Tactical Airlift Operations	30 Jun 69
20-182/S	Interdiction in SEA Nov 66 - Oct 68	30 Jun 69
20-183/S	USAF Search and Rescue Nov 67 - Jun 69	30 Jul 69
20-184/C	USAF Civic Action in Republic of Vietnam	17 Mar 69
20-185/SNF	Air-to-Air Encounters Over North Viet- nam (1 Jul 67 - 31 Dec 68)	30 Aug 69
20-186/S	Rolling Thunder (Jan 67 - Nov 68)	1 Oct 69
20-187/S	A Shau Valley Campaign Dec 68 - May 69	15 Oct 69
20-188/S	The DASCs in II Corps Tactical Zone (Jul 65 - Jun 69)	31 Aug 69
20-189/S	Defense of Da Nang	31 Aug 69
20-190/U	Project Red Horse	1 Sep 69
20-191/S	IV DASC Operations (1965 - 1969)	1 Aug 69
20-192/S*	Direct Air Support Centers in I Corps (Jul 65 - Jun 69)	31 Aug 69
20-193/S	Igloo White (Jul 68 - Dec 69)	10 Jan 70
20-194/S	TACC Fragging Procedures	15 Aug 69
20-195/S	Short Rounds (Jun 68 - May 69)	15 Aug 69
20-196/S	ArcLight (Jun 67 - Dec 68)	15 Aug 69
20-197/S	Reconnaissance in SEA (Jul 66 - Jun 69)	15 Jul 69
20-198/S	III DASC Operations	1 Aug 69

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20-199/SNF	7AF Local Base Defense Operations (Jul 65 - Dec 68)	1 Jul 69
20-200/S	Command and Control (1966 - 1968)	1 Aug 69
20-201/S	Airmunitions in SEASIA	15 Nov 69
20-202/S	USAF Posture in Thailand (1968-1969) (Research)	
20-203/SNF	Air War in the DMZ (Sep 67 - Jun 68)	1 Aug 69
20-204/SNF	Control of Airstrikes (Jan 67 - Dec 68)	30 Jun 69
20-205/S	Jet Forward Air Controllers in SEASIA	15 Oct 69
20-206/S	The Fourth Offensive	1 Oct 69
20-207/S	Riverine Operations in the Delta (May 68 - Jun 69)	31 Aug 69
20-208/S	SEASIA Glossary, 1961-1970	1 Feb 70
20-209/S	Rescue at Ban Phanop, 5-7 Dec 69	15 Feb 70
20-210/S	The Air War in Vietnam 1968-1969	1 Apr 70
20-211/S	Interdiction in III Corps CTZ - Project Dart (Manuscript)	10 Aug 69
20-212/S	The Role of Gunships in SEASIA	30 Aug 69
20-213/S	OV-10 Operations in SEASIA	15 Sep 69
20-214/S	The Siege of Ben Het	1 Oct 69
20-215/S	Tactical Control Squadron Operations in SEASIA	15 Oct 69
20-216/S*	Air Support of Counterinsurgency in Laos (Jul 68 - Nov 69)	10 Nov 69
20-217/S	USAF Air Tactics Against NVN Air/ Ground Defense,	30 Aug 69
20-218/TS/LD*	Air Operations in Northern Laos, 1 Nov 69 - 1 Apr 70	5 May 70
20-219/S	Second Generation Weaponry in SEA	10 Sep 70

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20-220/S	VNAF Improvement and Modernization Program	5 Feb 70
20-221/S	Air Support in Quang Ngai Province	25 Feb 70
20-222/S	Air Support for An Xuyen Province (Manuscript)	15 Mar 70
20-223/S	The EC-47 in SEA (Apr 68 - Jul 70)	12 Sep 70
20-224/S	Army Aviation in RVN - A Case Study	11 Jul 70
20-225/S	The RAAF in SEA - Special Report	30 Sep 70
20-226/C	Forward Airfields for Tactical Airlift in SEA	15 Jun 70
20-227/S	Interdiction in Steel Tiger	Research
20-228/S	USAF Tactics Against Air and Ground Defense in SEA (Nov 68 - May 70)	25 Sep 70
20-229/C	Commando Vault	12 Oct 70
20-230/S	Short Rounds	Coordination
20-231/S	Aero Medevac in SEA	Research
20-232/S	Tactical Air in Support of Ground Forces in Vietnam (Manuscript)	Sep 70
20-233/S	Impact of Geography on Air Operations in SEA	11 Jun 70
20-234/S	Command and Control	Research
20-235/S	Aerial Tanker Support	Research
20-236/S	USAF Aerial Port Operations in RVN	5 Aug 70
20-237/S	Defense of Dak Seang	Coordination
20-238/S	The Royal Laotian Air Force, 1954-1970	15 Sep 70
20-239/S	Air Defense	Temporarily Suspended
20-240/S	COIN in Thailand	Research

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AIR OPERATIONS

DATA FROM AUTOMATED SOURCES

File/Agency	Description	Type Data Available
OPREA/OJCS J-3 Opns Stat Br, Data Processing Div	Combat and non-combat air summary of Southeast Asia air operations	Aircraft losses by type, cause, area and casualties monthly data on sorties by function, area, service, and lift accom- plishments. (Source: OPREP- 5 messages)
CACTA/OJCS J-3 Opns Stat Br, Data Processing Div	Detailed combat air sortie data	CACTA - all sorties identifying mission, target, defenses encountered, ordnance expended aircraft damage and losses, results of mission. (Source: Combat Air Activities (COACT) reporting system).
DASC/OJCS J-3 Opns Stat Br, Data Processing Div (Limited Access)	Detailed attack sortie information from Direct Air Support center files on each attack sortie in SVN. (Some Cambodian sorties included)	Requesting unit, supporting service/nationality, AC type, mission timing, target type, controlling DASC and type of ground operation supported. (Source: DASC files)

SOURCE: OJCS J-3

FIGURE H-2

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20-241/S	USA F Search and Rescue	Research
20-242/S	Vietnamization of the Air War	Research
20-243/S	Waterways and POL Pipeline Interdiction, SEA	At PACAF
20-244/C	The Employment of Air by the Thais and Koreans in Vietnam	30 Oct 70
20-245/S	Air War in Northern Laos (Apr - Nov 70)	Coordination
20-246/S	Royal Thai Air Force	Research
20-247/SNF	Interdiction at Ban Bak, 19 Dec 70 - 5 Jan 71	Coordination

## Data From Automated Sources

(U) In addition to the JCS automated data on air operations (see Figure H-2), data is available from the 7AF Automated Command and Control System. The Southeast Asia Data Base (SEADAB) was developed to provide an automated mode for consolidating reported air activity in SEA. The data is extracted from reports submitted by operational units in response to requirements established by PACAFM 53-3 and supplemented by 7AF directives. ( 2 ) Specific items in the data base include:

<u>Item</u>	<u>Description</u>
1. Date	- retrievals are based on activity for a calendar day
2. Mission Number	- fraged mission number of attack sorties
3. Service	- out-country ( USA F / USN* / USMC ) in-country ( USA F / VNAF / RAAF )
4. Launch Base	- mission departure base
5. Unit	- parent organization of mission aircraft
6. Mission Call Sign	- fraged flight name
7. Aircraft Type	- model/design
8. Number fraged	- number of aircraft on mission
9. Mission Function Fraged	- type mission, e.g., Strike, Escort

\* Effective 1 Nov 69

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- |                             |   |
|-----------------------------|---|
| 10. Route Package Fragged   | -corps/zone/route package   |
| 11. TOT Fragged             | -time over target (Z or local)  |
| 12. Country Flown           | -in/out country mission identifier  |
| 13. Flown Data              | -actual number of aircraft flown on mission, type mission function flown, route package, flying time.                                       |
| 14. TOT                     | -last time over target (Z or local)   |
| 15. Day/Night Mission       | -self explanatory   |
| 16. Special Code            | -special operations identifier, e.g., COMMANDO BOLT, COMBAT SKYSPOT   |
| 17. Mission Deviation       | -type diversion and cause, e.g., air abort, cancellation, weather, directed by higher headquarters  |
| 18. Ordnance Jettisoned/RTB | -ordnance by type and quantity returned to base or jettisoned   |
| 19. Target Data             | -coordinates, ordnance expended (number/type), and bomb damage assessment (number/target type/results)                                      |
|                             | NOTE: Approximately 48 hours after mission termination, FAC reported BDA is used to update only reported BDA for out-country missions only. |
| 20. Aircraft Loss/Damage    | -type aircraft, unit, type loss/damage (combat/operational), cause, hit/down location, crew status, etc.                                    |

(11) All information in SEADAB is retrievable; however, most information is extracted through about 70 programs which retrieve the most frequently requested data. Requests for data not retrieved by existing programs must allow for the necessary computer program development time. The time required is dependent upon the availability of programmer resources and the complexity of the requirement. Variations in the information retrieved by the computer programs can be selectively controlled by using separate parameters in the following areas: ( 3 )

<u>Item</u>	<u>Description</u>
1. Time Period	-desired time span in calendar days

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- |                         |  |
|-------------------------|--|
| 2. Mission Function     | -approximately 80 type mission types are identifiable, e.g., FAC, Close Air Support, CAP, etc. |
| 3. Route Package        | -missions flown in selected route packages/zones or corps                                      |
| 4. Aircraft Type        | -by model/design   |
| 5. Unit                 | -by selected units   |
| 6. Launch Base          | -by selected bases   |
| 7. Day/Night            | -sorties flown day or night  |
| 8. Selected Coordinates | -activity within specified points of latitude/longitude (see note).                            |
| 9. Special Operations   | -missions identified in support of special projects, e.g., COMMANDO BOLT                       |
| 10. Country Flown       | -missions flown in or out country  |
| 11. Ordnance            | -expenditure of specific types of ordnance   |

NOTE: When data is to be requested for a geographical area other than corps or route package, the requestor must provide coordinates of opposite corners of the area to be searched; i.e., northwest and southeast, or northeast and southwest. The program will then compute a north-south, east-west oriented box to be searched, as illustrated below:



### Ground Operations

10: Ground operations are documented in practically all reference sources cited in this annex; however, the most impressive collection of studies was prepared by the Army Concept Team in Vietnam (ACTIV).

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## Army Concept Team in Vietnam (ACTIV) Reports

(U) Started in 1962, ACTIV's mission is to: ( 4 )

1. Conduct evaluation of new or improved Army operational and organization concepts, doctrine, tactics, techniques, procedures and materiel.

2. Accomplish research and development functions in the operational environment of the Republic of Vietnam, including management of the Expedited Nonstandard Urgent Requirements for Equipment (ENSURE) Program and the Vietnam Laboratory Assistance Program Army (VALPA).

3. Serve as the Army point of contact between the Military Assistance Command, Vietnam and the Department of the Army on combat development, materiel evaluation, and research and development matters.

4. Recommend improvements to increase the combat effectiveness of Army units of the United States, Republic of Vietnam and Free World Military Assistance Forces operating in the Republic of Vietnam.

5. Compile, analyze, and publish US Army concepts and techniques on stability operations in the Republic of Vietnam.

(U) The ACTIV reports are widely distributed (see Figure H-1) and most are classified CONFIDENTIAL or lower. Following is a listing of reports published since 1962 by date and subject:

<u>Subject</u>	<u>Date</u>
Air Mobility for the Army	26 Dec 62
.30 Cal MG Mount for Truck 1/4-Ton	17 Feb 63
Modification of Cal .30 Machine Gun Mount on the M114 C&R Vehicle	not dated
Aircraft High Frequency Singleside Band Radios (Prop. TP)	not dated
Operational Evaluation of Armed Helicopters	10 May 63
Employment of OV-1 (Mohawk) Aircraft in Support of Counterinsurgency Operations	25 May 63
Convoy Ambush Study	1 Jun 63
Deficiencies Discovered in M-3 Armament Subsystem	12 Aug 63
Vulnerability of an Aircraft During Takeoff	28 Aug 63
Employment of the CV-2B (Caribou) Airplane in Support of Counterinsurgency Operations	30 Aug 63

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Engineer Control and Advisory Detachments	15 Oct 63
After Action Report, Airmobile Operation, 30 Aug 63	11 Nov 63
Weldments - M113 Armored Personnel Carriers in Vietnam	19 Nov 63
Evaluation of an Aerial Vehicle (CH-37B) as a Tactical Recovery Vehicle	6 Dec 63
Mohawk Aircraft in the Target Acquisition Role	1 Feb 64
The Heliborne Public Address System for use in Psywar and Civic Actions	10 Feb 64
Field Expedients for Canal Crossing	15 Apr 64
Optimum Command Structure for US Army Aviation Units	22 Apr 64
Target Marking Heads for the 2.75-inch Rocket LSSFFAR	8 Jun 64
Mechanized Rifle Troop (M114)	25 Jun 64
Armored Cavalry Reconnaissance Troop (M114)	5 Jul 64
Airmobile Company in Counterinsurgency Operations	25 Jul 64
Tri-Lambrett's Audio-Visual Unit	30 Jul 64
Preliminary Investigation of Eagle Flight Operations in Vietnam	31 Aug 64
ARVN Psywar Printing Requirements in Support of Military Operations	12 Oct 64
Improved Weapons and Munitions (5Z-850.0) Individual and Crew Served	15 Oct 64
Assistant Crew Chief for UH-1 Helicopters	27 Oct 64
Armed Helicopter Escort of Transport Helicopters JRATA Project No IC-201.1	15 Nov 64
Armed Helicopter Reconnaissance and Area Surveillance Test Plan - 24 Jul 63 - JRATA Project No IC-201.2	15 Jan 65
Feasibility of Employment of an Airborne Acoustic Ground Fire Detector in Counterinsurgency Operations in Vietnam	20 Jan 65
Employment of the CV-2B Company in Counterinsurgency Operations JRATA Project No IC-204.1	28 Jan 65
Heliborne Command Posts JRATA Project No IA-102.0	31 Mar 65

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Consideration for Defense of US Advisory Compounds in the Republic of Vietnam	5 Apr 65
Considerations for Defense of Secondary Airfields in the Republic of Vietnam	5 Apr 65
Balloon Borne Radio Communication System JRATA Project No 1A-103.0	10 Apr 65
Employment of Artillery in Counterinsurgency Operations JRATA Project No 1B-153.0	25 Apr 65
Small Unit Pattern Analysis JRATA Project No 1B-152.0	5 May 65
Report on Helicopter Vulnerability	10 May 65
Radio Set AN/PRC-64 JRATA Project No 1A-105.0	15 May 65
Clothing and Equipment Used by US Army Personnel in Vietnam JRATA Project No 1B-162.0	10 Jun 65
Organization and Equipment of US Army Units	29 Jul 65
Employment of Bicycles JRATA Project No 1B-158.0	11 Aug 65
M-106/M-30 Weapon System JRATA Project No 1B-155.0	31 Aug 65
UH-1 Helicopter Shelters JRATA Project No 1A-109.0	1 Oct 65
Heliborne Illumination System JRATA Project No 2L-506.0	25 Oct 65
Infrared Night Vision Weapon Sight JRATA Project No 1B-161.0	25 Oct 65
Searchlight Illumination JRATA Project No 1B-160.0	30 Nov 65
Employment of the CH-54A Flying Crane JRATA Project No 1A-112.0	1 Dec 65
Employment of the Helicopter M-5 40mm Grenade Launcher JRATA Project No 1C-200.4	25 Jan 66
Load Carrying Device, Manpower JRATA Project No 1B-164.0	31 Jan 66
US Army Floating Aircraft Maintenance Facility, USNS Corpus Christi Bay JRATA Project No 1A-114.0	3 Feb 66
Border Cavalry - Letter Report	4 Feb 66
Employment of Airmobile ARVN Forces in Counterinsurgency Operations JRATA Project No 1C-201.1	9 Feb 66
Employment of US Army Aviation Company (Aerial Surveillance) in Counterinsurgency Operations JRATA Project No 200.2	9 Feb 66

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Armor Organization for Counterinsurgency Operations in Vietnam J R A T A Project No 1B-156.0	9 Feb 66
Night Airmobile Operations in RVN	17 Feb 66
Evaluation of the CV-7 (Buffalo) in the Counterinsurgency Environment	2 Mar 66
Mix of Armed and Lift Helicopters for Airmobile Operations	15 Mar 66
Effectiveness of the Popular Forces Motivation Indoctrination Program	21 Mar 66
Lightening Bug, Mission, Results	23 Mar 66
Demonstration of Visual Information Systems (Aerial Television)	25 Mar 66
Employment of the Helicopter 20mm Automatic Gun System XM-31 J R A T A Project No 1C-211.0	8 Apr 66
One Shot Hand Held, Expendable Flame Projector J R A T A Project No 1B-169.0	16 May 66
Forward Area Refueling Systems J R A T A Project No 1A-110.0	20 May 66
Value of Medium and Heavy Artillery in Vietnam	12 Jun 66
Informal Evaluation of the Aviation Medium Helicopter Company in Counter- insurgency Operations	21 Jun 66
Selective Aerial Spray System	21 Jun 66
Effectiveness of Training Presented by MTT Flanigan	23 Jun 66
Hunts Curing Compound, Dust Palliative	5 Jul 66
Modular Armor-Evaluation Plan AP-207-66	15 Jul 66
Evaluation of the Ventilated Flight Suit for OV-1 (Mohawk) Crews	18 Jul 66
Bar Armor Kit (M113) J R A T A Project No 1B-166.0	31 Aug 66
Lightweight Man-Portable Flame Thrower E36-7 (Modified M9-7) J R A T A Project No 1B-166.0	20 Sep 66
Personnel Marking and Detection System J R A T A Project No 1B-165.0	26 Sep 66
Firing/Observation Part Kits for M113 Armored Personnel Carriers	6 Oct 66
Flexible Tree Top Antenna - Letter Report	8 Oct 66
Manpack Detector, Chemical J R A T A Project No 1B-176.0	11 Oct 66

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Report on Feasibility Demonstration of AN/PRC-25 Antennas and Lighthouse Speaker	15 Oct 66
Role Effectiveness of US Advisors to the Army of the Republic of Vietnam Combat Units JRATA Project No 1B-178.0	8 Nov 66
Leech Repellent, Letter Report	8 Nov 66
Lightweight Clothing and Individual Equipment Tropical Combat Uniform	16 Nov 66
Essential Load of Scout Helicopters	17 Nov 66
Chemiluminescent Marker Panels	22 Nov 66
Large Capacity Tunnel Flushers - Letter Report	25 Nov 66
Evaluation of Helicopter - Mounted Motion Picture, High Magnification and Television Camera Systems ACTIV Project No ACL-9/67	30 Nov 66
Use of Night Vision Devices by US Army Units in Vietnam ACTIV Project ACG-25F JRATA Project No 1B-173.0	30 Nov 66
Tropical Combat Hats - ACTIV Project No ACL-84/67	6 Dec 66
Forest Penetrator Device ACTIV Project No ACA-3/67	15 Dec 66
Litter Devices, Helicopter Hoisting Operations ACTIV Project No ACA-2/67	19 Dec 66
Cartridge, 40mm, WP, SM-574 ACTIV Project No AAD-9/67	20 Dec 66
Chemiluminescent Hand Grenade ACTIV Project No ACG-20/67	20 Dec 66
Elevated Site Marker Balloon (Interim on Quick Fix System) ACTIV Project No ACL-89/67	22 Dec 66
Throat Microphone (Electro Voice P/N 678-4881) for Helicopter Door Gunners/Crew Chiefs ACTIV Project No ACL-60/67	27 Dec 66
Tropical Combat Neckerchiefs ACTIV Project No ACL-84/67	30 Dec 66
Evaluation of Tunnel Exploration Kit ACTIV Project No ACL-74/67	6 Jan 67
Increased Troop Lift by UH-1D Helicopters ACTIV Project No ACA-19/67	14 Jan 67
Evaluation of Crew Members Fire Resistant Slight Coveralls ACTIV Project No ACA-11/67	12 Jan 67
Operational Analysis of Automatic Weapons Units Requirements ACTIV Project No ACG-69/67	15 Jan 67

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Employment of Armed/Armored CH-47A in Counterinsurgency Operations	15 Jan 67
Evaluation of COER Vehicles in Vietnam ACTIV Project No ACL-90/67	26 Jan 67
Fiber Plastic Helicopter Landing Pad ACTIV Project No ACH-5/67	1 Feb 67
Grenade Carrier, M26 ACTIV Project No ACL-97/67	21 Feb 67
OH-6A Light Observation Helicopter ACTIV Project No ACA-12F	1 Mar 67
Field Demonstration-Citizens Band Radio ACTIV Project No ACL-6/67	24 Mar 67
Junglebuoy Radio Relay Repeater ACTIV Project No ACL-36/67	24 Mar 67
Lightweight Ammunition Tarpaulin, 12X17 Feet ACTIV Project No ACL-68/67	31 Mar 67
Electroluminescent Runway Marking System ACTIV Project No ACA-12/67I	13 Apr 67
Lightweight Jungle Hammocks ACTIV Project No ACL-66/67I	15 Apr 67
Can, Plastic, 5 Gallon Water ACTIV Project No ACL-91/67	26 Apr 67
12 Gauge Shotgun Shells ACTIV Project No ACG-64/67	27 Apr 67
Round, Multiple Part (Caliber .45 and .38) ACTIV Project No ACG-79/67I	27 Apr 67
CS Munitions ACTIVE Project No ACG-83/67I - 40mm ACG-84/67I - 105mm ACG-85/67I - 4.2 inch ACG-86/67I - 155mm	29 Apr 67
Final Report of Field Test, Sweeping and Removal of XM27 and XM40 Devices (U) ACTIV Project No ACG-82/67I	29 Apr 67
Sniper Operations and Equipment ACTIV Project No. ACG-87/67I	1 May 67
Jungle Canopy Platform System ACTIV Project No ACA-7F	1 May 67
Aerial Camera System, LWL 1564, Polaroid Camera ACTIV Project No ACA-38/67I	2 May 67
XM-148 Grenade Launcher ACTIV Project No ACG-67/70I	8 May 67
Smoke Marker, E-28 and Dispenser, E-14	8 May 67
Quick Erectable Base Station Antenna A5-2040/G ACTIV Project No ACL-95/67I	10 May 67
Disposable Magazines ACTIV Project No ACG-88/67I	11 May 67

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Proposed Aircrew Member Head Protection (UH-1 Armor Seat Headgear) ACTIV Project No ACA-10/67I	12 May 67
Air Transportability of the M116 Compared with the XM571 Carrier ACTIV Project No ACA 40/67I	12 May 67
Evaluation of Crew Member's Improved Fire Resistant Flight Coveralls ACTIV Project No ACA-45/67I	16 May 67
Airborne Personnel Detector for RVN Demonstration/Evaluation ACTIV Project No ACA-47/67I	27 May 67
Evaluation of Airborne Acoustical Ground Fire Detector (AAGFD) System ACTIV Project No ACA-37/67I	3 Jun 67
Lightweight Microwave Terminal Final Evaluation Report ACTIV Project No ACL-34/67I	10 Jun 67
Body Armor ACTIV Project No ACL-24/67I	
Commando Armored Car Units in Vietnam ACTIV Project No ACG-13F	17 Jun 67
Tropical Combat Uniform (Poncho and Ground Clothes) ACTIV Project No ACL-84-4/67I & 84.3/67I	19 Jun 67
Seismic Intrusion Detector ACTIV Project No ACG-48.1/67I	20 Jun 67
Improved Integral Smoke Generator ACTIV Project No ACA-35/67I	20 Jun 67
125th Air Traffic Company (Army) ACTIV Project No ACL-21F	28 Jun 67
Antipersonnel Recoilless Rifle Ammunition ACTIV Project No ACG-94/67I	29 Jun 67
Helicopter Mounted Remote View Image Intensification System ACTIV Project No ACL-23F	29 Jun 67
Australian Lightweight Sleeping Equipment ACTIV Project No ACL-85/67I	30 Jun 67
Employment of the Helicopter 20mm Automatic Gun System, XM-31 ACTIV Project No ACH-18F	30 Jun 67
Army Aviations and Support ACTIV Project No ACA-25F	6 Jul 67
Xenon Searchlight on M41A3 Tanks ACTIV Project No ACG-44/67	12 Jul 67
Claymorette Counter Ambush Weapon System ACTIV Project No ACG-10F	22 Jul 67
Acoustic Telescope ACTIV Project No ACG-1/67I	9 Aug 67

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AN/PRT-4 Power Amplifier AM-4763/RRT-4	ACTIV Project No ACL-48/67	17 Aug 67
Firing Platform, 105mm Artillery, Automobile (ENSURE)	ACTIV Project No ACA-11/67I	26 Aug 67
Patrol-Seismic Intrusion Detector	ACTIV Project No ACG-48.2/67I	29 Aug 67
Evaluation of M60 Machine Gun Ammunition Tray and Guide	ACTIV Project No ACA-25/67I	5 Sep 67
Final Report of Modular Armor	ACTIV Project No ACG-33/67I	6 Sep 67
Aircrew Protective Armor	ACTIV Project No ACA-55/67I	6 Sep 67
Improved Fire Direction Center Equipment	ACTIV Project No ACG-49/67I	7 Sep 67
Airborne Personnel Detector	ACTIV Project No ACA-47/67I	9 Sep 67
US Army Aircraft Supply and Maintenance in Vietnam	ACTIV Project No ACL-7F	19 Sep 67
Lightweight Two - Piece Rainsuits	ACTIV Project No ACL-19/67M	22 Sep 67
AH-1G Huey Cobra	ACTIV Project No ACA-8F	26 Sep 67
Improved M-79 Ammunition Vest	ACTIV Project No AXL-13/67	27 Sep 67
Car - 15 Submachine Gun XM177E1	ACTIV Project No ACG-44F	29 Sep 67
Battery Powered Fluorescent Lamps	ACTIV Project No ACL-7/67I	29 Sep 67
Airmobile Company, Light (32 Aircraft)	ACTIV Project No ACA-32F	10 Oct 67
Lightweight Nylon Jungle Rucksack	ACTIV Project No ACL-73/67	10 Oct 67
Field Evaluation of the Medical Company (Air Ambulance)	ACTIV Project No ACA-19F	25 Nov 67
Project Nightingale	ACTIV Project No ACG-3/67I	15 Nov 67
Ringtop Dispenser Systems for CH-47 and UH-1 Aircraft	ACTIV Project No ACA-29/67I	1 Dec 67
Water Supply in Vietnam	ACTIV Project No ACL-22F	6 Dec 67
AN/PRT Power Amplifier AM-4763/PRT-4	ACTIV Project No ACL-48/67	16 Dec 67
Silent Joe	ACTIV Project No ACA-15/68I	23 Dec 67

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Employment of the Armed/Armored CH-47A in Counterintelligence Operations ACTIV Project No ACA-1F	23 Dec 67
Site Marker AN/GRT-13 ACTIV Project No ACL-42/67I	10 Jan 68
Position Locator (LWL Task 03-P-63) ACTIV Project No ACG-35/67I	10 Jan 68
Evaluation of Fire Retardant Flight Gloves (NOMEX) ACTIV Project No ACA-63/67I	15 Jan 68
Project Cecaro Throw Away Transceivers and Ajeno Belt Transmitters ACTIV Project No ACL-8/68I	15 Jan 68
Evaluation of the Airborne Acoustical Ground Fire Detector System ACTIV Project No ACA-37/67I	22 Jan 68
M56 Nylon Lightweight Load Bearing Equipment (ENSURE 148) ACTIV Project No ACL-69/67M	24 Jan 68
Battlefield Illumination System ACTIV Project No ACG-24/67I	27 Jan 68
Kenner Ski Barge ACTIV Project No ACG-5/68	30 Jan 68
Vertical Reach Pendant ACTIV Project No ACA-44/67I	1 Feb 68
Aircrew Protective Armor ACTIV Project No ACA-55/67I	1 Feb 68
Position Marker ACTIV Project No ACG-59/67M	19 Feb 68
Sniper Operations and Equipment ACTIV Project No ACG-87/67I	23 Feb 68
Addendum B (Infrared Driving Binocular) to Final Report, Use of Night Vision Device by US Army Units in Vietnam ACTIV Project No ACG-25F	24 Feb 68
Antipersonnel Recoilless Rifle Ammunition (Beehive) ACTIV Project No ACG-94/97I	2 Mar 68
Dynalens Model S-023 ACTIV Project No ACA-20/68I	8 Mar 68
Manpacked Personnel Detector, Chemical E-63 ACTIV Project No ACG-45F	11 Mar 68
Herbicide Spray Can (ENSURE 20) ACTIV Project No ACL-12/68M	15 Mar 68
Program Review and Analysis Improvement System RVNAF (PRAISE) ACTIV Project No ACG-59F	21 Mar 68
Antenna AS-2109/PRC ACTIV Project No ACL-17/67M	30 Mar 68
Mine Firing Switch MFS-XI ACTIV Project No ACG-92/67M	10 Apr 68

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Surveillance Transmitter AN/TRT-26-XLW1-1 (U) ACTIV Project No ACG-3/68M	13 Apr 68
AN/TAQ-1A and AN/TKQ-2 Ground Sensor Terminals (GST) ACTIV Project No ACL-5/68I	24 Apr 68
Transient Voltage Suppressors for Tracked Vehicles ACTIV Project No ACL-10/67I	24 Apr 68
Multiple Part Round (.38 and .45 Caliber) ACTIV Project No ACG-79/67M	30 Apr 68
Hamlet Evaluation System Sludge (HES) ACTIV Project No ACG-60F	1 May 68
12 Gauge Shotgun Special Ammunition ACTIV Project No ACG-64/67I	4 May 68
Retrofitted Electroluminescent Runway Marking System (ERMS) ACTIV Project No ACA-61/67M	13 May 68
Evaluation of the QT-2PC Quiet Aircraft (Operation Prize Crew) ACTIV Project No ACA-18/68I	20 May 68
RVNAF XM706 Armored Car Units ACTIV Project No ACG-13F	24 May 68
Sensor Pilot Test (U) ACTIV Project No ACL-34/68I	24 May 68
Sandia Seismic Intrusion Detector ACTIV Project No ACG-48. 1T	26 May 68
Evaluation of the OH-6A (LOH) ACTIV Project No ACA-12F	30 May 68
Evaluation of Selected Munitions ACTIV Project No ACG-29/68I	7 Jun 68
A Field Evaluation of a Seismic Tunnel Detector ACTIV Project No ACG-29/68I	14 Jun 68
Sound Ranging Set AN/TNS-3 ACTIV Project No ACL-4/68I	15 Jun 68
Patrol Seismic Intrusion Detector ACTIV Project No ACG-48.2/67I	4 Jul 68
Omnidirectional Sound Locating Set AN/TNS-9 ACTIV Project No ACL-9/68I	4 Jul 68
Power Amplifier AM-4776 for Radio Set AN/PRC-74 ACTIV Project No ACL-16/67I	8 Jul 68
Visual Airborne Target Locator System ACTIV Project No ACL-39F	23 Jul 68
CS Munitions: Canister Cluster, Tactical CS 50 Pound F158R2 ACTIV Project No ACG-83-86.1/67I	1 Aug 68
Demonstration of the Deodar Tunnel Locator ACTIV Project No ACG-41.3/68M	12 Aug 68

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Infrared Miniaturized Intrusion Detector (IMID) ACTIV Project No ACG-48.3/67I	22 Aug 68
DUCK BLIND Evaluations (U) Interim Report ACTIV Project No ACL-41/68I	31 Aug 68
CS Munitions: Cartridge 4.2 inch: Tactical, CS XM630 ACTIV Project No ACG-83-86.2/67I	3 Sep 68
ELCO Landing Light System ACTIV Project No ACA-32/67I	3 Sep 68
Study and Evaluation of Countermine Activities, Volumes I - VII, Volume VI File Number 1301-07 ACTIV Project No ACG-61F	26 Sep 68
Clark Ranger Forklift ACTIV Project No ACL-29/68I	2 Oct 68
CS Munitions: Fuze and Burster Bomb: System XM920E2 ACTIV Project No ACG-83-86.3/67I	8 Oct 68
Decca Manpack Receiver ACTIV Project No ACL-21/67I	18 Oct 68
Wire Mesh Standoff Protection for Bunkers	29 Oct 68
Evaluation of Southeast Asia Mohawk Revision ACTIV Project No ACA-10/68	31 Oct 68
CS Munitions: Launcher and 35mm Cartridges: Tactical CS, 16 Tube, E8 ACTIV Project No ACG-83-86.4/67I	6 Nov 68
Evaluation of Camp Sentinel II Foliage Penetration Radar	6 Nov 68
Elevated Site Marker Balloon ACTIV Project No ACL-35/68M	10 Nov 68
Duffel Bag Evaluations File Number 1301-07	12 Nov 68
Final Report of Miniature CS Disseminator and XM58 CS Pocket Grenade ACTIV Project No ACG-83-86.5/67I	18 Nov 68
Grenade Launcher 40mm, Automatic, XM 174 ACTIV Project No ACG-21F	21 Nov 68
CS Munitions: Cartridge, 40mm: Tactical CS, XM651 and XM651E1	1 Dec 68
Evaluation of the AH-1G Helicopter ACTIV Project No ACA-8F	22 Dec 68
Evaluation of the Locally Fabricated Belch Minesweep	29 Dec 68
Artillery PD Fuze M557E1 ACTIV Project No ACG-21/68I	31 Dec 68
ARPA Big Screen Night Viewer ACTIV Project No ACG-42/68I	8 Jan 69
Air Cushion Vehicle (ACV), Final Report of Evaluation	10 Jan 69

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Forward Area Refueling Equipment ACTIV Project No ACL-42/681	11 Jan 69
Non-Powered Hair Trimmer ACTIV Project No ACL-43/681	13 Jan 69
Evaluation of Cesium Vapor Magnetometer ACTIV Project No ACG-8/691	14 Jan 69
Detection and Denial of Underground Positions ACTIV Project No ACG-54F	18 Jan 69
Evaluation of Camp Sentinel II Foliage Penetration Radar	27 Jan 69
Materials Handling Augmenter for Standard Truck-Tractor ACTIV Project No ACL-44/63M	11 Feb 69
VATLS REMOTE Gun Flash Detector System ACTIV Project No ACL-44/68M	4 Feb 69
Los Alamos Scientific Laboratory Acoustic Acquisition System ACTIV Project No ACL-5/681	12 Feb 69
Assault Trackway Systems ACTIV Project No ACL-28/681	13 Feb 69
CS Munitions: Dispenser and Bagged Riot Control Agent. Helicopter: CS2, XM28 ACTIV Project No ACG-83-86.7/671	18 Feb 69
CS Munitions: Cartridge, 105mm Tactical, CS, XM629 ACTIV Project No ACG-83-86.8/671	4 Mar 69
Balloon Borne Radio Relay ACTIV Project No ACL-33/68M	5 Mar 69
Evaluation of Personnel Services Companies TOE 12-67E	31 Mar 69
Final Report BLU - 52/B and BLU - 52A/B Chemical Bombs ACTIV Project No ACG-83-86.9/671	5 May 69
Evaluation of the Tunnel Explorer, Locator, and Communicator System (TELACS) ACTIV Project No ACG-2/691	13 May 69
M551 Sheridan ACTIV Project No ACG-2/691	20 May 69
Mine, Antipersonnel, Pop Up, PWP, XM54 ACTIV Project No ACG-11/681	3 Jun 69
Employment of US Psychological Operations Units in Vietnam ACTIV Project No ACG-47F	7 Jun 69
Decentralization Direct Support Aircraft Maintenance Concept in Division Aviation Units ACTIV Project No ACL-39/681	18 Jun 69
XM163 Vulcan Air Defense System ACTIV Project No ACG-64F	18 Jun 69
Heat Reflecting Paint ACTIV Project No ACA 8/681	21 Jun 69

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Employment of the Aviation Heavy Helicopter Company (CH-54A Flying Crane) ACTIV Project No ACA-21F	23 Jun 69
Multipurpose Helicopter Dropsight ACTIV Project No ACA-9/69I	10 Jul 69
Evaluation of 300 Watt, 28 Volt, Direct Current Hydrazien - Air Fuel Cell (ENSURE 80) ACTIV Project No ACL-10/69I	7 Aug 69
Articulated Cargo Carrier, XM571 ACTIV Project No ACL-24/68I	27 Aug 69
XM203 40mm Grenade Launcher Attachment Development ACTIV Project No ACG-14/69I	15 Sep 69
Evaluation of Remotely Operated Mine Detector ACTIV Project No ACG-32/67I	20 Sep 69
AN/TUS-3, 30 inch Xenon Searchlight ACTIV Project No ACG-12/69I	28 Sep 69
Evaluation of the Bulldozer Kit M113A1 ACTIV Project No ACG-5/69M	8 Oct 69
M72A1E1 Improved Light Antitank Weapon ACTIV Project No ACG-13/69I	22 Oct 69
Spectrolab FX-150, 9 to 20 KW, Helicopter Mounted Searchlight	26 Oct 69
Loran Manpack Receiver AN/PSN-2 ACTIV Project No ACL-33/67I	31 Oct 69
Evaluation of the XM8 Grenade Launcher for OH-6A Helicopter ACTIV Project No ACA-10/69I	12 Nov 69
Organization and Employment of US Army Field Artillery Units in RVN Volumes One and Two ACTIV Project No ACG-58F	12 Nov 69
Water Plastic Heavy Duty, High-Pressure Cleaning Equipment ACTIV Project No ACL-25/69I	15 Nov 69
Evaluation of the Marginal Terrain Assault Bridge Launcher M113A1 Armored Personnel Carrier ACTIV Project No ACG-34/68M	2 Dec 69
Lightweight Helicopter - Mounted Searchlight (ENSURE 2601) ACTIV Project No ACA-13/69I	22 Dec 69
60th Infantry Platoon (Scout Dog) (Mine/Tunnel Detector Dog) ACTIV Project No ACG-65F	2 Jan 70
Tunnel Weapon ACTIV Project No ACG-25/69I	12 Jan 70
Big Screen Night Observation Device ACTIV Project No ACG-36/69I	30 Jan 70
Evaluation of the Nighthawk System ACTIV Project No ACA-2/70I	30 Jan 70

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Night Flying Control System for UH-1	ACTIV Project No ACH-43/67I	2 Feb 70
Evaluation of the ARPA Motorized Big Light	ACTIV Project No ACA-1/70I	8 Feb 70
Use of Helicopters to Dissipate Fog	ACTIV Project No ACA-1/70I	17 Feb 70
Man-Portable Foliage Penetration Radar	ACTIV Project No ACL-9/69I	25 Feb 70
Ground Illumination Signals XM191, XM192, XM193	ACTIV Project No ACG-2/70I	2 Mar 70
Infrared Miniaturized Intrusion Detector	ACTIV Project No ACG-48.3	25 Mar 70
Portable Flame Weapon XM191	ACTIV Project No ACG-24/69I	27 Mar 70
Cartridge 152mm HE-T, XM657E2 for M551 (Sheridan)	ACTIV Project No ACG-30/69I	10 Apr 70
Secure Infrared Illuminator	ACTIV Project No ACG-28/69I	4 May 70
Improved Position Locator	ACTIV Project No ACL-19/69I	13 May 70
Sentry Dog Utilization in Military Police Operations	ACTIV Project No ACG-71F	21 May 70
Evaluation of the Marden Brush Cutter	ACTIV Project No ACG-7/70I	19 Jun 70
Discreet Signaling System	ACTIV Project No ACL-30/67I	4 Jun 70
Evaluation of the Remo Disc Harrow	ACTIV Final Letter Report, ACTIV Project No ACG-4/70I	20 Jun 70
Evaluation of Linear Mine XM61, Fragmentord	ACTIV Project No ACG-19/67I	6 Jul 70
XM706 Armored Car in Military Police Operations	ACTIV Project No ACG-70F	18 Jul 70
Aviation Flame Munitions	ACTIV Project No ACA-3/70I	22 Jul 70
Reduction of Reaction Time to Engage Enemy Targets	ACTIV Project No ACG-65F	22 Jul 70
XM191 Multishot Portable Flame Weapon	ACTIV Project No ACG-24/69I	22 Jul 70
Evaluation of the Infrared Viewer (AN/PAS-7)	Interim Report	12 Aug 70
Land Navigation System	ACTIV Project No ACL-4/70I	16 Aug 70
"Iroquois Night Fighter and Night Tracker" (INFANT)	ACTIV Project No ACA-49/67IS	21 Aug 70

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**GROUND OPERATIONS  
DATA FROM AUTOMATED SOURCES**

File/Agency <sup>1</sup>	Description	Type Data Available
GUAVA/OJCS J-3 Opns Stat Br, Data Processing Div	Ground operations of allied forces in Southeast Asia - July 69 to Feb 70. Contains data on friendly initiated operations only.	Battalion days of operations, results of large and small scale operations (casualties, equipment losses) by nationality. (Weekly, monthly and by named operation) (Source: MACV OPREP 4 and 5 messages)
SITRA/OJCS J-3 Opns Stat Br, Data Processing Div	Ground operations of allied forces in South Vietnam from Jan 70. Contains data on friendly and enemy initiated operations.	Same as above plus enemy initiated incidents and results thereof.
VCIA-VNDBA/OJCS J-3, Opns Stat Br, Data Process- ing Div	Enemy and friendly initiated incidents. VCIA File is a subset of VNDBA containing only enemy initiated incidents.	VCIA contains the time, location and results in terms of casualties/damage of each enemy initiated incident. VNDBA summarizes incidents by time, period and results. (Source: OPREP-4 messages)
AMFESMA (SEER)/ OJCS J-3, Opns Stat Br, Data Process- ing Div <sup>3</sup>	Monthly operational data on ARVN/VNMC units reported by US advisors	Casualties; mission assignments; operations by type, size and duration, average personnel strength, US and VNAF fixed wing and helicopter support to ARVN/VNAF categories of gunships, tactical air, airlift, MEDEVAC, resupply, naval gunfire, artillery; combined operations, operational results. (Source: Operational Statistics Reports by US advisors to ARVN/VNMC units)
INCI <sup>2</sup> /OJCS J-3, Opns Stat Br, Data Processing Div	Sightings and incidents in vicinity of Demilitarized zone and attacks on population centers.	Incidents containing time, place, ordnance used, activity, friendly reaction and results.
TEFSA-DISTRA/ OJCS J-3 Opns Stat Br, Data Process- ing Div <sup>3</sup>	Territorial force evaluation system-monthly operational and evaluation data on Regional and Popular forces	Missions, equipment status, strength, training proficiency, mission performance and problem areas for RF/PF tactical units. DISTRA contains results (opns, KIA etc.) data for district level analysis. (Source: US District and Province Senior Advisors)

1. Within DOD OJCS J-3 Data Processing Division is responsible for or capable of providing additional information/assistance.
2. MACV has initiated two sub-systems of SEER similar to AMFESMA/AMFESQA. They are NFES and AFES which contain operational reports and evaluations by US advisors of Naval and Air Force units respectively.
3. These files are closely monitored by OASD(SA) (REPRO).

SOURCE: OJCS J-3

FIGURE H-3

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Evaluation of the Tunnel/Cache Detector-Portable Differential Magnetometer (PDM) ACTIV Project No ACG-9/70I	21 Aug 70
Base Defense Foliage Penetration Radar ACTIV Project No ACL-9/69I	28 Aug 70
Fuze Rocket XM433 and Remote Set Subsystem ACTIV Project No ACA-5/70I	4 Sep 70
STANO III Unattended Ground Sensor Combat Evaluation ACTIV Project No ACL-16/69IS	20 Sep 70
Evaluation of the LASER Target Designator System (LTDS) ACTIV Project No ACA-42/67IS	22 Sep 70
Acoustiscore Aircraft-Mounted Gunfire Detection and Warning System (AGD&WS) for AH-1G ACTIV Project No ACA-4/70IS	11 Oct 70
Accountability, Classification, and Record/Reporting System for Captured Enemy Personnel ACTIV Project No ACG-72F	12 Oct 70
Evaluation of the YO-3A Quiet Aircraft System Interim Report	24 Oct 70
Airborne Cache Detection Systems ACTIV Project No ACA-10/70IS	9 Nov 70
AN/PPS-9 Lightweight Surveillance Radar ACTIV Project No ACL-21/69IS	20 Nov 70
Long Range Ground Surveillance Radar, AN/TPQ-34 ACTIV Project No ACL-12/69I	29 Dec 70

### Data From Automated Sources

(U) For a description of data available from automated sources see Figure H-3.

### Navy Operations

### Navy Research and Development Unit, Vietnam Reports

(U) Abstracts of reports on naval research, development, test, and evaluation activities are published semiannually by the US Navy Research and Development Unit, Vietnam (NRDU-V).

(U) The NRDU-V was established in August 1965 as the naval component of the Joint Research and Test Activity (JRATA). With the establishment of component commands in RVN it was deemed more appropriate for test units to be managed and controlled by their respective services. On 15 Nov 66 the Secretary of Defense, on recommendations of COMUSMACV and CINCPAC, abolished JRATA and NRDU-V became a unit of COMNAVFORV.

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The YO-3A "Quiet Aircraft" resembles a World War II P-51 Mustang. Tested in RVN as a night visual reconnaissance aircraft, it has thin wings from a popular civilian glider, a sophisticated muffler system, a six-bladed wooden propeller, and "...no extra frills on the... exterior which might make noise in the... wind."

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(U) The NRDU-V research, development, test, and evaluation program is based on requirements generated by US Navy and US Marine Corps forces operating in RVN. NRDU-V projects can generally be classified as follows:

1. Projects initiated under the Vietnam Laboratory Assistance Program and for which assistance from the various Navy laboratories is required.
2. Evaluation of Navy-developed equipment other than the Vietnam Laboratory Assistance Program generated equipment.
3. Evaluation of equipment which has been developed by other services and has Navy applications.
4. Evaluation of equipment designed and constructed using in-country resources.

(U) NRDU-V reports are not widely distributed and only a small number of addressees receive all reports. The White Oak Naval Ordnance Laboratory, Silver Springs, Md. 20916, probably has the most complete set of reports in CONUS.

(C) NRDU-V groups their projects into 11 categories and lists each as successful or unsuccessful. ( 5 ) A listing of projects by number, title, with a brief description and remarks on each project follows:

1. Boats (Hull, Armor and Machinery)

a. Successful

<u>Project Number</u>	<u>Project Title</u>	<u>Description And Remarks</u>
25	PCF Hull Corrosion	Correction of bilge corrosion problem in PCF. Zincs installed and coating applied.
39	PBR Trim Tabs	Trim tabs for increased performance of PBR MK1. Effective PCF1/68-2.
40	PCF Bow Freeboard Modification	Reduce amount of water taken over the bow. BOA TALT designed, but not actually approved for installation.
21-68	Project Douche	Fire Boat Pump (on LCM-6) for bunker destruction. Being used in-country (1 U.S. / 1 VNN).
35-68	PCF Fathometer	Raytheon Holiday MK II & III Converted MK III for future purchases.

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12-68	Improved Small Craft Mobility for Weed Infected Waters (Mech)	Weedless propellers and keel coolers for river assault craft. One boat outfitted in- country and successful. Modifications recommended.
45-68	Riverine Assault Craft Armor	Nylon ballistic blankets for cargo well. In use. Effective against fragments.
48-68	PBR Improvement Program	Recommended increase attention to boat maintenance, overhaul and loading.
58-68	Quiet Fast Boat	Boston Whaler powered by quieted outboard motor. One in-country.
105-68	PCF Armor	Bonded woven roving for fantail area. 25 sets produced and used by COMCOSRON ONE.
13-69	PBR Silencing	Acoustic silencing. MK I's modified during overhaul. Modified BOATALT deployed for MK I and improved mufflers for MK I and II.
34-69	ASPB Ballistic Canopy	Fantail protection. Prototype being produced.
44-69	Topper	Camouflage paints for PCF's (COMCOSRON ONE); used standard techniques and FSN paints.
51-69	Riverine Craft Armament	3.5 rocket pods. 30 ASPB now equipped.
56-69*	ASPB Fantail Ballistic Blanket	Prototype being produced.
63-69	PBR Fragmentation Blanket	Nylon ballistic blanket for canopy and forward mount. Two sets installed for evaluation.
11-70*	Douche Dredge	Eductor dredge mod for Douche Boat to clear loose sand and silt. Expected in August 1970. Not yet received.
13-70*	ATC Exhaust System	Mods to improve RAC exhaust system. Being fabricated and tested at NIO TC.
15-70*	MDS/FC (Houseboat)	Mobile dependent shelter made of Ferro- Cement. Boat completed and awaiting in- service evaluation.

\* Indicates project still in progress

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38-70	VIPER III Assist	Assist in improving building techniques and propulsion design of Ferro-Cement VIPER boat.
	b. <u>Unsuccessful</u>	
14	Ballistic Canopy for NTC and CCB type Craft	Bonded woven roving for overhead fragment protection. Not developed. Nylon Ballistic blankets developed.
18	Modular Armor for Riverine Craft	Became Project 28-68.
27	Bubble Canopy for PCF	Became Project 31-68.
1-66	Personnel Air Cushion Vehicle (PACV)	Two used by Army. Not used by Navy due to limitations.
19-67	Boat Silencing	Quiet outboard auxiliary motor for PBR. Not in use.
27-67	Bow Protection System for Small Craft	Mine countermeasure for lead boat. Not used due to ineffectiveness against contact mines.
5-68	Ballistic Canopy for River Assault Craft	Bonded woven roving for overhead protection on ATC. Not developed when ballistic blankets used.
11-68	Improved Small Craft Mobility for Weed infested waters (Herbicides)	Chemicals (2-4-D) applied to weed infested canals to kill weeds. Ineffective.
28-68	Modular Armor for Riverine Craft	Fragmentation protective mat. Desired protection achieved, but nylon ballistic blankets became available and were accepted.
31-68	Bubble Canopy for PCF	Design and fabricate transparent canopy for MT 51. Cancelled. Not required.
50-68	Fire Suppression Techniques for the PBR	Reduce hazard of fire in PBR fuel tanks due to shrapnel. Not in use. Freon flooding system found to be best and preflooded concept recommended.
79-68	SEAL Support Craft	Two boats modified in CONUS. In-country resources not available.

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43-69	PBR Hydrofoil	Lift augmentation to permit greater load. Feasible but impractical in riverine operations.
72-69	FBR Gunnel Guard	Improved gunwhale protection. Cancelled, NAVSHIPS for action.
82-69	Hydrofoil Skimmer	Hydrofoil-equipped Boston Whaler. No procurement. Not satisfactory for routine patrol work.

2. Projectile Defense/Detection

a. Successful. None

b. Unsuccessful

20-67	IR Small Arms Detector	Use aboard PBRs. Not used. High false alarm rate.
39-67	Counter Mortar Radars (CMR)	To locate in-coming rounds. Not effective.
42-68	Acoustic Small Arms Detector	Gunfire locator for boats. Need ceased to exist due to change in operational requirements.
57-68	Improved Counterbattery Fire	Aid for COMSEVENTHFLT units. Cancelled. Operational requirement ceased to exist.
32-69	Acoustic Mortar Locator (LASL)	Base defense aid. No procurement. Ineffective performance.

3. Technical Assist

a. Successful

9-70*	F/C Ballistic Test	F/C panels tested against AK-47, B-40 and B-41 rounds. Data now being analyzed by VNN.
18-70*	ACTOV Radar Assist	RVN coastal radar system. NRDU-V offer technical assistance has been accepted.
22-70*	F-C/PCF Evaluation	VNN Shipyard. Report in preparation.
23-70*	F-C Coastal Raider Evaluation	VNN Shipyard. Report in preparation.
24-70*	F-C Viper Evaluation	Viper II. VNN Shipyard. Report in preparation.

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b. Unsuccessful, None

4. Surveys and Studies

a. Successful

5	Survey of River Mine Counter-measures in Vietnam	Survey of procedures used in main channels to Saigon. Improved techniques resulted in more effective procedures.
44	SAR Capability in NVN	Study of pilot radios and recovery systems. Became non-VLAP R&D.
11-67	Protection of Mobile Riverine Bases	Studied vulnerability of APB to 57/75mm recoilless rifle fire. Limited bar armor installed.
18-67	COMNAVFORV Operational Requirements Study (Completed by NLAAG)	Review of OP requirements. See semiannual significant problems report.
23-67	Survey of the Saigon, Nha Be, Long Tau Rivers	In support of development of high resolution minehunting sonar and influence mine counter-measures.
43-68	Data Collection Team	Data on river craft vulnerability and requirements. Report published for application of results to design of future generation craft.
66-68	Pressure Measurement	Obtain pressure signatures of small craft in shallow water. Data useful for MCM development.
76-68	Feasibility Study of Various Psyops Devices	81mm claxon round was developed (See Project 55-69).
74-69	River Conductivity	Data Collection for "Denial" system deployment. Successful. Recommendations made.
33-70*	Shallow Water Sensors	A study to evaluate sensor needs and requirements. In-country survey completed.

b. Unsuccessful

47-68	Tunnel Detection Feasibility Study	A tunnel mapping and electrical denial system. Not used. Impractical to attempt tunnel mapping.
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14-69	Battery Manual	Manual of test procedures to determine battery life. Not feasible to document.
5. Survival and Safety		
a. <u>Successful</u>		
32-68	Personnel Flotation Equipment	Automatic inflating life vests. New inflator and vest developed.
67-68	Protective Eye Devices	Eye visor for M1 steel helmet. Recommended for development. However, no production requests from NAVFORV.
82-68	Improved Survivability for UH-1B	Armor seat and nylon ballistic chin bubble pad. In use. Installed on some Seawolf helicopters.
7-67	Buoyant/Ballistic Fragmentation Protective Vest	Not used. No requests for item. Some improvements required for production models.
b. <u>Unsuccessful</u>		
40-67	Buoyant/Ballistic Fragmentation Protective Vests	Ceramic armor vest with foam flotation. Not used. Unsatisfactory in many respects.
17-69	Improved Mil-B-12370 Fragmentation Vest	Vest with plastic stiffeners to prevent bunching of nylon. More improvements recommended.
c. <u>Communications</u>		
a. <u>Successful</u>		
8-67	Agent Radio	Portable communications system to coordinate VN Agent/US Operations. Recommended procurement.
14-67	Signal Pyrotechnics for Small Craft	Evaluation of various smokes and signal devices. M128A1/MK129A1 Smokes and MK127A1 Signal used. Status of .38 cal signal cartridge unknown.
25-67	Infra-Red Surveillance and Signalling Devices (SIRC)	1. IR light telephone for PBR's. 2. Distress marker (strobe light) with IR filter. 3. Flashlight rotating beacon with IR filter limited use by SEALs.

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36-67	Commander River Assault Flotilla ONE Communications	VHF radio improvements. In use.
53-68	PG Communications	Secure radio communications improvement. Recommended new equipment.
59-68	Psyops Recorder	Tape cassette production machine. VNN have Psyops equipment. No tactic for use.
12-69	Balloon Antenna	Duffel Bag antenna system. Improved antenna system provided.
84-69	Audio Induction Loop	Wireless PBR crew communication. Highly successful and in use.
6-70	Telescopic Antenna	Hydraulically raised and lowered mast for Duffel Bag sites. Two masts in-country by September.
	b. <u>Unsuccessful</u>	
41	PG Communications	Became 53-68.
48	VLF Radio	Very low frequency radio for use in heavy jungle. Cancelled. Impractical.
5-67	Variable Attitude Loudspeaker	2000-foot aircraft towed system (SA-1800C). Not known if in use. For helo to hover above small arms range and reduce noise level.
33-67	Underwater Telephone	Secondary Comm for PBRs. No procurement. Unsuccessful.
85-68	Improved Whip Antenna	Delta region comm improvement aid. Terminated. No specific problems defined.
96-68	Marine RDF	VHF Radio Direction Finder. No procure- ment. System lacked accuracy.

7. Weapons/Explosives/Ammunition

	a. <u>Successful</u>	
11	81mm Mortar (MK2 Mod 0), Bore Cleaning and Gauging Tools	Combining all cleaning equipment for 81mm Mortar in a carrying case. In use. 20 Kits provided.
20	Fuel Air Explosive Device	Became Project 73-68

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31	81mm Water Entry Cartridge	Antiswimmer fuze for standard 81mm cartridge. Used in NTSDS. 10,000 produced.
36	M16 Silencer	ORDSYSCOM Project effective, but limited, use. For SEAL Teams.
38	Modified Ammo Containers for Swift Boats	Larger Ammo can for after .50 cal. Produced in-country.
49	XM-177 EL/CAR-15	Scaled down M-16 were available for evaluation.
30-67	Fuel Air Explosives Device (FAE)	Hand emplaced FAE for clearing minefields. New generation under CONUS evaluation.
13-68	Malfunctioning Mortar Rounds	Malfunction due to moisture. Waterproofing investigated. Army system adapted.
55-68	PCF After .50 Cal Mount Modification	Larger ammunition can. In use, produced in-country.
60-68	MK 19 40mm High Velocity Grenade Launcher	In production. Has safety and reliability problems. See NRDU-V 34-70.
64-68	MK 48 Gun Mount Modification	Provided manual backup system when electrical operations fail. ORDSYSCOM project now updating MK 48 Gun Mount.
71-68	40mm Floating Smoke Marker	Low velocity red smoke grenade. No procurement. Army smoke marker determined to be better smoke.
1-69	MK 115A Destructor	Information available on a need to know basis only.
18-69	MK 4 Mod 0 60mm Mortar	In use. Approximately 120 units on PBR's.
21-69	Fogged Vision Blocks	For MK 48 gun mount on ASPB. In production. Will replace acrylic blocks.
22-69	50 Round Magazine	For the M-16 rifle. Very effective, but only small requirement made known.
28-69*	60mm Canister Round	Mortar shotgun round. Untested rounds in shipment.
33-69	60/60 Piggyback	60mm mortar - M60 MG for PBR. In use on all 60mm mortars.

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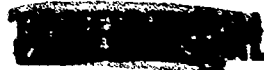
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49-69	ACTOV .50 Cal Loading Assist	Twin .50 cal MG jacking assist for VNN personnel. 105 sets now installed. Production based on demand.
65-69*	PBR Mini-Gun	7.62mm 4,000 round per minute G.E. 6X barrels.
69-69*	105mm Indirect Firing	Mido panoramic telescope. One installed. Under evaluation.
87-69*	PBR Incendiary Stores Protection	Armor and storage racks for incendiaries. Study of protection requirements in progress.
8-70*	MK 19 Loading Assist	For VNN personnel to jack the high velocity grenade launcher. Prototype being produced in CONUS.
16-70*	TINDERBOX	Use of petroleum as fire ignition devices, anti-personnel weapons and defoliants. 2,000 fuzes and adaptors ready for evaluation.
34-70*	MK19 Improved Sear	High velocity grenade launcher safety and reliability improvement. In progress.
35-70*	Modified .50 cal Barrel	To decrease the projectile range of std .50 cal MG. In progress.
39-70	Concussion Grenade Water Entry Fuze	Develop a water-activated fuze for anti-swimmer concussion grenade.

b. Unsuccessful

8	XM-148 40mm Grenade Launcher	Single-shot, rifle-mounted (M-16). No procurement. M-79s used in lieu of.
10	Counterweight for PBR After .50 Cal Mount	Balance for mount when M-16 grenade launcher removed. No procurement. Degree of difficulty with balance did not justify counterweight.
13	60mm Mortar for Small Craft	Army mortar evaluation for PBR. No procurement. UNSAT - New USN 60mm mortar to be evaluated. See project 19-60.
17	M524 Fuzes for 81mm MK2 Navy Mortar	Long delay element for booby trap and self destruct proposed. Requirement terminated.



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19	Malfunctioning Mortar Rounds and Grenades	Waterproof coating for charge increments. Army developed mortar round and grenade adopted.
20	Fuel Air Explosive Device	Became Project 30-67.
32	40mm CS-2 Grenades	Became Project 73-68.
45	60mm Mortar	Army mortar for PBR. New Navy MK4 became available.
47	Time-Operated Target Marker	Became Project 103-68 with a modified timer.
4-67	Claymore HE Counter-Ambush Weapon (CDM-IA) as installed on Small Craft in Vietnam	For riverine operations. Not used. Problems in firing circuit and lack of requirement.
13-67	Long Range 40mm Grenade Launchers	Army XM129 grenade launcher. Not developed. MK 19/MK 20 issued in lieu of.
20-68	Small Craft IFF (ID Lights)	Identification aid. Project Cancelled. No operational need.
29-68	MK II PBR MK 50 Mod 0 Gun Mount	Test installation of 20mm cannon and MK 19 GL in the MK 50 mount. Ammo feed problems. Cancelled.
30-68	Starrfrag	Sheet plastic explosive with fragments implanted. Not used. Claymore more effective.
46-68	Improving Battlefield Illumination System	Parachute flare (XM184). Not used. Very sensitive to damage prior to use.
49-68	40mm Grenade Fuzes	VT fuze for high velocity round. Not procured. More R&D for better reliability.
61-68	M-22 Guided Missile	Wire guided missile for helo. Not required. No large targets.
63-68	Increased Rate of Fire Weapons	Cal. 50/.50 squeezebore. Five Cal. 30 projectiles from one Cal. 50 slug. Not in use. Modified system under test in CONUS for 2nd in-country evaluation.
73-68	40mm CS-2 Grenades	High Velocity round. No procurement. Launcher not reliable.

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78-68	40mm Grenade Het Cartridge	Tracer round. Cancelled. Over a year lead time.
80-68	Marine Shotgun	12 ga. Model 10 police shotgun. No procurement. Not recommended for combat use.
89-68	Radio Frequency Hazard to Command Detonated Claymore Mines	Quick fix for claymore firing devices. Cancelled. No requirement.
100-68	Woodchopper	Continuous rod weapon for clearing helo landing zones. None procured. Did not completely clear large trees.
103-68	Time Operated Target Marker	Timer operated flare. Not used. No tactical requirement.
70-69	EX143 Mod 0 Flare	M79 launcher flare. Not in production. Sample lot fired in RSSZ.
12-70	Balloon Position Marker	Down pilot balloon marker. Cancelled. Failure rate excessive in CONUS tests.

8. Sensors and Surveillance

a. Successful

3	Nol EX15 Contraband Detector	Magnetic detector. Various units in-country production limited to requests.
42	PSID	Patrol Seismic Intrusion Device. Used on ambushes. In use.
43	Project CESARO	Dynalens Image Stabilization System for handheld viewing devices. Recommended for PSR use.
28-67	Image Intensification Device (IID) Mounts	Mounts for NODs for riverine craft. Recommend procurement for NODs but not for starlight scopes.
31-67	Trail/Road Interdiction Multi-Sensor (TRIM) Aircraft	P2V aircraft for truck convoy detection. No longer in-country.
32-67	Remote Underwater Detection Device (RUDD)	Expendable hydrophone sensor for watercraft detection. 200 sensors and 5 control units built. Available for use.

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37-67	Polaroid Filters	Filters to reduce glow and night blindness. Filters procured for Raytheon 1900 radar. Decca 202 radar filter's disadvantages outweighed advantages.
69-68	PG Radar	Raytheon 2502S reliability improvement. Recommended shock mounts.
72-68	Duffel Bag	Sensor deployment and operations in RVN. NRDU-V provided RTD&E. See Project 1-70.
91-68	Daylight Vision	Binocular comparison study. F.S.N. binoculars used. U.S.A. civilian makes better than small Japanese makes.
106-68*	Area Marking System	Sampan marking system. Uses controlled life dyes on water surface. Under evaluation.
15-69	MIDS II	Magnetic intrusion sensor for personnel/vehicles. In use. Very successful.
27-69	Karr LN55V Small Boat Radar	PBR radar. Procurement unknown. Highly successful results.
37-69	SEA LORDS Van	Duffel Bag monitoring stations. No procurement. Two units shipped to CONUS.
57-69	Hand Held Thermal Viewer	Vision based on temperature of objects. Prototype being evaluated.
60-69	PDSI	Personnel detection system. Procurement unknown. Recommended for use with starlight scope.
85-69*	Navigation Transponders	Personnel/Small Craft Location/Tracking Aid. Evaluation in progress by SEALS.
1-70*	Duffel Bag	Continuing Project. Monitored by NRDU-V.
2-70*	Thumbtack	Lightweight seismic/acoustic sensor. For sampan detection. Evaluation in progress.
3-70*	Covert Personnel Detector	Highly successful. Need to know only (SECRET-NOFORN). No procurement to date.

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20-70*	No Doz	Base Defense Sensors. Evaluation in progress.
21-70*	Riverine Folpen Radar	Foliage penetration radar to detect moving personnel. PPS-14 radars will be evaluated.
32-70*	Iron Barnacle	Two Navy UH-2D helos with ASQ-81 magnetic detection sets for cache detection. Under evaluation.

b. Unsuccessful.

4	AN/SQS-19 Small Boat Sonar	Minehunting device for riverine environment. Not used. Evaluated as NRDU-V Project 24-67 Ineffective.
6	Low Light Level Television	Remote viewing image intensification system for UH-1 helo. Not used. Became 9-68 during evaluation.
12	River Reconnaissance System	Monitor development of camera-equipped one-man lay-down craft as reconnaissance vehicle. Evaluated in-country under NRDU-V Project 2-68.
15	Ku Band Beacon	Became Project 10-68.
22	Contraband Detection	Became Project 26-68.
23	Infrared-Filtered Searchlights	Searchlight not covert.
26	Helmet-Mounted Infrared Binoculars	Became Project 8-68.
28	Improvement of Existing Counter-Mortar Radars	Became Project 39-67.
33	Illicit Traffic Labelling	Became Project 56-68.
34	Loran C Backpack	Became Project 102-68.
52	Sampan Sweeper	Hand held device to detect contraband secured under sampans. Too cumbersome.
1-67	AN/UQS-1 Sonar	For detection of surface swimmers and mines. Not used. SQS-19 more cost effective.

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2-67	Image Intensification Devices (IIDs)	Forerunner of starlight scope. Not used. Improved models in stock.
12-67	Decca Navigator	Radio navigation for RSSZ. Not used. Accuracy insufficient.
24-67	AN/SQS-19 Sonar	Not used. Marginal capability against small mines.
2-68	Aqua-Dart Reconnaissance System	One man lay-down water craft equipped with camera and depth recorder. Returned to CONUS due to vulnerability to hostile fire.
4-68	Battlefield Illumination System	Launcher with 12 parachute flares for use by PBR. Recommend further R&D to develop reliable parachute and fuze.
7-68	Infrared Filtered Searchlight	Improved visibility device for riverine craft. No procurement. Ineffective.
8-68	Helmet-Mounted Infrared Binoculars	Night observation device adapted as vehicle driving aid. No procurement. Ineffective.
9-68	Low Light Level Television System for UH-1 Helicopter	Surveillance and target acquisition. Unsuccessful. Not adaptable.
14-68	RAID (Riverine Acoustic Intrusion Detection)	Acoustic buoy for detecting river crossings by powered sampans. Concept not feasible in narrow and shallow water.
17-68	Personnel Detector	Starlight scope plus IR illumination device. No procurement. Not covert. Lacks detection capability.
25-68	Clandestine Listening Devices	AN/TRT-26 Surveillance Transmitter. No procurement due to technological problems.
26-68	Contraband Detection (Project Counter Detect)	Magnetic inspection. Project cancelled pending development of new gradiometer.
37-68	Area Marking System	Became Project 106-68. Successful. In progress.
38-68	Mark Systems Image Stabilized Binoculars	For PBR use. Found unsatisfactory by most users. Units at NRDJ-V.
44-68	Limpet Mine Detection	Determine detection range of MK 10 and MK 15 ordnance locators against Russian limpet mines. Not effective for use in hull searches.

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74-68	24" Parabolic Listening Device	For SEALs and PBR use. No procurement. Ineffective.
84-68	MSD Bank Sensor	Automatic bank contour navigation. Cancelled. Units not effective.
86-68	Underwater TV	Use of TV for underwater hull inspection by EOD teams. Not used. Too cumbersome and did not increase search rate.
87-68	Radar DF	Homing device for small boat and PBR use. Terminated. Unsuitable for use.
102-68	Loran-C Manpack	Marine patrol position locator. No procurement. Poor performance of system.
2-69	PPS-5/PPS-6 Test	PBR Radars. Not suited for riverine use. Preliminary design completed.
7-69	AN/PPS-10	PBR Radar. Not suited for riverine use.
24-69	Waterborne Employment of AN/PPS-5 Radar	Not suited for riverine use.
25-69	PBR Radar Reflector	Navigational aid. No procurement. Insufficient radar coverage.
30-69	MTI Radar RCA 4019 M2	Riverine personnel detector. No procurement. Lack of ruggedness.
36-69	Super Sight	Radar for gun sight. N.A. Project terminated due to size and weight limitations.
38-69	Patrol Craft Transponders	Tracking aid. Commercially available equipment applicable for stable door.
40-69	Underwater Noise Detector	Hydrophone to detect swimmers. Unsuccessful. Insufficient acoustic coupling.
41-69	High Explosive Remote Underwater Detection Device (HERUDD)	Hydrophone coupled with large explosives for small craft interdiction. No procurement. Unreliable due to water leakage.
46-69	Long Range Underwater Detection Device (LORUDD)	Range extension of RUDD. Further development ceased. Impractical.
47-69	PBR Personnel Detection Radar	AN/PPS-10 and CO20SA. No procurement. Not applicable for riverine use.

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53-69	Small Starlight Scope	AN/PVS-3. No procurement. AN/FVS-2 superior.
54-69	Hydro-Acoustic Sensor	Waterborne sensor. Cancelled. DCPG work paralleled.
62-69	Loran Locator	Personnel back pack locator/tracking systems. All systems returned to CONUS.
67-69	AN/TPS-25 Radar	LCM-6/ATC Radar. Not adaptable for boat use.
86-69	Riverine Cache Detector	Boat mounted detection system. No procurement. Supplied system did not meet specification.
7-70	Water MIDS	Adaptation of MIDS II to water use. Ineffective.

9. Swimmer Defense

a. Successful

37	MK40 Depth Charges	Swimmer deterrent weapon. In stock in RVN. Not employed as regularly as concussion grenades.
51	Tethered Anchor Chain Ring	Collar for detection of explosives attached to chain. In use at various harbors.
34-68	DENIAL	Electric field bridge swimmer protection system. Applicable only to certain types of bridges and to fresh water.
51-68	MK40 Mod 1 Depth Charge	Swimmer deterrent weapon. In stock in RVN. Not employed as regularly as concussion grenades.
83-68	Brewster Barrier	Pulsed Light for swimmer deterrence. Further CONUS testing required. Evaluation still in progress.
90-68	Hydromunition Tests	Effectiveness of anti-swimmer weapons. Standard ball ammo ineffective against submerged swimmer.
95-68	Salmon Counter	Modified commercial fish counter as swimmer detector. Tested in CONUS. Feasibility of concept established. Any further development to be at SYSCOM level.

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98-68	Swimmer Sweeper	Towed grapnel array. Plans distributed in-country. Mainly a psychological deterrent.
104-68	Waterdog	Dogs to detect swimmers. Dogs and handlers remain in-country. Concept should be pursued further in CONUS.
5-69	Sweeper Effectiveness Test	Test of effectiveness against swimmers. Sweeper will hold, injure, or kill any swimmer caught in sweep.
11-69	Swimmer Flare	Hand employed illumination to enhance swimmer detection. 50 in-country for evaluation.
31-69	Water Edgelighting System (WELS)	Over-the-side light to aid in swimmer detection. No procurement. Superior to methods in use, but housings deteriorated. See Project 17-70.
35-69	Near Term Swimmer Defense System (NTSDS)	A sonar based system. 2 prototype systems in-country. Further development required to improve maintainability and performance.
42-69	Scare Charge	Use of U.K. scare charge as concussion grenade substitute. Procured in quantity. More effective due to increased charge weight.
52-69*	Swimmer Lights	Underwater lights for full inspections. 2 sets in use in-country. Very effective. Recommended procurement with minor modifications.
75-69	Short Range Underwater Detection Device (SHORUDD)	Swimmer detection aid. Successful evaluation. Change in sentry methods reduced need.
79-69	Anti-Swimmer Weapon	Mini Hedge Hog Launcher. Evaluation in progress at Cam Ranh Bay.
10-70*	Time Interval Encoder	Cassette tape player to provide more random use of concussion grenades. Three units in-country under evaluation.
17-70*	Limpet Lights	Magnetically attached underwater lights for shipboard swimmer defense. Three versions being fabricated in CONUS.

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28-70*	Near Term Swimmer Defense System (NTSDS) No. Two	Evaluation performance and make recommendations for service approval. Report under preparations.
	b. <u>Unsuccessful</u>	
2	Trammel Anti-Swimmer Net	Three layer mesh net for swimmer barrier. Not used. Not effective. Re-evaluate under NRUD-V Project 4-69.
30	Anti-Swimmer Buoy	Buoy with treble fishhooks on lines used as barrier against swimmers. Not used. Short term barrier only.
10-67	Chain Link Barrier	Floating chain fence around water assets. Used around bridges impractical for afloat assets.
15-67	Underwater Hydrophones (Somest)	Detection of SCUBA swimmers. Unacceptable. Led to Project 32-67.
41-67	Swimmer Defense Barrier	Log and concertina wire barrier. Little use due to ineffectiveness.
1-68	AN/SQS-19 Sonar For Swimmer Detection	Unsuccessful because of failure rate.
19-68	Wire Arc Seismic Section Profiler and Sonic Boomer	Acoustic deterrence of swimmers. Not used. Deterrent effect too limited.
36-68	Wire Gun	Anti-swimmer weapon. Not used. Ineffective.
54-68	Swimmer Acoustic Burglar Alarm System (SABAS)	Swimmer detection device for defense of fixed assets. Not employed. Not considered portable and required stable support structure.
65-68	Flechette Loaded Shotgun Shell	Anti-swimmer weapon. No procurement. Ineffective.
75-68	Light Depth Charge	Reduced cost replacement for concussion grenade. Cancelled. Procurement of U.K. Scare Charge was initiated.
94-68	Diverted Swimmer Sweeper	Anti-swimmer sweep device. Cancelled. Insufficient number of boats for employment area.

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101-68	Towed Denial	Towed electrical swimmer deterrent. Cancelled. Limited to fresh water by power source requirement.
3-69	Denial II	Feasibility study of electrical deterrent system to protect floating assets from swimmer attack. Severe limitations.
4-69	Trammel Net	Three layer mesh net as an anti-swimmer barrier. Terminated. Very ineffective.
16-69	MSR II Denial	Fixed electrical anti-swimmer barrier. Cancelled. Not feasible for power and salinity requirements.
64-69	Swimmer Douche	Water jet swimmer barrier. Power and equipment requirements made it impractical.
66-69	Explosive Sweep	Scare charge activation of pressure mines. CONUS tested to determine activation ranges completed.

10. Mine Countermeasures/Defense

a. Successful

39-68	Drifting Mine Defense	Study and threat analysis of drifting contact mines. Countermeasures tested for use when needed.
46-68	Mine Countermeasures Bottom Net	Chain link net for use at LST/LCU ramps. Not used. Satisfactory, but too cumbersome.
81-68	Triple Threat	Analyse HAT/2 magnetic and acoustic mines for possibility of addition of pressure influences. Study completed. No known directly compatible third influence mechanism.
6-69	Surface Sweep	Minesweep to counter drifting contact mines. Surface skim net good for area clearance. Design available if needed.
58-69	MRF Chain Drag	CONUS tests. Revised operating procedures being written for general use.
71-69	Diverted Sweep	Controlled diversion mechanisms for river moored minesweeping use. Effective when properly used. OPTEVFORV evaluation recommended.

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27-70*	Chain Drag Bottom Indicator	Bottom contact indicator for straight chain drag. CONUS work in progress to make device simple and reliable.
b. <u>Unsuccessful</u>		
1	Lima Mark I Mod 0 Mine Locator	No used. Negligible usefulness.
9-67	Mine Defense Laboratory (MDL) Mine Countermeasures Hydrodyne Drone Boat	See Project 24-68
16-67	Underwater High Explosive Device (UHED)	Anti-Boat Mine. Not used. Change in tactics and requirements.
22-67	Mine Countermeasures Bottom Nets	Not used. Impractical due to net size requirement and manpower requirement.
18-68	Mine Wire Detector	Command watermine detonating wire detector. Not used. Low detection percentage.
92-68	Mine Protection for Crew of Motor Convoy	Terminated. USMC developed its own solution separately.
9-69	Canal Ahead Thrown Sweeper (CATS)	Propelled graphnel sweep for use against command mines. Terminated. Timely economic solution not available.
19-69	Minesweeping Douche	Douche Boat used to sweep pressure mines. Cancelled. Inefficient.
73-69	Cable Cutter	Sever cable barriers across small waterways. Cancelled. No practical bow mounted device could be produced economically.

11. Miscellaneous

a. Successful

17-67	Lightweight M-56 Load Carrying System	Backpack developed for SEALs to carry equipment. Being used by SEALs.
26-67	Electro Luminescent Flight Deck Marking System	For use on ATC (H). Current use of equipment not known. Good results on evaluation.

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6-68	Helicopter Landing Approach Glide Slope Indicator	Small box-portable colored light glide slope. Glide slope indicators recommended for shore use, modified indicators for HLS use.
22-68	Helicopter Landing Zone Marker	Air drop, radio controlled flashing light. Light developed. Never used in-country.
35-68	PCF Grimes Light	Rotating beacon for rapid, positive identification. Recommend for all PCF assets.
62-68	USS NEW JERSEY	Improved ballistic computation and navigational capabilities. Not in use. One-of-a-kind item.
88-68*	Defoliation Study	Study for various defoliants. Installed on U.S. Douche Boat. Not yet tested in-country.
10-69	IR Camera	For EOD use. 6 units in-country. Production based on demand.
23-69	Underwater Location of Downed Helo	Battery-powered sonar sound signal operated by water after crash. Not used. Not requested by field units.
26-69	Chain Cutter	.22 cal cartridge powered cutter. Used by special units. Production based on demand.
29-69	LSSC Lifting Pads	Determine cause of and fix for lifting pad failure. Wrong slings used and pad alignment problems. Procedures specified.
48-69	Bunker Denial	Chemical bunker contamination. Several contaminants recommended.
50-69*	Sand Stabilization	Chemical spray to reduce blowing sand at helo pads. In CONUS testing.
59-69	Marine Borers	Counter damage caused by marine borers. Wood treatment procedures recommended for VNN.
61-69*	Horticultural Soil Stabilization	Grass, plants, trees to stop blowing sand at Cain Ranh Bay. Plants dying. Recommend using native plants.
78-69	PGH Seal Opeval	Patrol Craft Hydrofoil. Completed. Craft returned to CONUS.

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80-69*	Sandbag Sealer	Quick tying method for sealing sandbags. Tests in progress at III MAF.
4-70*	Deep Red Swimmer Picture	IR pictures sent to DCPG for anti-swimmer study.
5-70*	Meaty Rocks	Enzymes to harden clays and sands. In CONUS testing.
14-70*	Quiet Aircraft	YO-3A Army has nine modified QT-2 in-country under evaluation. NRDU-V is monitoring.
19-70*	Quick Tie	More efficient method for tying of chicken wire in F-C construction. Proposals being tested in CONUS.
25-70*	Explosive Terrain Clearing	Continuous rod warheads for land clearing at SOLID ANCHOR. Twelve 500 pound airdalers now at SOLID ANCHOR. Hatches have been used - limited success.
26-70*	Explosive Dredge	Canal construction and clearing by explosives. CONUS tests successful. Explosive slurry hose being provided for evaluation.
30-70*	Water Clarifier	Cheap and permanent water system. Design complete. Awaiting material in-country.
31-70*	Water Filter	Cheap and permanent water system for small Vietnamese bases. Design complete. Awaiting materials to arrive in-country.

b. Unsuccessful

7	Lightweight Nylon Rucksacks	III MAF Project
9	Improved M-79 Ammunition Carrier Vest	III MAF Project
21	Tropical Reservative Lubricant for Small Arms	NOL developed spray type. No advantage over present lubricants available.
24	PBR Identification Lights	Became Project 20-68.
29	Aircraft Delivered CS	CS in napalm tanks for bulk delivery. No production.

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35	M-16 Magazine Covers	Plastic waterproof covers. Not waterproof.
46	Small Craft Electrical Deterrent	Electrical deterrent system for YRM-9 and small craft. Cancelled. Impractical.
50	Fluorescent Chart	Special UV sensitive lines on map. Not used. UV light no more covert than flashlight.
3-68	Alans Beacon	A-6B Bombing Beacon used by forward air controllers for off-set bombing. Present use unknown. Other system under development.
10-68	Ku-Band Beacon	A-6A aircraft ordnance delivery aid. Cancelled. Not under VLAP guidelines.
41-68	SEAL Footgear	SEAL found oversized shoes unsat. Coral shoes not requested again.
52-68	Project Big Ears	Headset with mechanical sound amplifier. No operational need. Not used.
56-68	Illicit Traffic Labelling Kit	Chemical kit used to test for copper and zinc on hands. Not now in use.
68-68	Demolition Knife	EOD non-sparking knife/tool. Not used. Commercial knives determined to be better.
70-68	Tiara Target Marking Device	2.75 aircraft rocket for night target marking. No development. 16 month lead time required, too long.
77-68	Low Reflectivity Plastic Bag	Bags for Marines to use fording rivers. No successful bags developed.
93-68	Ultraviolet Light Source	Fluorescent topographic mapping system. Unsuitable for use.
97-68	Marine IDHDS	Intelligence Data Handling and Display System. Not used. CMC halted project at 50% complete.
8-69	LST Unloading Conveyor	Power belt to move pallets. Not developed. Too expensive.
39-69	Nipa Palm Cutter (Nipcu)	Rotary hoghead cutter (for LCM-6). Cancelled. Too cumbersome and expensive.

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NAVAL OPERATIONS

DATA FROM AUTOMATED SOURCES

File/Agency	Description	Type Data Available
NASVA/OJCS J-3 Opns Stat Br, Data Processing Div	Naval surface and air activities on operations GAME WARDEN, MARKET TIME and SEA DRAGON	Location, unit reporting, types and numbers of vessels detected, inspected and boarded, incidents, enemy and friendly losses, aircraft patrols, helicopter operations, minesweeper operations, radar detections, shore battery activity and summary file on river and coastal activities. (Source: OPREP-5)
CONGA/OJCS J-3 Opns Stat Br, Data Processing Div	Naval gunfire support missions in South Vietnam and shore bombardment in North Vietnam	Details of fire mission, enemy losses, and ordnance expended. (Source: OPREP-5)

SOURCE: OJCS J-3

FIGURE H-4

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55-69	81mm Claxon	Psyops noise maker. Batteries failed in SEA. No longer required.
68-69	Foam Generator	CS filled foam to prevent use of canals. Not developed. Too expensive.
76-69	Visual Security of Luminous Wrist Watch Dials	Special crystals on watches. Not used. SEALs use a different method.
77-69	Helo Light	VSS-3 Xenon searchlight. Not developed. Prototype unreliable.
81-69	Searchlight Replacement	60" searchlight replacement. AN/TVS-3 Army unit recommended.
83-69	Psyops Audio Broadcasting	Portable speakers from tapes. Timer controlled. Not used due to change in tactics.

Note: \* Indicates projects still in progress.

Data from Automated Sources on Naval Operations

(U) See Figure H-4.

Other Significant Reference Sources

(U) Other areas providing significant reference sources are the MACV Lessons Learned, MACV Combat Experiences, CORDS Pacification and Development files, and the MACV History Branch Historical Information Management System (HIMS).

MACV Lessons Learned

(U) COMUSMACV has published 82 Lessons Learned. Information on a great number of subjects was gathered first hand by numerous US and other Free World Force units in RVN. They are classified CONFIDENTIAL or lower and are given wide distribution. Previously published MACV Lessons Learned may be obtained from the Defense Documentation Center, ATTN: DDC-TCA, Cameron Station, Alexandria, Va 22314. (U)

(U) Following is a listing of MACV Lessons Learned:

<u>Number</u>	<u>Date</u>	<u>Subject</u>
1	30 Mar 62	Heliborne Operation Cai Ngay, An Xuyen Province
2	30 Mar 62	Airmobile Operation in I Corps

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3	11 Apr 62	Operation JUNGLE JIM
4	11 Apr 62	Ranger Task Force Operation in Vinh Binh Sector
5	11 Apr 62	Multi-Battalion Operation in Northern Tay Ninh Province
6	11 Apr 62	Operations in Phuoc Thanh Sector to Relocate Civilians
7	18 Apr 62	Operation DAN TIEN VIII
8	23 Apr 62	Operation CA CHEP
9	27 Apr 62	Operation in Kien Hoa Sector
10	1 May 62	VC Ambush -Trung Lap, Binh Duong Province
11	5 May 62	Operation TIGER HUNT
12	10 May 62	Operation RAINDROP
13	16 May 62	Operation NGUYEN HUE
14	Undtd	Operation SON CA
15	15 Jun 62	Ambush Techniques
16	19 Jun 62	Review of Lessons Learned 1 - 15
17	25 Jun 62	Techniques Dealing with Airmobile Assaults
18	24 Jul 62	Tips and Combat Experiences
19	31 Jul 62	Operation SUNRISE
20	27 Aug 62	Indiscriminate Use of Firepower
21	28 Aug 62	Ambush Techniques
22	8 Sep 62	Operations of US Army Helicopters
23	5 Oct 62	Operation BINH TAY
24	13 Nov 62	Airmobile Raids Against Superior Forces
25	17 Dec 62	Search Techniques
26	18 Jan 63	M113 Operations

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27	28 Feb 63	Ambushes
28	18 Apr 63	Guidelines for Advisors
29	17 May 63	Ambush in BINH CHANH
30	17 Aug 63	Psywar and Civic Action Operations
31	27 Sep 63	Artillery Organization & Employment in Counter-insurgency
32	19 Oct 63	Eagle Flight Operations
33	29 Oct 63	Utilization of Military Dogs
34	30 Nov 63	Railway Security
35	10 Jan 64	Clear and Hold Operations
36	4 Feb 64	Free and Maneuver
37	10 Feb 64	Vehicle Convoy Organization and Control
38	12 Mar 64	Area Saturation Operation
39	11 Mar 64	Ambush Operations
40	23 Mar 64	Corps Psywar/CA Operations Center
41	28 Jul 64	Operations of Seabee Technical Assistance Teams
42	7 Oct 64	VC Employment of Land Mines
43	22 Dec 64	Combat Tips I
44	23 Jan 65	Elimination of Viet Cong Infrastructure
45	12 Feb 65	Viet Cong Tunnels
46	3 Mar 65	Recent Operations
47	30 Mar 65	River Assault Group Operations
48	7 Apr 65	Combat Tips II
49	13 Apr 65	Operation HOAI AN
50	13 Apr 65	Naval Conduct of Amphibious Operations

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51	24 Apr 65	Operational Employment of Riot Control Munitions
52	22 Nov 65	Operational Employment of the Mity Mite Portable Blower
53	29 Sep 66	Viet Cong Improvised Explosive Mines and Booby Traps
54	27 Jan 66	The Battle of Ky Phu
55	15 Mar 66	The Battle of Annihilation
56	18 Apr 66	Operations Against Tunnel Complexes
57	25 May 66	Pursuit
58	20 Jun 66	Operation HAPPY VALLEY
59	13 Jul 66	Employment of Image Intensification
60	5 Oct 66	Defense Against Mortar/Recoilless Rifle Attacks
61	27 Jan 67	Salient Lessons Learned
62	11 Mar 67	Salient Lessons Learned
63	25 Apr 67	Search and Rescue Operations
64	15 Sep 67	Imitative Communications Deception
65	20 Oct 67	Population and Resources Control
66	10 Nov 67	Countermeasures for 102mm, 122mm and 140mm Rockets
67	4 Apr 68	Defense
68	20 Jul 68	Viet Cong Base Camps and Supply Caches
69	10 Sep 68	Analysis of Enemy Positions at Khe Sanh and Evaluation of the Effectiveness of Weapons Systems Against Enemy Fortifications
70	17 Oct 68	Friendly Casualties from Friendly Fires
71	13 Mar 69	Countermeasures Against Standoff Attacks
72	16 Nov 68	Aerospace Rescue and Recovery in South Vietnam

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73	20 Nov 68	Defeat of VC Infrastructure
74	15 Sep 69	Accidental Herbicide Damage
75	20 Jan 70	Cordon and Search Operations
76	22 Nov 69	Vietnamization
77	20 May 70	Fire Support Coordination
78	17 Feb 70	Action at Long Khot
79	8 Mar 70	Enemy Exploitation of Allied Tactical Communications
80	29 Jun 70	US Combat Forces in Support of Pacification
81	9 Jul 70	RF/PF Outposts
82		Cancelled
83	12 Oct 70	Helicopter Tactics and Techniques for Use with Reconnaissance Teams

## MACV Combat Experiences

(U) COMUSMACV has published seven MACV Combat Experiences. Like the Lessons Learned, they are classified CONFIDENTIAL or lower and are available from the Defense Documentation Center. ( 7 )

(U) Following is a listing of MACV Combat Experiences:

<u>Number</u>	<u>Date</u>	<u>Subject</u>
1-69	6 Jun 69	Defense Against Sapper Attacks; Sniper Training and Employment; Small Unit Operations
2-69	29 Jul 69	Tactical Cover and Deception (C & D) in Counter-insurgency Operations
3-69	7 Sep 69	Task Force Remagen; Experiences with Enemy B-40 and B-41 Rockets; Naval Forces Operations; Bridge Security Against Underwater Sapper Attack.
4-69	3 Nov 69	Bunker Busting/Land Clearing; Sapper Actions of North Vietnam Communists; FAC Operations; KBAR/VAMPIRE Concept; Anti-Rocket Program.

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OTHER

DATA FROM AUTOMATED SOURCES

File/Agency <sup>1</sup>	Description	Type Data Available
HES-70/OJCS J-3 Opns Stat Br, Data Processing Div <sup>3</sup>	Hamlet Evaluation System - 1970	Data on each hamlet and village in South Vietnam con- taining monthly and quarterly responses to the 139 question set, monthly scores of 29 models which measure the status of the security, political and socio-economic development of South Vietnam. (Source: MACV HES-70 Monthly Update File)
AMFESQA (SEER)/ OJCS J-3 Stat Br, Data Processing Div <sup>3</sup>	Quarterly evaluation subfile of the System for Evaluating the Effective- ness of RVNAF Forces. Contains data concerning ARVN and VNMC. <sup>2</sup>	US Advisors quarterly evalu- ations of the effectiveness of units advised in terms of personnel, operational, logistical, and training effec- tiveness. (Source: Quarterly Questionnaire Reports - MACV)
TIRSA/OJCS J-3 Opns Stat Br, Data Processing Div <sup>3</sup>	Terrorist incident reports on an incident by incident basis	Acts of terrorism directed primarily against the civilian population. Incidents include assassinations, abductions, injuries, damage to civilian and government facilities, and general acts of harassment such as taxation and confiscation of commodities. (Source: MACV - TIREA weekly update file)
FORSA/OJCS J-3 Status of Forces Br Data Processing Div	Status and capabilities of both regular and reserve forces of the United States	Identification, location, readiness posture, commit- ments, command relationships, equipment status. (Source: Forces reports)

1. Within DOD OJCS J-3 Data Processing Division is responsible for or capable of providing additional information/assistance.
2. MACV has initiated two sub-systems of SEER similar to AMFESMA /AMFESQA. They are NFES and AFES which contain operational reports and evaluations by US advisors of Naval and Air Force units respectively.
3. These files are closely monitored by OASD(SA) (REPRO).

SOURCE: OJCS J-3

FIGURE H-5

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5-69	5 Jan 70	Viet Cong Attack on Regional Force Outpost; Pacification of Quang Dien District.
6-69	15 Jan 70	"To Build, Not to Destroy..." Air Ambush; Surveillance Task Force.
1-70	1 Apr 70	Tactical Cover and Deception

### Pacification and Development

(U) The pacification and development area is well documented in written reports and in data from automated sources. The CORDS Information Center in MACV Headquarters contains a wealth of material. Much of the data is automated (see Figure H-5).

(U) The Office of the Chief of Military History, Department of the Army, is currently at work on a multi-volume history of the Army in Vietnam. The volume on pacification is now in the research stage. The author is assembling a comprehensive collection of research documents on all aspects of the subject as reported from Washington to MACV to the district level. The project began in 1969 and is expected to be complete in 5 or 6 years.

### Historical Information Management System (HIMS)

(U) In 1970 MACV Data Management Agency developed a program to provide an automated listing of all documents stored in the MACV historical document repository. Called Historical Information Management System (HIMS), it allows quick reference or inquiries into all documents, studies, and correspondence maintained in the files as well as documents which are on microfilm. ( 8 )

(U) The program is still in progress, but the final objective is to automate the catalog of MACV historical documents, allow retrieval of documents by identifiers selected from the catalog, and produce an automated listing of all documents stored in the MACV historical document repository.

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## REFERENCE SOURCES - Annex H

1. News Release (U), 7AF, Not dated, Subj: CHECO.
2. Rpt (U), 7AF, 1 Nov 70, Subj: A Listing of SEADAB Programs.
3. Ibid.
4. Fact Sheet (U), MACSA, 8 Apr 71, Subj: Mission and Functions of ACTIV.
5. Rpt (C), NAVFORV, 2 Nov 70, Subj: Equipment Developed and Tested for Use in Vietnam Gp-4
6. Rpt (C), MACJ3-052, 12 Oct 70, Subj: Vietnam Lessons Learned No 83: Guide for Helicopter Tactics and Techniques for Use with Reconnaissance Team (U), Gp-4.
7. Ibid.
8. Rpt (U), MACMA, 1 Feb 71, Subj: Command Manual for Historical Information Management System (HIMS).

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## CHRONOLOGY

### January

1 -- FWMAF strength is 1,512,964; US - 474,819; RVN - 969,256; ROK - 48,860; THAI - 11,568; Australia - 7,622; New Zealand - 552; PHIL - 189; China - 29; Spain - 10.

-- The following major US/FWMAF operations continue into 1970:

I CTZ - GENEVA PARK, FREDERICK HILL, IRON MOUNTAIN, RANDOLPH GLEN, NANTUCKET BEACH, FULTON SQUARE, LIEN KET, LAMSON;

II CTZ - WASHINGTON GREEN, GREENE BEAR, PUTNAM WILDCAT, DAN PHU, DAN THANG;

III CTZ - TOAN THANG;

IV CTZ - QUYET THANG, SEA LORDS.

-- Members of the 5th ARVN Regt find eight bodies, apparently civilians who had been killed approximately one week earlier. All victims had hands tied behind their backs and most had fractured skulls.

-- Two hours after the New Year truce ends an element of the 1st Bde, 25th Inf Div engages 50 enemy 10 km northwest of Go Dau Ha, Tay Ninh Province (En: 16 KIA; Frd: None).

2 -- Civilian woodcutters accidentally trip enemy claymore mine 3 km southwest of Hoi An, Quang Nam Province. Seven civilians are killed and 21 injured.

-- An element of the 1st Mar Div observes 25 enemy with weapons moving west 13 km southwest of An Hoa, Quang Nam Province. Artillery is fired in reaction (En: 20 KIA; Frd: None).

-- US infantry company commander is relieved of his command after enemy sappers slipped through his unit's night defensive positions killing eight and wounding five.

3 -- Two km northeast of Tieu Can, Vinh Binh Province elements of the 4th Bn, 16th ARVN Regt engage unknown size enemy force in six-hour battle (En: 29 KIA, 4 IW, 3 CSW; Frd: 1 KIA, 19 WIA).

-- An element of the 23d (Americal) Div, while in night defensive positions, receives mixed mortar and small arms fire. Fire is returned with organic weapons supported by artillery and helicopter gunships (En: 29 KIA, 9 IW, 1 CSW; Frd: 7 KIA, 12 WIA).

-- AFVN newscaster charges command censorship on evening news telecast. The matter is taken under investigation by the MACIG.

-- General Creighton W. Abrams is released from 3d Field Hospital.

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- 4 -- A VC mortar attack on a refugee camp near An Hoa, Quang Nam Province kills 12 civilians and wounds 72 others.
- ✓ -- Operation WAYNE BREAKER terminates. The operation was initiated 18 Oct 69 and resulted in (En: 154 KIA, 7 Det, 9 IW, 2 CSW; Frd: 1 KIA, 9 WIA, 14 aircraft Dest).
- 5 -- Radio broadcast by the NFLSVN announces that Communist forces will observe a four-day cease-fire during the TET Lunar New Year holiday.
- ✓ -- Operation KRAMER WHITE terminates. The operation began 16 Oct 69; final results (En: 52 KIA, 4 Det, 5 IW, 2 CSW; Frd: 2 KIA, 15 WIA).
- Elements of the 16th ARVN Regt engage enemy force 7 km northwest of Cau Ke, Vinh Binh Province. Three-hour contact results in (En: 22 KIA, 1 Det, 1 IW, 1 CSW; Frd: 17 WIA).
- 6 -- An element of the 7th Regt, 1st Mar Div in night defensive positions, 10 miles southeast of An Hoa, Quang Nam Province receives more than 200 rounds of 82mm mortar and a ground attack by unknown number of enemy. The Marines return fire with organic weapons and supporting artillery. Sappers penetrate the perimeter and are repulsed (En: 39 KIA; Frd: 13 KIA, 63 WIA).
- An enemy force of unknown size is engaged by elements of the 1st Bde, 1st Cav Div (Ambl) 32 km northeast of Tay Ninh City with support from helicopter gunships and the 3d and 35th TFW (En: 87 KIA, 29 IW, 7 CSW; Frd: 1 KIA, 6 WIA).
- 7 -- Troops of the 196th Bde, 23d Inf (Americal) Div engage enemy 20 km northwest of Tam Ky, Quang Tin Province, in six-hour battle. Organic weapons including tank guns and heavy machine guns of APCs are used (En: 39 KIA, 16 IW, 7 CSW; Frd: 5 KIA, 16 WIA).
- In night defensive positions 10 km southwest of Dinh Quan, Long Khanh Province, the 3d Bn, 8th ARVN Regt receives 82mm mortar and small arms attack. Fire is returned with organic weapons supported by ARVN artillery and tactical air (En: 32 KIA, 4 IW, 1 CSW; Frd: None).
- 8 -- Two companies and a reconnaissance platoon of the 25th Inf Div and one armored cavalry squadron receive small arms and RPG fire followed by CS gas from unknown size enemy. Helicopter gunship, TACAIR, and artillery is called to support (En: 62 KIA, 2 IW, 10 pounds documents, 5 pounds medical supplies; Frd: 2 KIA, 6 WIA, 2 helicopters damaged).
- In Vinh Binh Province, 39 km south of Tra Vinh the 15th ARVN Regt engages an enemy force (En: 20 KIA, 22 Det; Frd: 24 WIA).
- USMACV begins its ninth year of operations.
- 9 -- Troops of the 10th Cav Regt discover 10 tons of rice in huts 27 km southwest of Pleiku. The rice is evacuated to Thanh An District headquarters.
- A company of the 1st Bde, 25th Inf Div engages unknown number of enemy 11 km northeast of Tay Ninh City. Artillery, TACAIR, and light helicopter teams support (En: 47 KIA; Frd: 4 WIA).

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- Three RF companies engage enemy in bunkers 16 km southeast of Ben Keo, Tay Ninh Province. Support is provided by gunships, TACAIR, and artillery support and three hours later two companies of the 1st Bde, 25th Inf Div reinforce (En: 33 KIA; Frd: 2 KIA, 3 WIA, 2 APC damaged).
- Elements of the 42d and 43d Rgr Bn and 9th ARVN Div enter booby trapped area in pursuit of enemy forces (En: 9 KIA, 5 Det; Frd: 1 KIA, 32 WIA - 25 by booby trap).
- 10 -- Enemy force attacks elements of the 1st Cav Div (Ambi) and Katum MSF and is repulsed by organic weapons (En: 20 KIA, 1 CSW; Frd: 4 WIA, 1 MIA).
- The Dak Pek CSF engages an estimated enemy company 2 km southwest of Dak Pek, Kontum Province. Gunships and artillery support (En: 25 KIA, 4 IW; Frd: 1 KIA, 9 WIA).
- Troops of the 1st Cav Div (Ambi) and one C1DG company with artillery and gunship support attack enemy in bunkers in 15 minute contact (En: 41 KIA, 1 IW, 1 CSW; Frd: 4 WIA, 1 MIA).
- An element of the 1st Bde, 25th Inf Div on sweep 15 km southeast of Ben Keo, Tay Ninh Province finds (En: 50 KBA, 3 IW, 2 CSW, 45 rounds B-40, 40 CHICOM hand grenades, 900 rounds small arms; Frd: None).
- 12 -- COMUSMACV announces the principal units to be redeployed as part of Phase III redeployment would be the 1st Inf Div, USMC 20th RLT, the 3d Bde, 4th Inf Div, and three Task Forces from the 12th TFW.
- An unknown size enemy force abducts 20 PSDF members 3 km east of Vung Leim, Vinh Long Province (En: None; Frd: 20 KIA, 27 IW, 1 radio lost).
- Elements of the 23d Inf (Americal) Div receive heavy small arms and RPG fire. Supported by artillery and gunships, the attack is repulsed (En: 31 KIA, 4 IW, 2 CSW; Frd: 2 WIA).
- Operation CPU LONG which commenced 7 Jan terminates. Final results are: (En: 172 KIA, 40 Det, 20 IW, 6 CSW; Frd: 25 KIA, 249 WIA).
- 13 -- An element of the 1st ARVN Regt on a sweep of previous contact finds bodies of 26 enemy killed by small arms fire (En: 2 KIA; Frd: None).
- Members of the 32d ARVN Rgr Bn engage unknown size enemy force 40 km northwest of Ca Mau, An Xuyen Province. After contact, 31 civilian refugees requested resettlement in government controlled area. Result (En: 7 KIA, 5 Det, 1 IW; Frd: 1 KIA, 5 WIA).
- Operation TOAN THANG 500, initiated 7 Nov 69, terminates (En: 85 KIA, 2 Det, 29 IW, 8 CSW; Frd: 6 KIA, 61 WIA).
- 15 -- An element of the 5th ARVN Abn Regt discovers 5 ton cache 19 km southeast of Katum, Tay Ninh Province. Cache contains 2,200 pounds of rice, 2,000 meters of communication wire, and 200 five-man sleeping tents.

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16 -- BG Charles J. Girard, CG, CMAAC dies of heart attack.

✓ 18 -- Operation FULTON SQUARE terminates. The combat operation had commenced 22 Oct 69, resulting in: (En: 384 KIA, 80 Det, 86 IW, 30 CSW; Frd: 29 KIA, 179 WIA).

✓ -- Operation PUTNAM WILDCAT, initiated 31 Oct 69, is terminated. Cumulative results: (En: 97 KIA, 20 Det, 3 Hoi Chanh, 38 IW, 2 CSW; Frd: 13 KIA, 39 WIA).

19 -- Enemy terrorist throws hand grenade into group of civilian children and US Marines in elementary school in Than Quit hamlet, Quang Nam Province (Frd: 6 WIA, 4 civilian killed, 11 civilian wounded).

-- An element of the 1st Inf Div locates a cache of ammunition 14 km east of Lai Khe, Binh Duong Province. Captured materiel is: 52,100 rounds small arms, 182 rounds RPG, 14 IW, and 75 pounds TNT.

-- In Gia Dinh Province the enemy detonates claymore mines on ARVN company traveling to training area at the Thu Duc Inf School (Frd: 20 KIA, 43 WIA, 2 civilian injured).

20 -- Troops of the 4th ARVN Regt on a search-and-clear mission locate a 15 ton rice cache 22 km northwest of Duc Pho, Quang Ngai Province.

-- An observation post of the 23d (Americal) Div calls artillery support against an unknown size enemy force in the open 15 km west of Quang Ngai City (En: 19 KIA; Frd: None).

-- Two companies of the 8th ARVN Abn Bn engage unknown number of enemy 13 km northwest of Duc Phong, Phuoc Long Province. Small arms fire is exchanged and friendly force is supported by artillery (En: 35 KIA, 7 IW, 1 CSW; Frd: 6 KIA, 16 WIA).

-- In response to an attack-by-fire on FSB Ruth near Bu Dop, Phuoc Long Province, elements of the 11th Armd Cav Regt return fire with organic weapons and receive artillery support (En: 27 KIA; Frd: None).

-- USC protests the execution of two US prisoners of war and asks the IRC to investigate the incident.

-- The IG of USMACV announces that AFVN had not violated DOE policies despite charges made 3 Jan that it had censored news.

21 -- Five troops of the 11th Armd Cav Regt engage enemy 13 km northeast of Loc Ninh, Binh Dinh Province in Operation TOAN THANG IV. US artillery and TACAIR support (En: 35 KIA, 7 IW, 6 CSW, 31 rounds mixed mortar and rocket; Frd: 1 KIA, 9 WIA, 2 M-551 and 2 ACAV Dest).

22 -- An estimated two battalions of VC attack a rifle company and headquarters element of the 1st VNMC Bn 23 miles southwest of Rach Gia. Support is received from USN Black Ponies, US and VNAF TACAIR, and elements of the 2d VNMC Bn (En: 109 KIA, 4 Det, 32 IW, 5 CSW, 102 mines and booby traps; Frd: 28 KIA, 60 WIA).

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- [REDACTED]
- 23 -- The 2d VNMC Bn engages enemy 44 km southwest of Rach Gia, Kien Giang Province in four-hour contact (En: 19 KIA, 4 IW, 3 CSW; Frd: 4 WIA).
- 24 -- Sales of Life Magazine 19 Jan issue are banned by the GVN from sale in RVN because the articles on My Lai are "violent and helpful to enemy propaganda."
- 25 -- The name of CORDS is changed from Civil Operations and Revolutionary Development to Civil Operations and Rural Development. There is no change in organization or mission.
- Members of the 39th ARVN Rgr Bn engage an unknown size enemy force 6 km south of Hoi An, Quang Nam Province (En: 49 KIA, 2 Det, 1 IW, 50 rounds 82mm mortar and 350 grenades; Frd: 8 WIA).
- 26 -- A cache is discovered 15 km northeast of Go Dau Ha, Tay Ninh Province by members of the 2d Bde, 25th Inf Div. The 8,100 pound cache consists of: 250,000 rounds mixed small arms ammunition, 20 rounds 122mm rockets, 43 rounds 107mm rockets, 52 CKC rifles, 5 DARs, 40 CHICOM hand grenades, and 4 cases of TNT.
- Elements of the 14th Regt, 9th ARVN Div enter booby trapped area and engage the enemy (En: 34 KIA, 7 IW, 2 CSW; Frd: 4 KIA, 40 WIA - 36 by booby traps).
- Lt Everett Alvarez, Jr. spends his 2,000th day as a prisoner of NVN, marking the longest time any American has ever spent in captivity as a prisoner of war.
- 27 -- Operation VU NINH 9 initiated 7 Jan in Quang Nam Province is terminated (En: 181 KIA, 13 Det, 30 IW, 1 CSW; Frd: 19 KIA, 86 WIA).
- 28 -- Troops of the 29th ROK Regt engage unknown size enemy force 24 km north of Hinh Hoal, Khanh Hoa Province returning fire with organic weapons (En: 25 KIA, 5 IW, 4 CSW; Frd: None).
- The 3d Bn, 16th ARVN Regt with OV-10 support, engages enemy 14 km southwest of Vi Thanh, Chuong Thien Province (En: 26 KIA, 8 KBA, 2 Det, 7 IW; Frd: 3 KIA, 11 WIA).
- An F-105 fighter-bomber is shot down over NVN by ground fire as it returned from an attack on an unarmed photo reconnaissance aircraft. Less than two hours later a USAF search and rescue helicopter was shot down by an air-to-air missile while attempting to locate the missing pilots of the F-105. Eight US personnel are listed missing.
- 29 -- VNN RAID 72 and an embarked MSF company discover cache containing 82 rifles, 6 sub-machine guns, 2 heavy machine guns, and one 60mm mortar. Hoi Chanh leads the unit to the site 6 km northeast of Kien Hung, Chuong Thien Province.
- 30 -- Terrorists detonate bomb in rest room of theater next to Rex BOQ wounding three VN civilians. There were no casualties in the Rex and only minor damage.
- Pentagon announces a total of nine US aircraft have been lost over NVN since the 1 Nov 69 bombing halt. Five were unarmed reconnaissance aircraft, three were jet fighter escorts, and one was a helicopter.



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- ✓ -- Operation GREENE BEAR which commenced 16 Oct 69, terminates. Cumulative results are: (En: 154 KIA, 45 Det, 64 IW, 24 CSW; Frd: 28 KIA, 85 WIA).
- ✓ -- Operation WAYNE THRUST terminates. The operation which began 4 January results in: (En: 52 KIA, 54 Det, 34 IW, 24 CSW; Frd: 11 KIA, 22 WIA).
- 31 -- An element of the 7th Mar Regt on a search and clear operation observes 40 enemy and directs artillery on the position (En: 35 KIA (artillery); Frd: None).
- US military strength in RVN is 472,546.

#### February

- 1 -- Enemy force abducts 40 VN civilian woodcutters 13 km west of Phan Thiet, Binh Thuan Province. One civilian escapes and flees to the 175th RF Co compound (En: None; Frd: 39 VN civilian missing).
- 2 -- USAF B-52 Stratofortress accidentally drops 60,000 pounds of bombs near a small village 164 miles northeast of Bangkok, Thailand. Two women are injured and three buildings damaged.
  - USAF F-4 engages NVN missile site and AA gun position following NVN attack upon two RF-4 unarmed reconnaissance aircraft which were on a routine mission. Both the SAM and AA sites are silenced with no US losses.
- 3 -- US helicopter gunships 6 miles north of Qui Nhon, Binh Dinh Province return fire from a machine gun, subsequently determined to be RF troops test firing. Seven Vietnamese civilians and one RF soldier are killed; 26 civilians and five RF are wounded.
  - Nighthawk aircraft engage estimated 100 enemy troops 2 km east of Tan Uyen, Bien Hoa Province (En: 23 KBA; Frd: None).
  - Supporting Operation TOAN THANG IV, three aircraft engage unknown number of enemy 17 km east of Bu Dop, Phuoc Long Province (En: 33 KBA, Frd: None).
  - Allied spokesman in Saigon says NVN infiltration of arms and supplies into the south over the so-called Ho Chi Minh Trail has increased by about 50 percent over a year ago.
- 4 -- RF troops 24 km north of Tam Ky, Quang Tin Province receive a ground attack. In contact lasting 45 minutes support is received from ARVN artillery and US gunships (En: 35 KIA, 7 IW, 1 CSW, 92 grenades; Frd: 1 WIA).
  - An element of the 7th Cav, 1st Cav Div (Ambt) receives RPG fire and ground probe. Fire is returned with organic weapons, artillery, and air support. Ground sweep engages the enemy in additional five-hour contact (En: 44 KIA, 35 IW, 2 CSW, 114 rounds RPG, 154 mixed mortar, 180 grenades, 29 claymore mines, 140 pounds C-4, 1,513 rounds small arms ammunition; Frd: 4 KIA, 1 WIA).

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- An RF company engages an unknown size enemy force 15 km southeast of Ben Tre, Kien Hoa Province (En: 22 KIA, 11 Det, 16 IW, 3 CSW; Frd: 4 KIA, 3 WIA).
- Operation CHUONG THIEN terminates. The 9th ARVN Div reports the following cumulative results: (En: 212 KIA, 43 Det; Frd: 35 KIA, 243 WIA) ✓
- Members of the 3d Bn, 3d MSF discover cache 19 km southwest of Dong Bo, Long Khanh Province. The materiel is in good condition and consists of: 208 CHICOM claymore mines, 3,009 CHICOM hand grenades, 304 rounds 82mm mortar, 220 pounds C-4, 10,000 rounds AK-47, 5 bicycles, 4 IW, 24 CHICOM radios, 9 field telephones, 15,480 feet communication wire, and documents on US aircraft recognition and radio recognition. Estimated weight is 13,335 pounds.
- RVN President, in a speech to newsmen, indicated that he foresaw no prospects for peace in the country in 1970.
- 5 -- Allies begin 24-hour truce in observance of TET, the Lunar New Year.
  - Mobile Strike Force elements discover series of caches 15 km northeast of Dong Bo, Long Khanh Province. The cache is one of the largest uncovered in the war and consists of: 3,474 82mm mortar rounds, 1,122 75mm RR rounds, 124 B-40 rounds, five boxes of explosives, 138 122mm rounds, 25 240mm rounds, two 120mm rocket launchers, 488 120mm mortar rounds, 251 60mm mortar rounds, 16 RPG-7 rocket launchers, three .51 caliber machine guns, 94 CKC rifles, one M16, two 122mm rocket launchers, 2,316 mixed AK-47 and SKS, 96 CHICOM grenades, 2,420 rds small arms, three 60mm mortar, and one RPG-2 rocket launcher.
  - Operation CUU LONG 21 terminates. The operation began 2 January (En: 410 KIA, 117 Det, 98 IW, 16 CSW; Frd: 53 KIA, 213 WIA) ✓
  - An RF company supported by the 162d AHC engage an unknown size enemy force 15 km northwest of Soc Trang, in Ba Xuyen Province (En: 25 KIA (17 KBA), 5 Det, 4 IW; Frd: 1 WIA).
  - TACAIR supports RF company in contact with enemy 21 km southwest of Vinh Long City (En: 23 KBA; Frd: 2 RF WIA).
  - USN PBR strays across the Cambodian border. The five man crew is detained by RKG.
- 6 -- Cobra gunships react to fire taken by observation helicopter on visual reconnaissance in the vicinity of Moc Hoa, Kien Tuong Province (En: 26 KBA; Frd: 1 WIA).
  - The enemy violates the announced TET truce cease-fire 112 times, of which 73 are considered major.
  - A suspected M-26 fragmentation grenade is detonated in Enlisted Men's Club in Danang resulting in one killed and 62 injured. The incident is apparently not the result of enemy action.

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- The forthcoming reorganization of US Forces in I CTZ is announced in Saigon. Under this organization XXIV Corps will be the senior command with III MAF subordinate to it, the opposite of the present situation. The change is to be made by 9 March.
- 7 -- In Ben Tre, Kien Hoa Province ARVN soldier drops a pack containing M-72 LAW and M-26 grenades from truck. Explosion detonates a claymore mine which fires into nearby group (En: None; Frd: 14 KIA, 19 WIA, 2 VN civilians wounded).
- USN landing craft (LCM) en route to Dong Ha, Quang Tri Province detonates unknown type mine and sinks (En: None; Frd: 2 KIA, 5 WIA).
- NVN rejects the Laotian Government offer to neutralize the strategic Plain of Jars in northern Laos.
- 8 -- Terrorists detonate a plastic charge in Saigon's National Press Club shattering second floor offices but causing no casualties.
- US serviceman is wounded while on courier run to US Embassy. More than four shots are taken at the vehicle but no fire is returned.
- Two MSF companies engage unknown number of enemy 16 km west of Moc Hoa, Kien Tuong Province in a three-hour contact (En: 28 KIA, 2 Det, 11 IW, 2 CSW; Frd: 1 KIA, 2 WIA).
- US State Department announces that 150 US military personnel are listed as missing or captured in Laos.
- 9 -- Soldiers of the 2d MSF Bn find cache 14 km northwest of Dong Bo, Long Khanh Province. In three sites were contained: 1,218 rounds 82mm mortar, three cases 82 mm mortar fuses, 120 bangalore torpedo sections, 1,218 rounds of B-40 rockets and 660 rounds B-41 rockets, and 7,500 rounds small arms ammunition.
- Two MSF and one RF companies engage enemy in day long contact 17 km southwest of Moc Hoa, Kien Tuong Province (En: 26 KIA, 3 Det, 17 IW, 2 CSW; Frd: 7 WIA).
- 10 -- SECDEF and CJCS arrive in Saigon for three-day visit to review progress of Vietnamization.
- The 2d Bn, 3d MSF finds cache containing 1,000 cases of small arms ammunition, estimated weight 40,000 pounds, 18 km northwest of Dong Bo, Long Khanh Province.
- A cache of rice weighing 9.7 tons is found 29 km southwest of Pleiku City by elements of the 4th Inf Div.
- 11 -- While conducting an operation 18 km west of Moc Hoa, Kien Tuong Province, elements of the 43d ARVN Rangers engage an enemy force in a contact lasting seven hours. The rangers are supported by TACAIR and artillery (En: 78 KIA (39 KBA), 2 IW, 1 CSW; Frd: 1 KIA, 4 WIA).
- Soldiers of the 14th ARVN Regt enter a booby trapped area in pursuit of unknown size enemy force in a three-hour contact (En: 8 KIA, 3 Det, 3 IW; Frd: 4 KIA, 46 WIA).

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- 12 -- In a two-hour contact members of the 17th ARVN Regt engage an unknown size enemy force. USMC artillery support is called (En: 21 KIA, 1 Det; Frd: 2 WIA).
- An element of the 5th ARVN Abn Bn engages estimated enemy platoon with organic weapons supported by light helicopter fire team, artillery, and TACAIR (En: 21 KIA, 5 IW, 1 CSW; Frd: None).
  - Another in series of caches is uncovered 17 km northwest of Dong Bo, Long Khanh Province. Estimated weight is 31,500 pounds and contains 22 rounds 120mm mortar, 36 rounds 82mm mortar, and 500 cases small arms ammunition.
  - MSF company engages enemy 20 km northwest of Tri Ton, Chau Doc Province in three-hour contact (En: 22 KIA, 4 IW, 3 CSW; Frd: 1 KIA).
  - Estimated two enemy platoons enter Ban Brieng Village, Darlac Province abducting 100 civilians and confiscating large quantities of foodstuffs (En: None; Frd: 100 civilians missing).
- 13 -- Three companies of the 9th ARVN Div and the 16th ARVN Recon Co supported by troops of the 5th Air Cav Regt engage enemy troops in day long contact 5 km southeast of Tieu Can, Vinh Binh Province (En: 42 KIA, 13 Det, 7 IW; Frd: 29 WIA).
- 14 -- Elements of the 1st Cav Div (Ambl) on ground reconnaissance 15 km southeast of Bo Tuc, Tay Ninh Province receive small arms and RPG fire. Friendlies return fire with organic weapons with artillery and air support and receive mortar fire. The contact lasts four hours (En: 31 KIA; Frd: 8 KIA, 30 WIA, 2 MIA, 1 tank damaged, 1 tank and 1 ACAV Dest).
- ARVN rangers contact enemy force 22 km northwest of Tam Ky, Quang Tin Province (En: 21 KIA, 14 Det, 3 IW; Frd: 4 KIA, 10 WIA).
  - RF soldiers in an operation 16 km southeast of Ben Tre, Kien Hoa Province engage in eight-hour contact with unknown size enemy force (En: 9 KIA, 1 IW, 1 CSW; Frd: 29 KIA, 28 WIA, 14 MIA, 25 IW, 8 M-79 lost).
  - Operation CUU LONG 44/02 initiated 7 February in Kien Tuong Province is terminated (En: 283 KIA, 9 Det, 63 IW, 18 CSW; Frd: 11 KIA, 27 WIA).
  - Operation CUU LONG 44/01 initiated 2 January in Chau Doc Province is terminated (En: 342 KIA, 21 Det, 52 IW, 29 CSW; Frd: 36 KIA, 96 WIA, 1 IW).
- 15 -- In Phuoc Long Province, 16 km northeast of Duc Phong, troops of the 2d Bde, 1st Cav Div (Ambl) discover 10 ton cache of rice.
- 7th ARVN Inf Div relocates headquarters from My Tho to Dong Tam.
  - Two bns of the 17th ARVN Regt on a search and clear mission engage estimated two enemy battalions. Two RF groups support in blocking positions in contact which lasts four hours (En: 112 KIA, 13 Det, 35 IW, 2 CSW; Frd: 4 KIA, 9 WIA).

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- 17 -- In an area 13 km southwest of Dua Map, Phuoc Long Province elements of the 1st Cav Div (Amb) and the 11th Armd Cav Regt receive ground attack and return fire with organic weapons (En: 44 KIA; Frd: 10 KIA, 30 WIA).
- 18 -- Incorrect gunfire coordinates given ARVN artillery unit causes US casualties of 3 killed and 20 wounded at the Bien Hoa air base.
  - Congressman John E. Moss indicates he had not found press censorship by AFVN in Vietnam as the law would define it, but that there existed in the past an inadequate set of guidelines for the activity.
  - Members of the 1st Bde, 4th Inf Div discover possible PW camp 55 km north of An Khe, Binh Dinh Province and capture 24 tons of rice, 1,800 pounds tobacco, one ton salt, 200 chickens, and 15 pigs.
- 19 -- Troops of the 17th ARVN Armd Cav Regt on search-and-clear mission engage unknown number of enemy 25 km northwest of Tam Ky, Quang Tin Province (En: 26 KIA, 6 Det, 1 IW; Frd: None).
  - Artillery forward observer calls artillery on enemy force 17 km west of Quang Ngai City. The 6th Bn, 11th US Arty engages (En: 21 KIA; Frd: None).
  - The 1st Bn, 14th ARVN Regt engages unknown size enemy force 30 km southeast of Tra Vinh, Vinh Binh Province. The 3d Sqdn, 5th Cav gives air support (En: 43 KIA, 1 Det, 6 IW; Frd: 1 KIA, 8 WIA).
  - An element of the 199th Inf Bde discovers weapons cache 22 miles northeast of Bien Hoa City. Contents are: 52 rifles, 7 light machine guns, and 10,000 rounds small arms.
- 20 -- Unknown size enemy force is engaged by artillery of the 23d (Americal) Div 12 km west of Quang Ngai City (En: 29 KIA; Frd: None).
  - Rice cache weighing 20 tons is discovered and destroyed by elements of the 32d ARVN Regt in an area 10 km southwest of Kien Long, Chuong Thien Province.
  - Elements of the 8th ARVN Abn Bn discover bunker 21 km northeast of Song Be, Phuoc Long Province containing 170 bags of rice bearing CHICOM markings (En: 23,760 pounds rice captured).
- 21 -- The 32d ARVN Recon Co with support from US Cobra gunships engages enemy force 10 km southwest of Kien Long, Chuong Thien Province (En: 22 KIA; Frd: 9 WIA).
- 22 -- An element of the 1st ARVN Regt led by detainee raids enemy position believed to be NVN command post. The contact 16 km south of Quang Tri City is supported by flare ships (En: 22 KIA, 7 IW, 3 CSW, 2 60mm mortar, 135 B-40, 50 hand grenades, 10,000 rounds small arms, 12 claymore mines; Frd: None).
  - Two units of the 23d (Americal) Div receive small arms fire 23 km northwest of Tam Ky, Quang Tin Province and return fire with organic weapons supported by artillery and helicopter gunships (En: 23 KIA, 12 IW, 1 CSW; Frd: 2 KIA, 6 WIA).

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- 23 -- Infantrymen from the 2d Bde, 4th Inf Div discover cache 30 km northeast of An Khe, Binh Dinh Province. The 7 ton cache contains: 26 122mm rockets, 116 82mm mortar rounds, 24,000 rounds of small arms, 51 B-40 rounds, 250 pounds of TNT, and 4,000 blocks of C-4.
- Five US Marines are charged with murder following a formal investigation into the deaths of 16 Vietnamese women and children. The deaths are alleged to have occurred 19 February in a hamlet of Song Than, Quang Nam Province.
- Helicopter gunships from the 164th Cbt Avn Gp engage an enemy machine gun location and sampan landing 18 miles northwest of Soc Trang, Ba Xuyen Province (En: 20 KIA, 45 sampans Dst; Frd: None).
- An element of the 6th ARVN Regt finds 15,000 pound rice cache 10 km southwest of Dua Map, Phuoc Long Province. The bags have CHICOM markings on them.
- Operation CUU LONG VINH LONG/41 initiated 16 February in Chuong Thien Province is terminated (En: 157 KIA, 4 Det, 35 IW, 1 CSW; Frd: 5 KIA, 86 WIA).
- 24 -- A 61 ton cache is located by an element of the 2d ARVN Div 30 km northwest of Quang Ngai City containing 55 tons of rice, 2,200 pounds of potatoes, 8,800 pounds of salt, 300 liters of nuoc mam (Vietnamese food seasoning), and 100 vials of penicillin.
- Members of the 2d Bde, 4th Inf Div find arms cache containing 80,000 rounds of small arms and other miscellaneous arms, 30 km northeast of An Khe, Binh Dinh Province.
- LTG Arthur S. Collins, Jr. assumes command of I FFORCEV from LTG Charles A. Corcoran.
- 25 -- Three Vietnamese civilians are killed and 19 wounded when six rounds of 105mm artillery land in Phu Da, Quang Nam Province. The mission fired by element of the 1st Mar Div is in support of the 51st ARVN Inf Regt.
- 26 -- In An Xuyen Province four RF companies and one battalion of the 32d ARVN Inf Regt engage in Operation CUU LONG AN XUYEN/45 (En: 23 KIA, 2 Det, 2 IW; Frd: 2 KIA, 7 WIA).
- 27 -- Elements of the 10th ARVN Regt engage an unknown size enemy for two hours 6 km northwest of Mo Cay, Kien Hoa Province (En: 25 KIA, 26 Det, 4 IW, 1 CSW; Frd: 10 WIA).
- An enemy force is engaged by soldiers of the 16th ARVN Regt 10 km northeast of Cau Ke, Vinh Binh Province. Troops of the 3d Bde, 1st Cav Div (Ambl) support (En: 20 KIA, 5 Det, 13 IW, 9 CSW; Frd: 4 KIA, 34 WIA - all friendly casualties booby trap victims).
- Observer of the 26th Mar Regt, 1st Mar Div sights 45-50 enemy 17 km southwest of Danang, Quang Nam Province which are engaged by artillery (En: 21 KIA; Frd: None).
- 28 -- Cambodia releases five crew members of PBR that had strayed over the border 5 February.
- US military strength in RVN is 466,978.

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March

- ✓ -- Operation CUU LONG/9/03 which commenced 19 January is terminated (En: 309 KIA, 73 Det; Frd: 27 KIA, 392 WIA).
- A PF platoon engages enemy 15 km northwest of Vi Thanh, Chuong Thien Province, while on operation (En: 29 KIA, 10 IW, 2 CSW; Frd: 5 WIA).
- In an area 17 km northwest of Katum, Tay Ninh Province, troops of the 2d Bde, 1st Cav Div (Ambl) discover 126.5 ton rice cache in good condition. Rice is in bags with CHICOM markings.
- 2 -- In seven contacts in area 23 km northeast of An Khe, Binh Dinh Province, elements of the ROK Cav and 26th ROK Inf Regt engage enemy forces (En: 43 KIA, 16 IW, 2 CSW; Frd: 1 KIA, 2 WIA).
- A weapons cache is discovered 14 km northeast of Dau Tien, Binh Duong Province, by an element of the 8th ARVN Regt. The cache contains: 200 B-40, 116 rounds mixed mortar, 21,000 rounds of small arms and weighs approximately 6 tons.
- RADM Albert R. Marschall, USN, relieves RADM John D. Dillion as 3d NAV CONST BDE.
- An MSF Bn supported by elements of the 164th Cbt Avn Gp engages unknown size enemy 30 km southeast of Ha Tien, Kien Giang Province (En: 40 KIA, 2 IW; Frd: None).
- 3 -- In a three and a half-hour contact, one MSF Bn supported by troops of the 5th Cav Regt engages unknown size enemy 30 km southeast of Ha Tien, Kien Giang Province (En: 49 KIA, 7 Det, 1 Hoi Chanh, 42 IW, 6 CSW, 41 rounds B-40; Frd: 3 WIA).
- MSF Co discovers a cache 48 km northwest of Cao Lanh, Kien Phong Province. The 7,000 pounds of materiel contains: 52 B-40 rounds, 62 rounds mixed mortar, 9,600 mortar fuzes, and 26 boxes of TNT.
- 4 -- BG Herbert E. Wolff, USA, assumes command of CMAC replacing COL Byron D. Greene, Acting CG after January death of BG Charles J. Girard, USA.
- In an action 16 km west of Quang Ngai City, a forward observer of the 198th Bde sights 46 enemy moving with packs and weapons and calls artillery strikes from the 14th Arty Gp (En: 22 KIA, Frd: None).
- In a day long engagement 30 km southeast of Ha Tien, Chau Doc Province, one MSF Bn supported by helicopter gunships engages enemy force (En: 41 KIA, 39 IW, 10 CSW; Frd: 1 KIA, 3 WIA).
- In a ground probe by an estimated 50 enemy, against night defensive positions of an element of the 1st Bde, 1st Cav Div (Ambl) 4 km from the Cambodian border in Tay Ninh Province, the enemy is repulsed (En: 37 KIA, 12 IW; Frd: 1 KIA, 3 WIA).
- RADM Albert R. Marschall, USN relieves RADM Henry J. Johnson, USN as Dep Dir, PACNAVFACSEA/OICC.

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- Operation WOL KAI initiated 12 February in Binh Dinh Province is terminated (En: 330 KIA, 194 IW, 28 CSW, 8,269 rounds small arms, 181 mixed mortar rounds; Frd: 13 KIA, 34 WIA).
- 5 -- DOD announces 113 Americans are killed in the week ending 28 February, the highest weekly total since 22 Nov 69.
  - A platoon of the 2d ROKMC Bde in night ambush positions engages an unknown size enemy with organic weapons (En: 21 KIA, 8 IW, 1 CSW; Frd: None).
  - In an operation 15 km northwest of Hu Phuoc Long, Bac Lieu Province, elements of the 32d and 33d ARVN Regts and the 2d VNMC Bn engage enemy forces in seven-hour contact (En: 42 KIA, 31 Det, 32 IW, 1 CSW, 2,000 rounds small arms; Frd: 2 KIA, 6 WIA).
  - One MSF company engages enemy forces 30 km southeast of Ha Tien, Chau Doc Province (En: 20 KIA, 9 IW, 7 CSW; Frd: 1 KIA).
- 6 -- The port of Can Tho, Phong Dinh Province, is turned over to the ARVN by the 1st Logistics Command.
  - An element of the 1st Bde, 1st Cav Div (Ambl) engages an estimated enemy company 14 km northwest of Katum, Tay Ninh Province. Support is received from artillery and the 35th TFW (En: 21 KIA; Frd: 1 KIA, 19 WIA).
  - The 11th Armd Cav Regt engages enemy forces 11 km southeast of Katum, Tay Ninh Province (En: 31 KIA; Frd: 2 WIA).
  - A significant cache is discovered by members of the 2d Bde, 1st Cav Div (Ambl) in a sweep of an area 35 km northeast of Song Be, Phuoc Long Province. The cache weighs 9 tons and contains: 1,100 82mm mortar rounds, 84 rifles, 220 grenades, 43,000 rounds of small arms, 2,400 pounds of TNT, 38 cases of plastique, 170 CHICOM anti-tank grenades, 340 rounds rocket grenades, and 1,000 pick axes.
- 7 -- The total number of helicopters lost to enemy action since 1961 in Vietnam reaches 1,500.
  - An element of the 196th Inf Bde discovers a significant food cache weighing 7.5 tons in an area 32 km north of Ham Tan, Binh Tay Province.
  - Cambodian peasants stage a series of demonstrations in Svay Rieng Province demanding VC troops leave Cambodia. The demonstrators seize 11 weapons from the VC during the course of the protest.
  - Operation CUU LONG 44/04 initiated 2 March in Chau Doc Province is terminated (En: 160 KIA, 6 Det, 90 IW, 27 CSW; Frd: 3 KIA, 8 WIA).
  - Operation CUU LONG 44/03 initiated 15 February in Chau Doc Province is terminated (En: 137 KIA, 33 Det, 29 IW, 27 CSW; Frd: 13 KIA, 51 WIA).
  - Operation TRAN HUNG DAO I, a SEA LORDS operation is turned over to VNN for command.

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- 8 -- After contact with small enemy force 18 km southwest of Phuoc Long, Bac Lieu Province, an RF Co discovers arms cache (En: 5 KIA, 33 IW, 2 CSW, 1 ton small arms ammunition; Frd: None).
- An element of the 1st Bde, 1st Cav Div (Ambl) contacts unknown size enemy force 46 km north of Tay Ninh City. Small arms and automatic weapons fire is exchanged (En: 29 KIA; Frd: 3 KIA, 13 WIA).
- 9 -- CG, XXIV Corps assumes operational control of all US forces in I CTZ and assumes duties of Senior Advisor to CG, I Corps.
- LTG K. B. McCutcheon, USMC replaces LTG Herman Nickerson, Jr. as CG, III MAF.
- ✓ -- Operation CUU LONG 21/03 initiated 24 February in Chuong Thien Province is terminated (En: 166 KIA, 41 Det, 43 IW, 8 CSW; Frd: 48 KIA, 84 WIA).
- 10 -- MG Rexford H. Dettre, Jr., USAF assumes duties of MACJ5, replacing MG Richard F. Shaefer.
- BG Lawrence V. Greene, USA assumes duties of MACJ1, replacing BG Albert H. Smith, Jr.
- The USMC 26th Regimental Landing Team begins embarking aboard ships at Danang for redeployment from RVN.
- An estimated enemy platoon engages an RF Co 40 km northwest of Tuy Hoa, Phu Yen Province (En: Unk; Frd: 17 KIA, 22 WIA, 17 IW).
- DOD directs MACV to begin reporting aircraft losses in Laos as soon as SAR operations have been completed. Casualties immediately related to the losses are to be announced also.
- While operating 6 km southwest of Loc Ninh, Binh Long Province, an element of the 11th Armd Cav Regt contacts an enemy force. Support comes from artillery, helicopter gunships, and TACAIR (En: 54 KIA, 5 Det, 19 IW, 10 CSW; Frd: 4 KIA, 18 WIA).
- VADM Maurice F. Weisner, USN, assumes command of the 7th Fleet replacing VADM William F. Bringle, USN.
- 7 -- Operation HUNG QUANG 1/25 initiated 19 February in Quang Nam Province is terminated (En: 107 KIA, 23 Det, 40 IW; Frd: 9 KIA, 26 WIA).
- 11 -- Cambodian demonstrators ransack North Vietnam and Viet Cong Embassies in Phnom Penh, burn cars, and toss furniture into the streets.
- 12 -- Prince Souvanna Phouma announces NVN must withdraw its troops (estimated at 67,000) before there is a cessation of US bombing in Laos.
- Prince Norodom Sihanouk charges the Viet Cong and Viet Minh (NVN) have not respected their solemn promises to respect Cambodia's neutrality and frontiers.

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- Sappers attack elements of the 2d ARVN Regt in security of Khe Gio bridge, 8 km west of Cam Lo, Quang Tri Province. Attack is repulsed (En: 25 KIA, 10 IW; Frd: 9 KIA, 14 WIA, 1 MIA).
- 13 -- Two battalions of the 21st ARVN Div on an operation 50 km southwest of Rach Gia, Kien Giang Province, engage unknown size enemy with gunship support (En: 45 KIA, 6 Det, 5 IW, 1 CSW; Frd: 4 KIA, 28 WIA).
  - An element of the 16th ARVN Regt is overrun by enemy force while in blocking position 15 km northwest of Kien Long, Chuong Thien Province (En: 5 KIA, 1 Det, 1 CSW; Frd: 21 KIA, 10 WIA, 3 MIA, 10 IW, 5 radios lost).
  - RKG demands that Viet Cong and NVA troops be withdrawn from Cambodian territory by dawn 15 March.
  - Operation CUU LONG 44/05 initiated 6 March in Kien Tuong Province is terminated (En: 75 KIA, 10 IW, 4 CSW; Frd: 5 KIA, 26 WIA).
- 14 -- USS Repose (AH-16), known as the "Angel of the Orient," steams out of Danang Harbor for the US and decommissioning leaving only one hospital ship in Vietnam waters.
  - Elements of the 2d ARVN Regt on search 10 km west of Cam Lo, Quang Tri Province, engage an enemy force in 20 minute contact. ARVN artillery support is received (En: 55 KIA, 12 IW, 152 AP mines, 207 82mm mortar rounds; Frd: 3 KIA, 7 WIA).
  - An element of the 16th ARVN Regt discovers rice cache 10 km southwest of Kien Hung, Chuong Thien Province after brief enemy contact (En: 7 KIA, 9 IW, 42 tons rice Dest; Frd: 14 WIA).
  - The SS Colombia Eagle, a cargo ship carrying munitions to Thailand is commandeered by mutineers and taken to Cambodia.
- 15 -- US Army assumes responsibility for the facilities of the Tan My/Hue logistics base formerly under control of Naval Support Activity Danang.
  - Elements of the 9th ARVN Inf Div discover rice cache while engaged in operation (En: 8 KIA, 1 IW, 24 tons rice destroyed; Frd: 2 KIA, 3 WIA).
  - Elements of the 7th ARVN Cav receive heavy mortar and ground attack while being extracted from LZ, 41 km west of Hue. Gunships suppress enemy fire (En: Unknown; Frd: 40 WIA).
  - Elements of the 1st Bde, 25th Inf Div engage an enemy force 15 km northeast of Tay Ninh City (En: 28 KIA; Frd: 1 KIA, 13 WIA).
- 16 -- One RF company engages an unknown size enemy force 13 km northeast of Phuoc Long, Ba Xuyen Province (En: 17 KIA, 23 Det, 4 IW; Frd: 1 WIA).
  - USN EC-121 Constellation crashes while landing at Danang Airbase. Of 31 crew members, 22 are killed and nine injured.

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- ✓ -- Operation BAEK MA II initiated 1 March in Khanh Hoa and Ninh Thuan Provinces is terminated (En: 163 KIA, 54 Det, 84 IW, 21 CSW; Frd: 3 KIA, 27 WIA).
- 17 -- Reports from Chau Doc Province tell of Cambodian troops attempting to push a VC battalion back across the RVN border and calls for assistance of RVN artillery.
- Secretary of the Army Resor announces the findings of a probe headed by LTG Peers into the alleged My Lai massacre. Fourteen officers charged with various violations of the UCMJ are: MG Samuel W. Koster, former CG, 23d (Americal) Inf Div; BG George H. Young, former assistant division commander, 23d (Americal) Inf Div; COL Oran K. Henderson, former commander 11th Inf Bde, 23d (Americal) Inf Div; COL Robert B. Luper, former commander 6th Bn, 11th Arty; COL Nels A. Parson, former CofS, 23d (Americal) Inf Div; LTC David C. Gavin, former District Senior Advisor of Son Tinh District; LTC William D. Guinn, Jr., former Deputy Province Advisor, Quang Ngai Province; MAJ Charles C. Calhoun, former executive officer and operations officer of Task Force BARKER; MAJ Robert W. Knight, former operations officer, 11th Inf Bde; MAJ Frederic W. Watke, former commander Co B, 123d Avn Bn; CPT Kenneth W. Boatman, former artillery forward observer; CPT Dennis H. Johnson, former 52d Military Intelligence Detachment; CPT Ernest L. Medina, former commander Co C, 1st Bn, 20th Inf, and CPT Thomas K. Willingham, former 1LT in Co B, 4th Bn, 3d Inf.
  - Elements of two battalions of the 14th ARVN Regt and one battalion of the 15th ARVN Regt conducting an operation 15 km southeast of Kien Hung, Chuong Thien Province, engage unknown size enemy force (En: 59 KIA, 1 Det, 5 IW, 1 CSW; Frd: 1 KIA, 16 WIA).
  - In an operation 38 km southwest of Rach Gia, Kien Giang Province, an element of the 33d ARVN Regt engages an unknown size enemy force (En: 40 KIA, 1 Det, 3 IW; Frd: 33 KIA, 19 WIA, 15 MIA, 43 IW, 8 PRC-25 radios lost).
  - MG Lloyd B. Ramsey is injured in the crash of his UH-1 helicopter in the jungle 7 miles west of Chu Lai. The crash is not the result of enemy action.
- 18 -- Radio Phnom Penh announces "From this day the Prince Norodom Sihanouk shall cease his function as Head of State of Cambodia and will be replaced by Cheng Heng, the Chairman of the National Assembly."
- Four RF companies supported by US LHFT engage unknown size enemy in an area 12 km east of Nha Be in the RSSZ (En: 27 KIA, 1 Det, 8 IW; Frd: None).
  - In an area 11 km southeast of Hoi An, Quang Nam Province, the 21st ARVN Rgr Bn receives small arms fire. Fire is returned with organic weapons supported by NGFS, artillery, and helicopter gunships (En: 20 KIA, 8 IW; Frd: 1 KIA, 4 WIA).
- 19 -- Rep L. Mendel Rivers, Chairman of the House Armed Services Committee, announces a subcommittee is investigating the Pentagon's handling of the My Lai case and "at the proper time we will make a report."
- An RF company discovers an ammunition cache during operations 14 km northwest of Go Dau Ha, Tay Ninh Province. Cache contains: 3,500 rounds small arms, 3,000 rounds .51 caliber ammunition, 560 RPG rounds, and 182 rounds of 82mm mortar.

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- Elements of the 10th ARVN Inf Div engage unknown size enemy 9 km southeast of Mo Cay, Kien Hoa Province (En: 33 KIA, 30 Det, 2 IW; Frd: 6 WIA).
- 20 -- The White House acknowledges that there is "very limited" Thai involvement in Laos but describes as grossly exaggerated that US aircraft have flown two battalions to the Laotian war zone.
  - Elements of the 5th ARVN Cav engage enemy forces 9 km northeast of Vo Dat, Binh Tuy Province. LHFT and TACAIR support (En: 28 KIA, 1 Det, 7 IW; Frd: 2 KIA, 3 WIA).
  - In an area 27 km northeast of Ca Mau, An Xuyen Province, elements of the 15th ARVN Regt make contact with unknown size enemy force. Support is received by helicopter gunships (En: 30 KIA, 4 IW, 4 tons of rice captured; Frd: 1 KIA, 6 WIA).
  - A 1st Mar Div artillery element fires support mission 1 km north of An Hoa, Quang Nam Province, when one round detonates prematurely in the vicinity of an element of the 5th Mar Regt killing one and injuring 25 Marines.
- 21 -- MG Albert E. Milloy replaces MG Lloyd B. Ramsey as CG, 23d (Americal) Div after MG Ramsey was injured in a helicopter accident four days earlier.
  - BG John Q. Henion assumes command of the 1st Inf Div replacing MG Albert E. Milloy.
  - An unknown number of enemy enter villages of Plei Khe, and Huing Ya Kem, Pleiku Province, and destroy 35 houses by fire.
  - After an exchange of small arms fire 15 km southwest of Bu Dop, Phuoc Long Province, elements of the 9th ARVN Regt discovers rice cache of 6.5 tons.
  - An eight-ton cache is located by elements of the 9th ARVN Div after contact with an enemy force is terminated. The engagement takes place 10 km west of Kien Long, Chuong Thien Province (En: 20 KIA, 2 Det, 2 IW, 40 rounds 82mm mortar, 2,200 rounds machine gun/BAR ammunition, 50 kilo TNT, two 50 kilo mines; Frd: 9 WIA, 7 VN civilians freed).
- 22 -- Thailand Prime Minister denies that two Thai battalions were sent to Laos but admits "that some volunteers" may have gone there.
  - Terrorists throw hand grenade into the midst of Buddhist worshippers at a temple 7 miles north of Saigon. The blast kills 4 women and children and leaves 20 others wounded.
- 23 -- The Cambodian Government asks the ICC be sent to expel NVA and VC troops peacefully from Cambodian soil.
  - In an area 13 km southwest of Bu Dop, Phuoc Long Province, an element of the 3d Bde, 1st Cav Div (Ambl) finds rice cache weighing 13 tons.
  - A helicopter of the 11th Avn Gp, 1st Cav Div (Ambl) engages approximately 30-35 enemy troops 13 km west of Loc Ninh, Binh Long Province (En: 30 KIA; Frd: None).

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- During an operation 6 km southwest of Phuoc Long, Bac Lieu Province, two ARVN recon companies with helicopter support engage unknown size enemy force (En: 62 KIA, 4 Det, 11 IW; Frd: 6 KIA, 14 WIA).
- Postal workers strike in the US slows Vietnam bound mail. The mail received is down by 50 percent.
- Cambodian Prime Minister Lon Nol states that the US ammunition ship SS Columbia Eagle hijacked and taken into Cambodian waters will not be returned.
- An element of the 3d Bde, 1st Cav Div (Ambl) discovers 16 tons of rice in two caches in the vicinity of Phuoc Binh, Phuoc Long Province.
- 25 -- VC and NVN diplomats are ordered home from their Cambodian embassies in Phnom Penh.
- 26 -- An element of the 1st Bde, 1st Cav Div (Ambl) engages an unknown size enemy force while operating 25 miles northwest of Tay Ninh City. The troops are supported by TACAIR and helicopter gunships (En: 88 KIA; Frd: 2 KIA, 22 WIA).
- ✓ 27 -- Operation QUYET THANG 21A initiated 9 March in Quang Nam Province is terminated (En: 126 KIA, 19 Det, 70 IW, 6 CSW; Frd: 6 KIA, 27 WIA).
- 28 -- The Government of Cambodia announces mobilization of all veteran soldiers to boost the armed forces in face of a reported advance on Phnom Penh by four Viet Cong columns reported to be 3,600 strong.
  - An element of the 2d Bde, 1st Cav Div (Ambl) contacts and engages an unknown size enemy force while operating in an area 24 km northeast of Phuoc Binh, Phuoc Long Province (En: 23 KIA; Frd: 2 KIA, 10 WIA, 3 MIA).
  - An RF Co with support from the 121st Armd Helicopter Co engages unknown size enemy force 5 km north of Kien Binh, Kien Giang Province (En: 25 KIA, 1 IW; Frd: 6 KIA).
- ✓ 29 -- Operation CUU LONG 9/04 initiated 9 February in Chuong Thien Province is terminated (En: 355 KIA, 94 Det, 58 IW, 2 CSW; Frd: 46 KIA, 193 WIA, 3 MIA).
- ✓ 30 -- Operation CUU LONG 44/08 initiated 27 March in Chau Doc Province is terminated (En: 94 KIA, 3 Det, 8 IW, 5 CSW; Frd: 7 KIA, 47 WIA).
  - Cambodian Prime Minister, General Lon Nol, announces that the US ammunition ship SS Columbia Eagle would be returned to the US and that it was free to leave at any time but actual arrangements would be made through a neutral country.
  - An enemy unit identified as an NVA element of the 9th VC Div attacks an FSB 20 miles northwest of Tay Ninh City. The base is occupied by elements of the 1st Bde, 1st Cav Div (Ambl) who return fire and are supported by helicopter gunships, artillery, and AC-119s from the 14th Special Operations Wing (En: 74 KIA, 3 Det, 12 IW, 20 rounds 82mm mortar, 50 CHICOM hand grenades; Frd: 13 KIA, 31 WIA).

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- Chi Lang Training Center, Chau Doc Province, receives rocket and ground attack (En: 38 KIA, 3 Det, 9 IW; Frd: 18 KIA, 85 WIA).
- An enemy force attacks Ba Xoai Special Forces Camp located 8 km south of Tinh Bien, Chau Doc Province (En: 30 KIA, 3 Det, 7 IW, 3 CSW; Frd: None).
- An element of the 2d ARVN Regt observes and engages an enemy platoon in the open 5 km northeast of Rockpile, Quang Tri Province (En: 30 KIA, 11 IW, 3 CSW; Frd: 1 KIA, 1 WIA).
- 30 -- A military court finds 1LT James B. Duffy guilty of involuntary manslaughter and conspiracy to commit involuntary manslaughter in the killing of a Vietnamese prisoner 5 Sep 69.
- The training center at Chi Lang, Chau Doc Province, receives an estimated 500 rounds of mixed mortar and rocket fire during early morning from unknown size enemy force (En: 11 KIA; Frd: 95 WIA, all US generators out, unknown amount of POL destroyed).
- Operation LAMSON 349, initiated 1 January in Thua Thien Province, is terminated (En: ✓ 240 KIA, 10 Det, 127 IW, 13 CSW; Frd: 20 KIA, 79 WIA).
- Operation LAMSON 250 initiated 1 January in Quang Tri Province is terminated (En: 396 ✓ KIA, 20 Det, 104 IW, 40 CSW; Frd: 52 KIA, 70 WIA).
- 31 -- MACV announces a USN F-4 aircraft engaged and shot down an attacking NVN MIG-21 near Thanh Hoa, NVN. The F-4 was protecting an unarmed reconnaissance aircraft on 28 March.
- An element of the 11th Armd Cav Regt in tanks and APCs contacts an undetermined size enemy force 43 km northwest of Tay Ninh City. Friendly force engages enemy with organic weapons supported by artillery and helicopter gunships (En: 30 KIA, 16 Det, 5 IW, 2 CSW; Frd: None).
- Operation RANDOLPH GLEN initiated 7 Dec 69 in Quang Tin and Thua Thien Provinces is terminated (En: 670 KIA, 246 Det, 315 IW, 34 CSW; Frd: 120 KIA, 560 WIA).
- Operation QUYET THANG 63 initiated 2 January in Quang Ngai Province is terminated (En: 257 KIA, 19 Det, 93 IW, 11 CSW; Frd: 23 KIA, 105 WIA).
- Operation QUYET THANG 54 initiated 2 January in Quang Tin Province is terminated (En: 342 KIA, 44 Det, 120 IW, 14 CSW; Frd: 23 KIA, 68 WIA).
- Operation QUYET THANG 45 initiated 8 January in Quang Ngai Province is terminated (En: 427 KIA, 74 Det, 143 IW, 10 CSW; Frd: 33 KIA, 92 WIA).
- US military strength in RVN is 442,088.

April

- 1 -- BG William R. Bond, USA, Commander of the 199th Lt Inf Bde, is killed in action as he was inspecting his troops in contact 70 miles northeast of Saigon.

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- VC/NVA forces attack more than 100 military bases and towns throughout RVN. Siege on Dak Seang CIDG Camp begins.
- An unknown number of sappers place seven charges in the Cam Ranh Bay fuel tank farm located 10 km northeast of Cam Ranh Bay. Three of the charges detonate exploding three 10,000 gallon fuel tanks. EOD personnel disarm the other four charges.
- FSB Ellingsworth, located 34 km northwest of Tay Ninh City, receives an attack consisting of approximately 200 rounds of mixed mortar and rockets. The base occupied by elements of the 1st Bde, 1st Cav Div (Ambl), repulses the attack by an estimated two enemy companies (En: 54 KIA, 28 IW; Frd: 24 KIA, 54 WIA).
- The 44th ARVN Regt in night defensive positions 10 km north of Song Mao, Binh Thuan Province, engages enemy after receiving an attack-by-fire consisting of 100 rounds of 82mm mortar. Support is received from elements of Task Force South (En: 72 KIA, 2 Det, 14 IW, 2 CSW; Frd: 8 KIA, 20 WIA).
- 2 -- MG Donald H. Cowles, USA, assumes duties of MACJ3 replacing MG Edward Bautz, Jr.
- 3 -- Elements of the 1st Bde, 5th Inf Div (Mech) receive heavy small arms and mortar attack 6 km southwest of Con Thien, Quang Tri Province. Units return fire with organic weapons supported by artillery and helicopter gunships (En: 27 KIA, 4 CSW; Frd: 6 KIA, 40 WIA).
- A significant cache weighing 21 tons is located by two companies of the 1st ARVN Regt 35 km southwest of Quang Tri City. The cache consisted of the following: 14 tons of rice, 1 ton salt, 250 gallons of shortening, 600 rounds assorted B-40 and B-41, 500 rounds 82mm mortar, 100 rounds 60mm mortar, and 50 pounds TNT.
- An element of the 11th ARVN Regt engages enemy force 10 km northwest of Cai Be, Dinh Tuong Province (En: 33 KIA, 2 Det, 8 IW, 1 CSW; Frd: 4 KIA, 24 WIA, 3 IW).
- In a four-hour contact, elements of the 12th ARVN Armd Cav Regt engage an unknown size enemy force (En: 23 KIA, 1 IW; Frd: 16 KIA, 35 WIA).
- Operation TU CUONG 28 initiated 31 March in Binh Thuan Province is terminated (En: 143 KIA, 6 Det, 39 IW, 14 CSW; Frd: 8 KIA, 5 WIA).
- 4 -- ADM John S. McCain, Jr., CINCPAC, arrives in Saigon for one-day official visit with COMUSMACV and COMNAVFORV.
- Elements of the 1st Bde, 5th Inf Div (Mech) receive small arms, automatic weapons, mortar and rocket fire from an undetermined size enemy force while operating in an area 9 km southwest of Con Thien, Quang Tri Province. The troops return fire with organic weapons supported by tanks and helicopter gunships (En: 24 KIA; Frd: 2 KIA, 12 WIA).
- Operation PHI PHUNG 1/70 initiated 22 Jan in Quang Nam Province is terminated (En: 168 KIA, 8 Det, 27 IW, 4 CSW; Frd: 10 KIA, 47 WIA).
- Operation CUU LONG 21/04 initiated 6 March in An Xuyen Province is terminated (En: 401 KIA, 49 Det, 125 IW, 22 CSW; Frd: 66 KIA, 266 WIA).

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- 5 -- An element of the 2d Bde, 1st Cav Div (Ambl) discovers an ammunition cache 35 km north-east of Phuoc Binh, Phuoc Long Province. The cache contains: 134,640 rounds small arms, 46 rounds 82mm mortar, 15 boxes TNT and 15 pairs of wire cutters.
- A US Army helicopter gunship engages a suspected enemy location 20 km west of Pleiku City. It is subsequently learned that the aerial machinegun and rocket fire impacted in the vicinity of an element of the ARVN 47th Inf Regt killing 11 and injuring 30 ARVN soldiers.
- 6 -- BG Thomas J. Camp, Jr. USA, assumes duties of ACoS for Military Assistance (MACMA), replacing BG Frank L. Gunn.
- Elements of the 40th and 41st ARVN Regt and the 14th ARVN Air Cav Sqdn engage an estimated two enemy Bns in a series of contacts 3 km southwest of Phu My, Binh Dinh Province (En: 80 KIA, 2 Det, 2 IW, 4 CSW; Frd: 3 KIA, 15 WIA, 1 CSW destroyed).
- 7 -- A special color-bearing detachment of the 1st Inf Div departs RVN to complete redeployment of the division.
- TACAIR strikes are credited with 67 enemy kills in the vicinity of Dak Seang, Kontum Province.
- 8 -- US Date - In ceremonies at San Diego USN LSTs USS Jerome County and USS Bulloch County are turned over to the VNN as a part of the ACTOV program.
- The Laotian Government proposes that negotiations to solve the war there should be preceded by a cease fire to include all US bombing except to the Ho Chi Minh Trail.
- SS Columbia Eagle sails from Cambodian waters after its release. The ship is enroute to Subic Bay, P. I.
- Elements of the 22d and 23d ARVN Rgr Bns receive mixed mortar fire and ground probe 7 km south of Dak Seang, Kontum Province. Support is received from artillery and helicopter gunships (En: Unk; Frd: 4 KIA, 50 WIA).
- FAC confirms 81 enemy killed by TACAIR during the hours from 0600 until 1900 in the vicinity of Dak Seang, Kontum Province.
- 9 -- In a search of the previous day's contact, 45 km west of Hue, Thua Thien Province, two companies of the 1st ARVN Regt find enemy bodies (En: 25 KIA, 10 IW, 1 CSW; Frd: None).
- Enemy overruns RF compound 4 km northeast of Ben Luc, Long An Province (En: Unk; Frd: 14 KIA, 2 WIA, 9 MIA, 24 IW, 1 CSW).
- An element of the 10th ARVN Regt engages an unknown size enemy force for two hours 9 km northwest of Cai Lay, Dinh Tuong Province (En: 20 KIA, 14 Det, 5 IW; Frd: 1 KIA, 14 WIA).
- An enemy attack on the night defensive positions of an element of the 1st Bde, 5th Inf Div (Mech) located 18 km southwest of Quang Tri City is repulsed (En: 33 KIA, 21 IW, 3 CSW; Frd: 12 WIA).

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- 10 -- An enemy force shells the Mai Loc Special Forces Camp and follows with a ground probe. The attack, 6 km southwest of Cam Lo, Quang Tri Province, is beaten back by CIDG forces (En: 19 KIA; Frd: 20 KIA, 40 WIA, 6 MIA, 1 M551 destroyed).
- TACAIR in the vicinity of Dak Seang, Kontum Province, is credited with 44 enemy KBA confirmed by FAC with no friendly casualties.
- On a ground reconnaissance patrol an element of the 2d Bde, 25th Inf Div engages an enemy force 15 km southwest of Thien Ngon, Tay Ninh Province. The soldiers are supported by artillery and TACAIR (En: 26 KIA, 7 IW, 4 CSW; Frd: 2 KIA, 3 WIA, 3 APC destroyed).
- In a contact 26 km southwest of Ca Mau, An Xuyen Province, two companies of RF troops battle enemy forces for two hours (En: 20 KIA, 9 Det, 1 IW; Frd: 3 KIA, 10 WIA).
- Announcement is made that, "Authority has been granted by MACV to the senior advisors to respond to friendly overtures by local Cambodian officials and to meet them at the border. The authority is merely to exchange pleasantries and protocol and not to carry on substantive discussions or to make any plans or commitments."
- USN Operation GAME WARDEN begins its fifth year of activity.
- 11 -- An element of the 25th Inf Div (Mech) operating 29 km northwest of Tay Ninh City engages an enemy force. The troopers are supported with TACAIR, artillery, and helicopter gunships (En: 26 KIA, 7 IW, 4 CSW, 120 rifle grenades; Frd: 2 KIA, 3 WIA).
- 12 -- Siege of Dak Pek CIDG Camp, located 75 miles southwest of Danang, begins.
- GEN Lewis W. Walt, Assistant Commandant USMC arrives for three-day visit.
- 13 -- An enemy force attacks FSB Nancy 15 km southeast of Quang Tri City. An element of the 39th Arty repulses the attack (En: 71 KIA, 9 Det, 11 IW, 6 CSW; Frd: 4 KIA, 39 WIA, 1 tank, 1 APC destroyed).
- Saigon is the target of enemy rockets for the first time in nearly four months as four 122mm rockets land in the downtown section of the city. There are four VN civilians killed and 137 injured.
- 14 -- President Nixon announces the selection of ADM Thomas H. Moorer, USN, as Chairman of the Joint Chiefs of Staff, replacing GEN Earle G. Wheeler, USA. At the same time VADM Elmo R. Zumwalt, USN, is selected to replace ADM Moorer as Chief of Naval Operations.
- GEN Lon Nol announces Cambodia's new government will accept unconditional military aid from any source to save the nation from the Communists.
- An element of the 1st MSF Bn overruns an enemy position in the vicinity of Dak Pek, Kontum Province (En: 29 KIA, 4 IW, 4 CSW; Frd: 26 WIA).
- An element of the 4th ARVN Regt finds 5 tons of rice 7 km south of Duc Pho, Quang Ngai Province.

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- In a four-hour contact 10 km west of Go Dau Ho, Tay Ninh Province two RF companies receive mortar, rocket, automatic weapons and ground attack. Support is received from ARVN artillery and the attack is repulsed (En: 96 KIA, 1 Det, 43 IW, 13 CSW, 1 ton small arms ammo; Frd: 7 KIA, 13 WIA).
- Operation QUYET THANG 2B initiated 1 April in Quang Ngai Province is terminated (En: 216 KIA, 46 Det, 67 IW, 4 CSW; Frd: 4 KIA, 31 WIA).
- 15 -- LTG Michael S. Davison, USA, assumes command of II FORCEV, replacing LTG Julian J. Eweil, USA.
  - Plaza BEQ struck by claymore type charge (Frd: 4 US WIA, 1 civilian killed, 21 injured). In addition, four 122mm rockets strike Saigon injuring five Vietnamese civilians; there were no US casualties.
  - An element of the 31st ARVN Regt engages unknown size enemy force in a 16 hour contact 4 km east of Rach Gia, Kien Giang Province (En: 48 KIA, 1 Det, 10 IW, 2 CSW; Frd: 2 KIA, 10 WIA).
  - Operation CUU LONG 9/5 initiated 5 April is terminated (En: 154 KIA, 17 Det, 38 IW, 6 CSW; Frd: 81 KIA, 379 WIA, 14 IW, 5 radios lost).
  - Operation CUU LONG 7/01 initiated 19 January in Dinh Tuong/Kien Hoa Province is terminated (En: 1077 KIA, 283 Det, 358 IW, 56 CSW; Frd: 197 KIA, 1,219 WIA, 11 MIA, 3 IW).
  - Operation GOLDEN DRAGON II initiated 1 April terminates (En: 67 KIA, 100 Det, 50 IW, 4 CSW; Frd: 5 WIA).
- 16 -- Elements of the 1st Bde, 1st Cav Div (Ambl) receive 100 rounds of mixed mortar and rocket fire followed by a ground probe from enemy forces of unknown size. Attack takes place at FSB Atkinson 23 miles northwest of Tay Ninh City. Fire is returned with organic weapons supported by artillery, helicopters, and TACAIR (En: 55 KIA, 3 Det, 17 IW, 7 CSW, 100 grenades, 5,000 rounds small arms; Frd: 7 KIA, 20 WIA).
  - An unknown individual throws a hand grenade into a group of US and RF personnel watching a movie in an area 8 km south of An Loc, Binh Long Province killing one and injuring 28.
  - Operation CUU LONG KP/71 initiated 13 April in Kien Phong Province is terminated (En: 72 KIA, 19 det, 267 IW, 7 CSW; Frd: 5 KIA, 37 WIA).
- 17 -- GVN announces offer to repatriate all Vietnamese nationals living in Cambodia. The GVN offer comes after reports of mass killings of Vietnamese in Cambodia.
  - An element of the 101st Abn Inf Div (Ambl) find the bodies of 20 enemy killed by artillery 15 April during a sweep 27 km southwest of Hue, Thua Thien Province.
  - An element of the 32d ARVN Regt in a four-hour contact engages an enemy force 26 km southeast of Ca Mau, An Xuyen Province (En: 27 KIA, 3 IW; Frd: None).

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- In an area 33 km southeast of Rach Gia, Kien Giang Province, an RF company supported by helicopter gunships and VNAF TACAIR engage an unknown size enemy force (En: 23 KIA, 4 IW, 1 CSW; Frd: 1 KIA, 10 WIA).
- 18 -- MG Edwin B. Wheeler, USMC, CG, 1st Mar Div suffers a broken leg in the crash of his US-1 helicopter 15 miles southwest of Danang.
  - An unknown size enemy force is engaged by an element of the 42d ARVN Regt 2 km north of Dak Seang, Kontum Province, in three-hour contact (En: 78 KIA; Frd: 1 KIA, 15 WIA).
- 19 -- Testimony is released by the US Senate stating that Project 404 is an anti-Communist operation conducted by the US Embassy in Vientiane for the past four years and resulting in approximately 200 US KIA and an additional 200 missing or captured.
  - An element of the 42d ARVN Regt receives an attack-by-fire in an area 4 km north of Dak Seang, Kontum Province (En: 24 KIA, 4 IW; Frd: 1 KIA, 20 WIA).
- 20 -- President Nixon orders a 150,000-man pullout of US troops from RVN within the next year. This will bring the total reduction of US troops from Vietnam to 265,000 by May 1971.
  - RVN troops, 2,000 strong, accompanied by tanks and armored personnel carriers cross into Cambodia in the third major offensive across the border in the past week.
  - MACV announces that US troop strength as of 15 April was 425,500; 8,500 below the space ceiling of 434,000 effective 15 April.
  - In an area 13 km southwest of Quang Ngai City as part of Operation IRON MOUNTAIN, helicopter gunships of the 11th Bde, 23d Inf (Americal) Div engage an estimated enemy company (En: 24 KIA; Frd: None).
  - USAF FAC reports 36 enemy KBA in TACAIR strikes in the vicinity of the Dak Seang CIDG Camp, Kontum Province. In a second action 1 km north of the camp an enemy force attacks an element of the 42d ARVN Regt (En: 23 KIA, 8 IW, 2 CSW; Frd: 2 KIA, 19 WIA).
- 21 -- While on an operation 42 km southeast of Ca Mau, An Xuyen Province, elements of the 2d VNMC Bn and 32d ARVN Regt engage an unknown enemy force in a three-hour contact (En: 23 KIA, 2 IW; Frd: None).
- 22 -- Hoi Chanh guides an RF platoon to a cache site 21 km west of Can Tho, Phong Dinh Province, containing 84 IW and 1 CSW.
- 23 -- An element of the 3d Bn, 5th Regt USMC discovers cache containing: 59 IW, 12 CSW, 6,000 rounds AK-47, 36 RPG, and 1,600 bottles of cocaine.
  - Operation CUU LONG KP/73 initiated 21 April in Kien Phong Province is terminated (En: 56 KIA, 3 Det, 50 IW, 3 CSW, 8 tons ammunition, and 5,000 grenades captured; Frd: 4 KIA, 15 WIA).

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- Operation CUU LONG 9/06 initiated 20 Apr in Kien Tuong Province is terminated (En: 189 KIA, 16 Det, 961 IW, 46 CSW, 50 tons ammunition, 1,800 pounds of rice; Frd: 24 KIA, 112 WIA, 2 APC damaged).
  - 24 -- An element of the 42 ARVN Regt on a combat assault mission in an area 4 km north of Dak Seang, Kontum Province, finds the bodies of 100 enemy killed by air; there were no friendly losses.
  - 25 -- SECSTATE announces 105,000 VC and NVA troops have invaded Laos and Cambodia and occupy portions in both countries.
    - Announcement is made that Manila R and R program will cease on 1 Jul in accordance with adjusted requirements brought about by the redeployment of US forces from RVN.
    - An RF company in a search 8 km southwest of Hoi An, Quang Nam Province, discovers 20 ton cache of locally grown unpolished rice.
  - 26 -- Operation CUU LONG 21/07 initiated 17 Apr in An Xuyen Province is terminated (En: 105 KIA, 3 Det, 12 IW; Frd: 1 KIA, 4 WIA).
  - 27 -- While conducting operations 31 km southwest of Tam Ky, Quang Tin Province, an element of the 5th ARVN Regt receives 130 civilians who state they no longer want to be controlled by the VC. They are relocated to the Quang Tin refugee center.
    - An element of the 2d Bde, 4th Inf Div discovers 8 ton rice cache 18 km north of An Khe, Binh Dinh Province.
  - 28 -- In an area 18 km northwest of Bu Dang, Phuoc Long Province, an element of the 2d Bde, 1st Cav Div (Ambl) on a ground sweep engages an unknown number of enemy (En: 24 KIA, 3 IW; Frd: 5 WIA).
  - 29 -- GVN announces its forces are conducting operations in the Parrot's Beak area of Cambodia. The RVN troops are receiving US advisor, air, and other support.
    - US Army Saigon Support Command turns over Camp Davies, located 2 km east of Saigon, to the ARVN 3d Area Logistics Command.
    - Elements of the 10th ARVN Regt supported by helicopter gunships engage an unknown size enemy force in an area 14 km northwest of Mo Cay, Kien Hoa Province (En: 31 KIA, 31 Det, 3 IW; Frd: 2 WIA).
    - An element of the 2d Bde, 101st Abn Div (Ambl), located at FSB Granite 30 km southwest of Hue, receives an unknown number of mortar rounds in a late evening attack (En: 18 KIA, 1 Det; Frd: 7 KIA, 41 WIA, 1 MIA).
    - Operation CUU LONG 21/06 initiated 15 Apr in Kien Giang Province is terminated (En: 145 KIA, 8 Det, 33 IW, 2 CSW; Frd: 28 KIA, 76 WIA, 1 MIA).
  - 30 -- Fire is accidentally delivered on friendly troops in the Parrot's Beak area of Cambodia by US gunships responding to ARVN requests for fire resulting in 40 ARVN troops wounded.

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- An element of the 1st ARVN Regt engages an enemy force 35 km southwest of Quang Tri City (En: 14 KIA, 3 IW, 10 tons rice; Frd: 6 KIA, 20 WIA).
- An element of the 45th ARVN Regt is engaged by enemy forces 2 km north of Dak Seang, Kontum Province. TACAIR and artillery support (En: 30 KIA; Frd: 6 KIA, 18 WIA).
- Hiep Duc village, Quang Tin Province, receives indirect fire and ground attack. The village of five hamlets is overrun as PF and PSDF engage the enemy with organic weapons but are forced to withdraw. Elements of the 23d Inf (Americal) Div support (En: 73 KIA, 16 IW, 3 CSW; Frd: 5 KIA, 16 WIA, 19 MIA).
- Operation EICHELBERGER BLACK initiated 20 Mar in Binh Dinh Province is terminated (En: 109 KIA, 17 Det, 89 IW, 4 CSW; Frd: 11 KIA, 65 WIA).
- Five helicopters are lost to enemy ground fire throughout the RVN during the day. All aircraft were destroyed (Frd: 9 KIA, 3 WIA).
- US Military strength in RVN is 427,615.

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- 1 -- Sir Arthur Porritt, Governor General of New Zealand, arrives for nine-day visit to New Zealand units in RVN.
  - President Nixon, in a nationwide broadcast, announces that upon his orders US ground troops have begun an attack against a Communist base complex extending 20 miles into Cambodia.
  - Operation TOAN THANG 43 penetrates 3 to 5 miles into Cambodia and results in 125 enemy KIA.
  - An element of the 5th ARVN Regt engages an unknown size enemy force with organic weapons and artillery support 38 km west of Tam Ky, Quang Tin Province (En: 50 KIA, 2 IW, 1 CSW; Frd: 5 KIA, 9 WIA).
  - Elements of the Capital ROK Inf Div in eight contacts 37 km northwest of Tuy Hoa, Phu Yen Province, engage unknown size enemy forces (En: 34 KIA, 18 IW; Frd: None).
  - In an area 19 km southeast of Cao Lanh, Kien Phong Province, two RF companies engage estimated three enemy battalions in day-long contact. Helicopters, TACAIR, and artillery support (En: 42 KIA, 27 IW, 1 CSW; Frd: 34 KIA, 17 WIA, 14 MIA, 44 IW, 6 Radios lost).
- 2 -- An RF company engages an enemy force 23 km northwest of Ca Mau, An Xuyen Province. (En: 40 KIA; Frd: 5 KIA, 6 WIA, 6 IW).
  - Elements of the 5th ARVN Regt and the 198th Inf Bde set up positions around Hiep Duc village, Quang Tin Province. Enemy forces are still in control of the village. Cumulative results are (En: 199 KIA, 1 Det, 36 IW, 5 CSW; Frd: 32 KIA, 75 WIA, 2 MIA).

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- Elements of the Capitol ROK Inf Div engage an enemy force 36 km northeast of Tuy Hoa, Phu Yen Province (En: 53 KIA, 25 IW, 1,500 rounds of small arms; Frd: None).
- An element of the 1st Cav Div (Ambl) discovers an enemy rice cache weighing in excess of 65 tons in an area 15 km southeast of Mimot, Cambodia.
- 3 -- An element of the 101st Abn Div (Ambl) on a search 27 km southwest of Hue, Thua Thien Province, contacts an enemy force (En: 27 KIA; Frd: 1 KIA, 16 WIA).
  - In an area 12 km southeast of Tri Ton, Chau Doc Province, two elements of the 31st ARVN Regt engage unknown size enemy force (En: 36 KIA, 5 Det, 18 IW, 5 CSW; Frd: 1 KIA, 21 WIA).
  - An element of the 1st Cav Div (Ambl) finds a rice cache weighing 60 tons 25 km northeast of Mimot, Cambodia. Another element of the division locates a large weapons cache 22 km northeast of Mimot containing an estimated 1,200 IW, 30 CSW, and 15 55-gallon drums of gas.
- 4 -- In operations 33 km northwest of Tuy Hoa, Phu Yen Province, elements of the Capitol ROK Inf Div and 9th ROK Div engage enemy forces in 11 contacts (En: 26 KIA, 38 IW, 2 CSW, 453 hand grenades; Frd: 2 WIA).
  - An element of the 3d Bde, 1st Cav Div (Ambl) discovers 12 ton cache of rice 9 km southwest of Bu Gia Map, Phuoc Long Province.
  - During operations 31 km north of Rach Gia, Kien Giang Province, elements of the 31st ARVN Regt engage unknown size enemy force (En: 31 KIA, 13 IW; Frd: 1 KIA, 5 WIA).
  - US forces discover a significant cache 21 km northeast of Mimot, Cambodia which contains: 2,038 IW, 114 CSW, 606,000 rounds of small arms and 12 tons of rice.
- 5 -- President Nixon announces that US troops will penetrate Cambodia no more than 21.7 miles and that all American troops will be withdrawn by 30 June.
  - Operation CUU LONG KP/75 initiated 25 Apr in Kien Phong Province is terminated (En: 94 KIA, 5 Det, 28 IW, 1 CSW; Frd: 42 KIA, 55 WIA, 14 MIA, 44 IW).
  - The VNN assumes command of the SEA LORDS Operation dubbed GIANT SLINGSHOT. The operation is conducted on the Vam Co Tay and Vam Co Dong Rivers in III CTZ.
  - At 1230 today US and ARVN forces launch an operation in the Se San base area in Cambodia, approximately 80 km west of Pleiku City.
  - An element of the 11th Armd Cav Regt engages enemy forces 39 km northeast of Mimot, Cambodia. Support is received from TACAIR and helicopter gunships (En: 88 KIA; Frd: None).
- 6 -- The GOC ordered Communist Chinese diplomats to leave Cambodia within 24 hours after the Peking recognition of the exiled government of Prince Norodom Sihanouk.

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- Due to civil unrest all US servicemen are ordered to remain out of Saigon except on official business and the civilian curfew is moved to 2300 hours until 0530 vice 0100 to 0530.
- AMB W. Ellsworth Bunker departs RVN for consultations in Washington.
- Elements of the 101st Abn Div (Ambl) and the 54th ARVN Regt at FSB Henderson, 15 km southwest of Cam Lo, Quang Tri Province, receive mortar and ground attack (En: 29 KIA, 12 IW; Frd: 48 KIA, 67 WIA, 2 MIA, 3 howitzers damaged).
- An estimated two enemy battalions attack Que Son District Hq in Quang Nam Province. The Hq is defended by RF/PF troops and receives support from an element of the 5th Regt, 1st Mar Div (En: 27 KIA, 4 Det, 12 IW, 2 CSW; Frd: 11 KIA, 31 WIA, 1 MIA).
- Elements of the 3d Bde, 1st Cav Div (Ambl) discover enemy cache 11 km southwest of Snoul, Cambodia containing: 200 IW, 127 CSW, 218,000 rounds small arms, 40,000 rounds of machine gun ammunition, and 1,400 rifle grenades.
- 7 -- The White House announces US troops in Cambodia have captured "a major sophisticated base complex".
  - Elements of the 32d ARVN Regt with artillery support engage an enemy force 20 km southwest of Ca Mau, An Xuyen Province, (En: 39 KIA, 3 IW; Frd: 7 KIA, 5 WIA).
- 8 -- Fighting continues for village of Hiep Duc. Cumulative results are (En: 526 KIA, 69 IW, 12 CSW; Frd: 46 KIA, 210 WIA, 11 MIA).
  - Operation TAT THANG 18 initiated 2 Apr in Kontum Province is terminated (En: 2, 569 KIA, 3 Det, 98 IW, 23 CSW; Frd: 165 KIA, 822 WIA, 89 MIA, 18 IW, 22 CSW).
  - Elements of the 2d Bde, 1st Cav Div (Ambl) discover two caches in an area 27 km north-east of Phuoc Binh, Phuoc Long Province. The area is inside the Cambodian border. The caches contain: 2,070 mixed mortar and rockets, 1,878,000 rounds .51 cal machine gun rounds, 403,200 rounds of 7.62mm ammunition, 2,916 B-40, 350 hand grenades, 147 IW, and 15 CSW).
- 9 -- A PF platoon in defensive positions receives a ground attack from an unknown enemy force. Three additional PF platoons reinforce (En: 25 KIA, 1 Det, 9 IW, 2 CSW; Frd: 5 KIA).
- 10 -- An estimated 100-300 enemy attack Dak Pek CIDG camp in Kontum Province. The enemy employs bangalore torpedoes, B-40, CS gas, small arms, and automatic weapons. CIDG returns fire with organic weapons supported by mortar and TACAIR (En: 29 KIA, 2 IW, 2 CSW; Frd: 20 WIA).
  - Further investigation of the cache discovered on 8 May by elements of the 2d Bde, 1st Cav Div (Ambl) reveals the following additional weapons and munitions: 316 IW, 53 CSW, 2,250,000 .50 caliber machine gun ammunition, 129,000 14.5mm rounds, 1,100 recoilless rifle rounds, 1,040 mortar rounds, and 13 cases of explosives. The total weight of the cache is estimated at 250 tons.

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- Another cache located by an element of the 2d Bde, 1st Cav Div (Ambl) in Cambodia, 37 km northwest of Phuoc Binh, Binh Long Province, contains: 210 IW, 2,900,000 rounds .51 cal machine gun ammunition, 152,000 rounds 20mm ammunition, 1,272 B-40, 3,120 anti-tank rounds, and 648 rounds 75mm recoilless rifle rounds.
- 11 -- A CSF platoon from Dak Pek CIDG camp, Kontum Province, engages an estimated 300 enemy at 15 meters range. The action takes place 2 km northeast of Dak Pek camp (En: 26 KIA; Frd: 1 WIA).
  - Senator S. S. Stratton and party arrive in Saigon for four-day visit in connection with the Hebert Special Subcommittee on Son My.
- 12 -- MG John A. B. Dillard, USA, CG, USA Engr Command, Vietnam is killed in the crash of his UH-1 helicopter after it was hit by enemy ground fire.
  - During public testimony before the Senate Armed Forces Committee, SECDEF states the US will have no ground fighting forces in the Vietnam War after 30 June 1971.
  - An element of the 1st ARVN Div on a search operation 44 km northwest of Hue, Thua Thien Province, engages an estimated enemy platoon (En: 21 KIA, 4 IW, 2 CSW; Frd: 1 KIA, 6 WIA).
  - Elements of two VNMC battalions engage an enemy force 35 km north west of Ca Mau, An Xuyen Province (En: 30 KIA, 2 IW, 1 CSW; Frd: 3 KIA, 19 WIA).
  - An element of the 4th Inf Div discovers an arms cache 77 km northwest of Pleiku City, in side Cambodia, containing: 684 IW, 17 CSW, and several thousand rounds small arms. The cache weighs over 14 tons.
- 13 -- An element of the 2d Bde, 1st Cav Div (Ambl) located at FSB Brown inside Cambodia receives a mortar and ground attack (En: 50 KIA, 34 IW, 4 CSW; Frd: 4 WIA).
  - An element of the 1st Bde, 1st Cav Div (Ambl) discovers caches containing 53 tons of rice in an area 9 km southeast of Mimot, Cambodia.
- 14 -- Robert L. Kuntzig, Administrator, General Services Administration, arrives in Saigon for two-day visit to review GSA logistics support effectiveness.
  - RADM Herbert S. Matthews, Jr., USN, assumes duties as DEPCOMNAVFORV replacing RADM Henry Suerstedt, Jr., USN.
  - Operation DAI BANG 2/69 initiated 30 Nov 69 in Tay Ninh Province is terminated (En: 749 KIA, 10 Det, 355 IW, 46 CSW; Frd: 221 KIA, 825 WIA).
  - An element of the 2d Bde, 25th Inf Div discovers a 170 ton rice cache 19 km northwest of Mimot, Cambodia.
  - Helicopter crewmen from the 12th Cbt Avn Gp detect a large cache site 2 km inside the Cambodian border, 29 km northwest of Tay Ninh City. An infantry element inserted in the area discovers 125 tons of rice.

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- 15 -- VADM Jerome H. King, Jr., USN, relieves ADM Elmo R. Zumwalt, USN, as COMNAVFORV.
- 17 -- SECDEF announces US advisors have entered Laos briefly with RVN troops but US troops are prohibited from large scale operations in Laos.
- A foreign ministers conference of 11 Asian and Pacific nations ends a two-day conference on Cambodia calling for withdrawal of all foreign military forces.
  - An estimated enemy battalion attacks and overrun PF outpost 26 km east of Ben Tre, Kien Hoa Province (En: Unk; Frd: 2 KIA, 14 WIA, 27 MIA, 106 IW, 1 CSW).
  - All elements of the 4th Inf Div (Mech) Task Force which had been operating in the Se San River area of Cambodia are now relocated in RVN.
  - An MSF battalion receives heavy ground fire and mortars 4 km north of Dak Seang, Kontum Province. Fire is returned with organic weapons and supported by artillery (En: 33 KIA; Frd: None).
- 18 -- Allied forces in Vietnam observe 24-hour truce in honor of the birthday of Buddha beginning 1200 18 May.
- An estimated enemy company attacks an element of the 2d ARVN Regt in night defensive positions 3 km southwest of Gio Linh, Quang Tri Province. Support is received from artillery and gunships (En: 28 KIA; Frd: 3 KIA, 25 WIA).
  - An element of the 6th ARVN Regt receives 200 rounds mixed mortar and returns counter-battery fire with TACAIR support in an area 40 km west of Tam Ky, Quang Tin Province (En: 40 KIA, 5 IW, 1 CSW; Frd: None).
  - Operation DOK SURI 70-1 initiated 22 Apr in Phu Yen Province is terminated (En: 545 KIA, 12 Det, 10 IW, 40 CSW; Frd: 18 KIA, 93 WIA).
  - An element of the 11th Bde, 2d (Americal) Div discovers nine ton cache of rice while on operations 7 km southeast of Duc Pho, Quang Ngai Province.
- 19 -- SECDEF announces promotion of LTG Lucius D. Clay, Jr., USAF to GEN. GEN Clay will replace GEN George S. Brown, USAF as Cdr, 7AF and DEPCOMUSMACV for Air Operations.
- 20 -- CAPT Edwin C. Paul, USN, assumes duties as Acting Director, Construction Directorate, replacing MG Elmer P. Yates, USA.
- 21 -- Ambassador W. Ellsworth Bunker returns to Saigon from the US after consultations with government officials.
- An element of the 2d ARVN Regt on a search operation engages an estimated enemy company 12 km west of Cam Lo, Quang Tri Province (En: 30 KIA, 1 IW, 1 CSW; Frd: 4 WIA).

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- 22 -- The first AC-130 gunship to be shot down in Vietnam War is lost over southern Laos resulting in 6 KIA, 1 WIA, and 4 MIA.
- 23 -- An element of the 54th ARVN Regt in night defensive positions 21 km east of Khe Sanh, Quang Tri Province, receives mortar attack followed by a ground attack. ARVN troops return fire supported by ARVN artillery and TACAIR and follow by a sweep of the area (En: 52 KIA, 20 IW, 3 CSW; Frd: 12 KIA, 19 WIA).
- 24 -- For the second time in as many days an enemy force attacks an element of the 54th ARVN Regt 21 km east of Khe Sanh, Quang Tri Province, and again are repulsed (En: 45 KIA, 15 IW, 2 CSW; Frd: 4 KIA, 16 WIA).
- 25 -- Operation BINH TAY IGD II initiated 15 May in Ratanakiri Province, Cambodia is terminated (En: 89 KIA, 1 Det, 16 IW, 1 CSW, 20,000 rounds small arms, 1,500 rounds 60mm mortars, 500 B-40; Frd: 16 KIA, 85 WIA).
- 25 -- MG John J. Hennessey, USA, assumes command of the 101st Abn Div (Ambl) replacing MG John N. Wright, USA.
- Cambodian Foreign Minister Yem Sambaur says Cambodia will ask the US troops to stay in Cambodia until the end of the war.
  - Diplomats accredited to Cambodia from Communist China, NVN, and VC depart Phnom Penh.
  - March in New York City composed of 150,000 persons backing USG policies in SEA.
  - Operation DUONG SON 3/70 initiated 11 Feb in Quang Tin Province is terminated (En: 684 KIA, 205 Det, 177 IW, 15 CSW; Frd: 80 KIA, 366 WIA).
- 26 -- State Department announces the US will supply small arms to Cambodia under a \$7.9 million program which will include both Communist-made and US weapons.
- Viet Cong terrorists strike three times in Qui Nhon, Binh Dinh Province, killing one VN civilian and injuring 51 others.
  - A large enemy cache is discovered by elements of the 2d Bde, 1st Cav Div (Ambl) 9 km inside the Cambodian border and 43 km northeast of Phuoc Binh. The 67 ton cache contains: 3 IW, 46 CSW, 110 mixed mortar rounds, 210 57mm recoilless rifle rounds, 480 B-40, 104,550 rounds small arms, and 50,840 CHICOM rifle grenades. Total weight of the cache is estimated at 97 tons.
- 27 -- The Foreign Ministers of RVN and Cambodia announce the two countries will resume diplomatic relations after a seven-year break which resulted over border disputes.
- President Thieu announces that there is no fixed deadline for withdrawal of RVN troops from Cambodia.
  - Announcement from the Pentagon confirms that GEN Abrams' request for a two-month suspension in force reductions in RVN until after 30 June had been granted.

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- Two USAF F-4 aircraft attack antiaircraft positions 60 miles northwest of Dong Hoi, NVN, after an unarmed reconnaissance aircraft was fired upon.
- MG Edwin B. Wheeler, CG 1st Mar Div departs RVN after suffering injuries in helicopter crash 18 Apr. He is succeeded by MG Charles F. Widdecke, USMC.
- An estimated enemy battalion attacks the ARVN FSB O'Reilly, 40 km west of Hue, Thua Thien Province (En: 74 KIA, 2 Det, 24 IW, 11 CSW; Frd: 3 KIA, 14 WIA).
- Operation BINH TAY II initiated 13 May in Ratanakiri Province, Cambodia, is terminated (En: 73 KIA, 6 Det, 476 IW, 136 CSW, 20 tons ammunition, 89 tons rice; Frd: 9 KIA, 40 WIA).
- 28 -- 1Lt Robert G. Lee and CPT Vincent N. Hartmann, formerly attached to the 9th Inf Div in Vietnam, are charged "with the attempted murder of an unspecified number of human beings... by ordering members of their command to fire into buildings used for human habitation" on or about 15 Jun 69.
  - Diplomatic ties between RVN and Thailand are restored after break of nine years.
- 29 -- GEN Abrams departs RVN for consultations with Defense officials and President Nixon.
  - The cumulative total of captured enemy equipment in Cambodia is: 12,042 IW, 2,145 CSW, 5,131 tons rice, 1,115 tons ammunition, 316 vehicles, 2,807 gal gasoline, 1,995 gal oil, and 10 tons of hospital supplies.
  - An unknown size enemy force attacks Dalat, occupying VN Military Academy, palaces and cemetery. All roads into Dalat are interdicted. Reaction force being formed (En: 12 KIA, 4 Det; Frd: 6 KIA).
- 31 -- An element of the 2d Bde, 4th Inf Div discovers a 19 ton rice cache 20 km west of An Khe, Binh Dinh Province.
  - Under cover of darkness in the early morning enemy forces withdraw from Dalat as ARVN, RF, and PF units continue to sweep the city. Elements of the 53d and 44th ARVN Regts conduct search and clear operations around the city. Final casualties are (En: 47 KIA, 4 Det, 32 IW, 5 CSW; Frd: 16 KIA, 25 WIA).
  - US military strength in RVN is 425,523.

#### June

- 1 -- GEN Creighton W. Abrams returns to RVN from US and consultations with President Nixon.
  - The Naval Support Activity Detachment, Chu Lai is turned over to the Army Support Command.
  - BG John Q. Henion, USA, assumes duties as Director, Training Directorate MACV replacing BG Wallace L. Clement, USA.

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- 2 -- At FSB Tun Tavern, 20 km southeast of Khe Sanh, Quang Tri Province, an estimated battalion-size enemy force initiates a coordinated mortar and ground attack against elements of the 54th ARVN Regt (En: 81 KIA, 3 Det, 32 IW, 14 CSW; Frd: 43 KIA, 88 WIA).
  - During a search mission an element of the 11th Bde, 23d Inf (Americal) Div discovers a 10-ton rice cache 10 km southwest of Duc Pho, Quang Ngai Province.
  - While on Operation WAYNE HURDLE, an element of the 1st Bde, 4th Inf Div engages an enemy force 36 km southwest of An Khe, Binh Dinh Province (En: 28 KIA; Frd: None).
  - An RF company contacts an enemy force 13 km northeast of Cao Lanh, Kien Phong Province (En: 23 KIA, 17 IW, 1 CSW; Frd: 1 WIA).
  - The Government of Thailand announces its decision to send large-scale military aid to Cambodia, including volunteers. The troops would be of Cambodian descent.
- 3 -- President Nixon speaks to the nation and announces operations in Cambodia were more successful than anticipated, all US personnel would be out of Cambodia by 30 June, and he would reserve the prerogative of using interdiction air strikes in Cambodian territory.
  - Operation TAT THANG 21 initiated 10 May in Kontum Province is terminated (En: 116 KIA, 15 IW, 5 CSW; Frd: 27 KIA, 193 WIA, 48 IW, 4 CSW).
- 4 -- An element of the 1st Bde, 1st Cav Div (Amb) discovers a 33 ton rice cache 8 km inside the Cambodian border in the Fishhook area.
  - Operation CUU LONG 32/07 initiated 29 May in An Xuyen Province is terminated (En: 64 KIA, 4 IW, 1 CSW; Frd: 5 KIA, 9 WIA).
  - Senator Cannon and party arrive in Saigon for a four-day Presidential fact-finding visit.
- 5 -- Quin Nhon Tank Farm No. 2 receives sapper attack by unknown number of enemy. (En: 2 KIA; Frd: 2 KIA, 10 WIA, 2, 112, 880 gallons JP-4 destroyed).
- 6 -- An element of the 11th ARVN Regt engages an enemy force 9 km northeast of Cai Be, Dinh Tuong Province (En: 22 KIA, 2 IW, 11 B-40; Frd: 2 KIA, 10 WIA).
  - Prince Norodom Sihanouk announces Mao Tse-tung has promised him CHICOM arms and financial backing to attempt to regain his former position of chief of state in Cambodia.
- 7 -- The US Senate Foreign Relations Subcommittee releases a partial transcript of hearing disclosing that the US has contributed more than \$200, 000, 000 to Thailand for troop support in Vietnam.
- 8 -- An undetermined size enemy force is engaged by elements of the 12th ARVN Regt 30 km northeast of Cao Lanh, Kien Phong Province (En: 28 KIA, 2 Det, 3 IW; Frd: 4 WIA).
- 9 -- An element of the 11th Armd Cav Regt uncovers a cache containing 40 tons of salt 23 km northeast of Mimot, Cambodia.

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- Elements of the 2d Bde, 1st Cav Div (Ambl) discover two enemy caches containing over 31 tons of rice in the Fishhook area of Cambodia.
- The Department of the Army dismisses all charges against CPT Thomas K. Willingham in connection with alleged My Lai massacre. The announcement says, "based upon available evidence, no further action should be taken in the prosecution of those charges."
- NVA troops capture Laotian town of Saravane, which had been surrounded for five years. Only air communication has been open during that time.
- 9 -- MG Ernest C. Hardin, Jr., USAF, assumes duties as Vice Commander, 7AF replacing MG Robert J. Dixon, USAF.
- 10 -- An element of the 1st Bde, 1st Cav Div (Ambl) discovers a 21-ton enemy munitions cache in the Fishhook area of Cambodia 14 km southwest of O Rang. Among the munitions were 128,000 rounds of .51 cal ammunition, 4,512 rounds of 14.5mm ammunition, and 1,500 37mm rounds.
  - An element of the 51st ARVN Regt on a search mission 24 km northwest of An Hoa, Quang Nam Province, discovers the bodies of 41 enemy KBA approximately 48 hours earlier.
- 11 -- In the largest terrorist attack in I CTZ since TET 68, an estimated two companies of VC strike Thanh My Hamlet, 7 km southwest of Hoi An, Quang Nam Province (En: 16 KIA, 1 Det, 7 IW; Frd: 4 KIA, 40 WIA, 74 civilian killed, 68 civilian wounded, 216 houses destroyed, 50 houses damaged).
  - Operation CUU LONG/44/9 initiated 2 Apr in Chau Doc Province is terminated (En: 236 KIA, 2 Det, 55 IW, 12 CSW; Frd: 55 KIA, 154 WIA, 2 MIA, 3 IW).
  - Operation HUNG QUANG 1/32B initiated 29 May in Quang Nam Province is terminated (En: 147 KIA, 5 IW, 2 CSW; Frd: 23 KIA, 174 WIA, 2 MIA).
  - US Senate votes 52-47 to deny President Nixon authority to commit US troops to Cambodia after 1 Jul without prior congressional approval.
- 12 -- An element of the 23d Inf Div on a search mission receives heavy small arms fire and mortar attack. The fire is returned with organic weapons supported by TACAIR and artillery. The contact takes place 33 km west of Tam Ky, Quang Tin Province (En: 33 KIA, 5 IW, 1 CSW; Frd: 1 KIA, 15 WIA).
- 15 -- In the Rung Sat Special Zone rocket grenades are fired at three MSTs ships in three separate attacks. In only the first of the three attacks was the ship hit causing minor damage and one civilian crewmen wounded.
- 16 -- An element of the 2d Bde, 1st Cav Div (Ambl) discovers a 22-ton rice cache 24 km southwest of O Rang, Cambodia.

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- An enemy force attacks elements of the 3d ARVN Regt in night defensive positions 21 km north of A Chau, Thua Thien Province. The troops return fire with organic weapons supported by artillery and TACAIR (En: 32 KIA, 3 IW, 3 CSW; Frd: None).
- Two caches are located in the Fishhook area of Cambodia by elements of the 1st Cav Div (Aml). The total weight of rice in the caches is 33 tons.
- 17 -- An 81 ton cache of rice is found by an element of the 2d Bde, 1st Cav Div (Aml) in the Fishhook area of Cambodia.
  - The 1st Bde, 1st Cav Div (Aml) discovers an enemy cache containing: 700 mortar rounds, 70 recoilless rifle rounds, 200 B-40, 500 CHICOM hand grenades, 40 antitank mines, 16,800 AK-47 rounds and over five tons of rice 10 km southwest of O Rang, Cambodia.
- 18 -- LTG James W. Sutherland, USA, assumes command of XXIV Corps replacing LTG Melvin Zais, USA.
  - DOD announces US casualties for the week ending 13 Jun are 130 KIA and 364 WIA; the number of wounded is the lowest in over four years.
  - The Cambodian Parliament asks the United Nations to send forces to protect the Angkor temples. The appeal states the Communist attack and occupation violates the UN Charter and the 1954 International Convention of the Hague.
  - President Thieu announces he is beginning 1 Jul to: reform the military structure, begin a special pacification campaign, and reorganize the machinery of public services.
  - Elements of the 2d Bde, 1st Cav Div (Aml) discover two caches 32 km southwest of O Rang, Cambodia. The caches contain 320 SKS rifles, 10,000 feet of commo wire and 61 tons of rice.
- 19 -- DA announces murder charges against two more enlisted men in the alleged My Lai massacre. The men charged are: PVT Gerald A. Smith and SGT Esequiel Torres who are among 12 officers and enlisted men who have been charged with murder, rape, and assault during a sweep in the My Lai area 16 Mar 68.
  - MG Hugh F. Foster, Jr., USA, assumes duties as CG, 1st Sig Bde replacing MG Thomas M. Rienzi, USA.
  - An element of the 2d Bde, 4th Inf Div engages an estimated enemy company 38 km northeast of An Khe, Binh Dinh Province. Friendly forces received artillery and gunship support (En: 25 KIA, 1 Det, 2 IW; Frd: 2 KIA, 2 WIA).
- 20 -- USN announces GM3 James B. Hunsucker will be tried by General Court Martial in connection with the loss of a PBR on 5 Feb while operating in the Mekong River. The boat was captured when it strayed into Cambodian waters. The crew was returned on 28 Feb; the boat's location is unknown.

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- An element of the 10th ARVN Regt, supported by helicopter gunships, engages an enemy force 13 km east of Ben Tre, Kien Hoa Province (En: 90 KIA, 4 Det, 18 IW, 6 CSW; Frd: 4 KIA, 4 WIA).
- Operation CUU LONG/21/11 initiated 5 Jun in Chuong Thien Province is terminated (En: 182 KIA, 17 Det, 39 IW, 3 CSW; Frd: 21 KIA, 114 WIA, 1 IW).
- 21 -- Congressman G. V. Montgomery, Chairman, House of Representatives Select Committee and party arrive in Saigon for 13-day visit to investigate all aspects of US involvement in SEA.
- J. H. Chafee, SECNAV, arrives in Saigon for six-day visit in connection with turnover of "Brown Water" craft to the VNN and an update of naval activities.
- Enemy forces fire nine 122mm rockets into the City of Danang resulting in injuries to seven Vietnamese civilians.
- FVT Michael A. Schwarz is found guilty on 12 counts of premeditated murder of civilians in Son Thang, Quang Nam Province on 19 Feb. He is sentenced to life imprisonment at hard labor, dishonorable discharge, and forfeiture of all pay and allowances.
- Elements of the 2d Bde, 1st Cav Div (Amb) discover 41 tons of rice in two caches 24 km southwest of O Rang, Cambodia.
- An element of the 3d VNMC Bn engages an enemy force 17 km southwest of Ca Mau, An Xuyen Province. The five-hour contact is supported by helicopter gunships (En: 38 KIA, 7 Det, 16 IW; Frd: 1 KIA, 16 WIA).
- 22 -- In appropriate ceremonies in Saigon the USN turned over 273 combat craft of the "Brown Water" Navy to the VNN. The action makes the VNN the world's 9th largest Navy.
- An element of the 1st ARVN Regt conducting a search 10 km southeast of Khe Sanh, Quang Tri Province, discovers a cache containing a small amount of munitions and large quantities of rice. Total weight is 44 tons.
- 23 -- An element of the 1st ARVN Regt on search-and-clear mission engages an unknown size enemy force 30 km southeast of Khe Sanh, Quang Tri Province (En: 47 KIA, 12 IW, 4 B-40 launchers, 150 cases 12.7mm ammo, 220 cases AK-47 ammo, 780 B-40 rounds, and 3 tons rice; Frd: 4 WIA).
- BG George H. Young, Jr., COL Nels A. Parson, and MAJ Robert W. McKnight are exonerated from complicity in the My Lai incident. The DA announcement says charges were dropped when it was determined they were unsupported by the evidence.
- 24 -- US Senate votes 81-10 to repeal the Gulf of Tonkin Resolution.
- An element of the 1st ARVN Regt conducting a search 38 km southeast of Khe Sanh, Quang Tri Province finds 43 graves each containing one enemy body. Enemy believed to have KBA ten days earlier (En: 43 KIA, 25 IW; Frd: None).

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- With support from helicopters, elements of the 32d ARVN Regt engage unknown size enemy 22 km southwest of Ca Mau, An Xuyen Province (En: 33 KIA; Frd: None).
- An operation begins to evacuate more than 8,000 Cambodian troops and civilians from the three northeastern provinces of Cambodia.
- 25 -- MG Charles C. Noble, USA assumes command of US Army Engineer Command, Vietnam replacing the acting commander, BG Robert M. Tarbox, USA.
- A USN attack aircraft, escorting an unarmed reconnaissance plane, fires on an antiaircraft position in NVN in response to hostile actions by enemy radar controlled antiaircraft position.
- NVN agrees to accept 62 sick and wounded prisoners which the GVN has been trying to return for nearly one year.
- An element of the 3d Bde, 1st Cav Div (Ambl) uncovers a large weapons and munitions cache 24 km northeast of Snoul, Cambodia. Items found in the cache include: 103 IW, 34 CSW, 1,113 mortar rounds, 62 recoilless rifle rounds, 1,932 rocket grenades, 4,469 CHICOM grenades, 1,100 rounds of 82mm rounds, and 459,000 rounds of small arms.
- 26 -- An element of the 46th ARVN Regt receives RPG and small arms fire 5 km east of Go Dau Ha, Tay Ninh Province. ARVN return fire with organic weapons supported by helicopter gunships (En: 20 KIA; Frd: 1 KIA, 1 WIA).
- MACV news release reports that losses of US aircraft losses from all causes in connection with the war in SEA surpasses the 7,000 mark.
- In the Fishhook area of Cambodia, 28 km southeast of Snoul, an element of the 3d Bde, 1st Cav Div (Ambl) discovers a cache containing 49 IW, 434 mixed mortar rounds, 300 recoilless rifle rounds, 549,760 rounds of small arms, and 1 ton of C-4. Approximately 8 km north another element of the brigade discovers more than 40 tons of rice.
- 28 -- An element of the 2d ARVN Regt engages an estimated enemy company 1 km south of Gio Linh, Quang Tri Province. Fire is returned with organic weapons and artillery support (En: 41 KIA, 2 Det, 10 IW, 9 CSW; Frd: 10 WIA).
- Honorable Stanley R. Resor, Secretary of the Army, arrives in Saigon for 10-day inspection visit.
- The first city and province council elections since 1965 are held throughout RVN.
- 29 -- An element of the 1st ARVN Regt discovers an 11-ton rice cache on a sweep 31 km southwest of Quang Tri City.
- An element of the 51st ARVN Regt sweeping an area 19 km northwest of An Hoa, Quang Nam Province discovers 35 enemy bodies believed to have been KBA 24 hours earlier. In addition, a cave is located in the area containing: 124 IW, and 33 CSW.
- 30 -- GEN Creighton W. Abrams departs RVN for surgery.

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- SECNAV John H. Chafee announces the USN combat role on the rivers of RVN will end by 30 Dec 70 with the turnover of the remaining USN river craft to the VNN.
- Elements of the 1st Bde, 4th Inf Div find 14-ton cache 6 km northwest of Phu My, Binh Dinh Province. The cache contains: 15,000 pounds of rice, 13,000 pounds of salt, 24 B-40, 115 grenades, 2,000 AK-47 rounds.
- All US toops are withdrawn from Cambodian territory.
- Cumulative results of US/RVNAF operations in Cambodia are: (En: 4,784 KIA, 9,115 IW, 1,267 CSW, 5,319 tons of rice, 1,768 tons of ammunition, 41 tons of explosives, 55 tons of medical supplies; Frd: 338 US KIA, 1,529 US WIA).
- 30 -- Operation LAMSON 355 initiated 1 Apr in Thua Thien Province is terminated (En: 693 KIA, 22 Det, 219 IW, 52 CSW; Frd: 95 KIA, 189 WIA, 2 MIA).
- Operation LAMSON 356 initiated 1 Apr in Quang Tri Province is terminated (En: 346 KIA, 2 Det, 68 IW, 17 CSW; Frd: 65 KIA, 150 WIA, 6 MIA).
- Operation LAMSON 357 initiated 1 Apr in Thua Thien Province is terminated (En: 156 KIA, 33 IW, 19 CSW; Frd: 10 KIA, 30 WIA).
- Operation LAMSON 358 initiated 1 Apr in Thua Thien Province is terminated (En: 628 KIA, 11 Det, 128 IW, 42 CSW; Frd: 92 KIA, 215 WIA).
- Operation LAMSON 359 initiated 1 Apr in Quang Tri Province is terminated (En: 116 KIA, 2 Det, 35 IW, 17 CSW; Frd: 19 KIA, 90 WIA).
- Operation QUYET THANG 45A initiated 1 Apr in Quang Ngai Province is terminated (En: 667 KIA, 74 Det, 94 IW, 20 CSW; Frd: 23 KIA, 118 WIA).
- Operation QUYET THANG 54A initiated 1 Apr in Quang Tin Province is terminated (En: 483 KIA, 36 Det, 109 IW, 12 CSW; Frd: 99 KIA, 353 WIA, 38 MIA).
- Operation QUYET THANG 63A initiated 1 Apr in Quang Ngai Province is terminated (En: 609 KIA, 50 Det, 246 IW, 17 CSW; Frd: 34 KIA, 171 WIA).
- BG John G. Hill, Jr., USA, assumes duties as CG, 1st Bde, 5th Inf Div (Mech) replacing BG William A. Burke, USA.
- US military strength in RVN is 412,675.

July

- 1 -- MG Alan J. Armstrong, USMC, assumes command of the 1st Marine Aircraft Wing replacing MC William G. Thrash, USMC.
- President Nixon announces the appointment of David K. E. Bruce as Chief, US Peace Negotiator in Paris.
- ADM Elmo R. Zumwalt, Jr., USN, is sworn in as Chief of Naval Operations, relieving ADM Thomas H. Moore, USN.

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- The Naval Support Command, Danang is turned over to the Army with the exception of some Vietnamization projects which will operate under a naval support facility.
- Operation CUU LONG 7/2 initiated 16 Apr in Kinh Tuong and Kien Hoa Provinces is terminated (En: 815 KIA, 157 Det, 309 IW, 28 CSW; Frd: 129 KIA, 765 WIA, 3 MIA, 11 IW).
- An RF company and PF platoon receive a ground attack 10 km southeast of Quang Tri City from an estimated three enemy companies (En: 125 KIA, 9 Det, 47 IW, 12 CSW; Frd: 9 KIA, 35 WIA).
- RADM Robert E. Adamson, Jr., USN, breaks his flag as Commander, Naval Support Activities, Saigon, as Naval Support Activities Danang is reduced to a facility of NSA Saigon.
- 2 -- President Thieu signs a decree changing Corps Tactical Zones to Military Regions effective 1 Jul.
  - ADM Thomas H. Moorer, USN, is sworn in as Chairman, Joint Chiefs of Staff, relieving GEN Earle G. Wheeler, USA.
  - An element of the 42d ARVN Rgr Bn detonates three booby traps simultaneously 17 km southeast of Ben Tre, Kien Hoa Province (En: 1 KIA; Frd: 24 KIA, 33 WIA).
- 3 -- A water mine is detonated by a civilian ferry boat 3 km northeast of Dong Ha, Quang Tri Province resulting in death of 40 VN civilians, four wounded and 13 missing.
- 4 -- SECSTATE William P. Rogers arrives in Saigon to attend the Conference of Troop Contributing Countries.
- 5 -- An element of the 42d RF Co engages an unknown size enemy force 25 km northeast of Cao Lanh, Kien Phong Province (En: 24 KIA, 6 IW; Frd: 2 WIA).
  - An element of the 32d ARVN Regt supported by helicopter gunships 25 km southwest of Ca Mau, An Xuyen Province makes contact with unknown sized enemy (En: 25 KIA, 3 IW; Frd: 2 WIA).
- 7 -- MG George W. Casey, USA, CG, 1st Cav Div (Ambl) is killed when the helicopter he was piloting crashes from unknown causes.
  - Eight PF platoons supported by the 336th AHC engage an unknown size enemy force 6 km west of Cau Ke, Vinh Binh Province (En: 40 KBA; Frd: 10 KIA, 13 WIA, 4 IW, 1 CSW).
- 8 -- Elements of the 101st Abn Div (Ambl) engage 150 enemy troops 4 km southwest of Khe Sanh, Quang Tri Province (En: 139 KIA, 4 Det, 20 IW, 7 CSW; Frd: 4 KIA, 7 WIA).
- 9 -- The first C5 Galaxy aircraft to land in RVN arrives in Cam Ranh Bay.
  - SECDEF announces the fourth increment of US redeployment numbering 50,000 spaces by 15 Oct will be exceeded. No specific number is given.

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- DOD announces US combat deaths for the week ending 4 Jul are 44, the lowest figure since the week ending 3 Dec 66.
- Operation CUU LONG 21/14 initiated 20 Jun in An Xuyen Province is terminated (En: 175 KIA, 30 Det, 41 IW, 2 CSW; Frd: 3 KIA, 27 WIA).
- COL John F. Sadler, USA, replaces COL Stephen E. Cavanaugh, USA, as Chief, Studies and Observations Group.
- 11 -- GEN William C. Westmoreland, USA, Chief of Staff of the Army, arrives in Saigon for a five-day visit.
  - An element of the 3d ARVN Regt conducting a search engages an unknown size enemy force 3 km southwest of Khe Sanh, Quang Tri Province. Support is received from helicopter gunships (En: 43 KIA, 3 IW, 1 CSW; Frd: None). Five hours later in the same area 100 enemy bodies are discovered estimated to have been KBA 24 hours earlier.
  - NVN accepts 62 prisoners of war and 24 fishermen in the largest single repatriation of the war.
- 12 -- An element of the 3d ARVN Regt engages an estimated 40 enemy 2 km southwest of Khe Sanh, Quang Tri Province (En: 30 KIA, 3 IW, 6 CSW; Frd: None).
  - In a search operation 31 km southwest of Quang Tri City, an element of the 1st ARVN Regt finds 65 enemy bodies KBA approximately 24 hours earlier; also captured are 8 IW, 2 CSW; Frd: None.
  - COL James B. Hendry, USA, who was to have taken command of the 199th Inf Bde, is seriously injured in the crash of his command and control helicopter 75 miles east of Saigon.
- 13 -- The American Embassy, Bangkok, announces US troop strength in that country has been reduced 6,000 from 48,000 to 42,000. The lowered ceiling was effective 30 June.
- 14 -- GEN J. D. Ryan, USAF, Chief of Staff of the Air Force, arrives in Saigon for a three-day visit.
  - An element of the 199th Inf Bde on ground reconnaissance finds a cache of wheat flour weighing 18,260 pounds. The bags are marked, "American Wheat Flour, Russ Industries, Wichita, Kansas, Destination Saigon."
  - A special subcommittee announces that there was "a concerted action among military and State Department officers to suppress all evidence of the allegation and its investigation" concerning the incident at My Lai. The report says blame cannot be fixed only on MG Samuel W. Koster because James May, a State Department officer and senior province advisor, and senior US advisors to the 2d ARVN Div received allegations which should have been forwarded to Saigon.
- 15 -- GEN Creighton W. Abrams is released from the Army hospital in Japan where he underwent surgery -- is on leave for an indefinite period.

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- Operation CLINCH VALLEY initiated 9 Jul in Quang Tri Province is terminated (En: 188 KIA, 1 Returnee, 3 CSW; Frd: None).
- An element of the 199th Inf Bde discovers an eight-ton rice cache 10 km northeast of Ham Tan, Binh Tuy Province.
- 16 -- GEN Leonard F. Chapman, Jr., USMC, Commandant of the Marine Corps arrives in Saigon for one-day visit.
- 17 -- An element of the 199th Inf Bde on ground reconnaissance finds an 11.7 ton rice cache 11 km northeast of Ham Tan, Binh Tuy Province.
  - An element of the 7th Mar Regt discovers a five-ton weapons cache 16 km southwest of An Hoa, Quang Nam Province. The cache contains: 17 IW, 8 CSW, 82,650 AK-47 rounds, 718 mixed mortar rounds, and 50 pounds of TNT.
- 19 -- USARV marks its fifth anniversary.
- 20 -- Two 122mm rockets land in downtown Saigon. One lands near the Ministry of Public Works and Communications, damaging one house; the other lands in a fish pond on the Presidential Palace grounds causing no casualties or damage except some broken windows.
- 21 -- MG George W. Putnam, Jr., USA, assumes command of the 1st Cav Div (Ambl) replacing MG George W. Casey, USA, who was killed in a helicopter crash on 7 Jul.
  - Operation GREEN RIVER initiated 19 Jan in Quang Tri Province is terminated (En: 338 KIA, 495 Det, 83 IW, 27 CSW; Frd: 62 KIA, 749 WIA).
  - President Thieu announces he would oppose to the end any form of a coalition government, neutrality, or immediate and unconditional cease-fire with the Communists.
- 22 -- COL Samuel G. Cockerham, USA, assumes duties as CO, 1st Avn Bde, replacing MG George W. Putnam, USA.
  - Elements of the 1st Bde, 1st Cav Div (Ambl) discover a four-ton cache 7 km northeast of Rang Rang, Long Khanh Province. The cache contains: 182 rifle grenades, 573 mixed mortar rounds, 3 rocket launchers, and 25 pounds of explosives.
- 23 -- Elements of the 2d Bde, 101st Abn Div (Ambl) evacuate FSB Ripcord after intensive attacks-by-fire and ground probes. The FSB located 37 km west of Hue, Thua Tien Province was used in Operation TEXAS STAR (En: 415 KIA, 92 IW, 24 CSW; Frd: 74 KIA, 490 WIA, 3 MIA, 4 CH-47 Helo Dest).
- 24 -- Two elements of the 4th Inf Div engage enemy forces 30 km northwest of An Khe, Binh Dinh Province in a five-hour contact (En: 39 KIA; Frd: None, 1 LOH Dest).
  - An element of the 12th ARVN Regt engages an unknown size enemy force 24 km southeast of Cau Lanh, Kien Phong Province in a five-hour contact (En: 25 KIA, 14 IW; Frd: 1 KIA, 7 WIA).

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- An element of the 1st Bde, 1st Cav Div (Ambl) on ground reconnaissance 12 km northwest of Dong Bo, Long Khanh Province receives automatic weapons and B-40 fire. The unit returns fire with organic weapons supported by TACAIR and artillery (En: 20 KIA; Frd: None).
- Ambassador Ellsworth Bunker returns to Saigon after consultations in the US. He is accompanied by the new Chief Negotiator to the Paris Talks, Ambassador David K. E. Bruce. Ambassador Bruce will remain in RVN for four days prior to leaving for Paris.
- 25 -- An element of the 1st ARVN Regt on a search operation 41 km southeast of Khe Sanh, Quang Tri Province discovers 102 huts destroyed by air and the bodies of 53 enemy KBA approximately two weeks earlier. Ordnance discovered in the area were: 21 IW, 5 CSW, and one ton of ammo.
- 27 -- An element of the 1st Bde, 1st Cav Div (Ambl) discovers a weapons cache 11 km northwest of Dong Bo, Long Khanh Province. The 7,000-pound cache contains: 3,000 AK-47 rounds, 240 recoilless rifle rounds, 67 B-40/41 rounds, 4,000 pounds of Composition-B, and 500 pounds of TNT.
- Demonstrators tear down the National Ensign from the Indian Consulate in protest against India's reception of a North Vietnamese delegation in New Delhi.
- 28 -- COL Robert K. Weaver, USA, assumes duties as Staff Judge Advocate replacing COL Larry H. Williams, USA.
- President Thieu again rejects "any form" of coalition with the Communists.
- 29 -- Announcement is made that all 1,766 hamlets in III MR are rated secure in the latest HES evaluation completed in mid-Jul.
- 30 -- Elements of the 4th Inf Div and 47th ARVN Regt engage enemy forces 30 km south of Pleiku City in four-hour contact. Support is received from TACAIR and gunships (En: 44 KIA, 4 IW; Frd: 5 WIA, 2 LOH Dest).
- An element of the 32d ARVN Regt engages an unknown size enemy force 7 km southeast of Tan Pho, An Xuyen Province (En: 18 KIA; Frd: None).
- 31 -- Operation HO RANG I initiated 16 Jul in Binh Dinh Province is terminated (En: 94 KIA, 2 Det, 108 IW, 10 CSW; Frd: 11 KIA, 41 WIA).
- LTG Serm Na-Nakorn, RTA, assumes command of Royal Thai Army Volunteer Force replacing LTG Chaveng Youngcharoen, RTA.
- US military strength in RVN is 406,980.

August

- 1 -- GEN Ralph E. Haines, Jr., USA, CINCUSARFAC, arrives in Saigon for an eight-day visit for update and inspection of units and facilities.

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- Tran Van Chon, VNN CNO is promoted to Rear Admiral.
- An RF company in ambush positions 7 km southwest of Tam Ky, Quang Tin Province engages an unknown size enemy force with organic weapons (En: 18 KIA, 11 IW; Frd: None).
- Enemy forces begin a series of concentrated attacks against FSB Barnett, 60 km west of Hue, in Quang Tri Province.
- 2 -- Operation CUU LONG 32/10, initiated 25 Jul, in An Xuyen Province, is terminated (En: 71 KIA, 13 IW, 2 CSW; Frd: 1 KIA, 6 WIA).
- 3 -- In an area 11 km northwest of Cai Lay, Dinh Tuong Province an element of the 12th ARVN Regt engages an unknown size enemy force in an eight-hour contact. The regiment is supported by helicopter gunships (En: 44 KIA, 3 IW; Frd: 9 KIA, 63 WIA).
- 4 -- An element of the 12th ARVN Regt with helicopter support engages enemy forces 18 km northwest of Cai Be, Dinh Tuong Province (En: 24 KIA, 6 IW, 4 CSW; Frd: 3 WIA).
  - A company of the 31st ARVN Regt engages enemy forces 10 km southwest of Long My, Chuong Thien Province (En: 22 KIA, 4 IW, 1 CSW; Frd: 1 WIA).
- 5 -- A portion of the ammunition dump at the air field 3 km west of Vinh Long City exploded due to unknown cause. Results are (En: Unk; Frd: 18 WIA, 19 helicopters damaged, 200 2.75mm rockets and grenades destroyed).
- 6 -- In a two-hour contact an element of the 10th ARVN Regt engages an unknown size enemy force 11 km northeast of Mo Cay, Kien Hoa Province (En: 22 KIA, 2 Det; Frd: 1 KIA, 9 WIA).
  - A Hoi Chanh leads elements of the 10th ARVN ACR and 46th ARVN Regt to a 25-ton cache 21 km northwest of Svay Rieng, Cambodia. The cache contains over 4,000 rounds of mixed mortars.
  - Enemy forces begin a series of attacks on FSB O'Reilly against elements of the 1st ARVN Div. The FSB is located approximately 40 km west of Hue, Thua Thien Province.
- 7 -- An element of the 6th VNMC Bn in night defensive positions receives a mortar attack and ground probe 33 km northeast of An Hoa, Quang Nam Province. The unit returns fire with organic weapons (En: 23 KIA, 3 IW, 2 CSW; Frd: 1 WIA).
  - An element of the 6th ARVN Regt on a search operation 17 km southwest of Kham Duc, Quang Tin Province engages an unknown size enemy force (En: 20 KIA, 6 IW, 1 CSW; Frd: None).
  - With helicopter support an element of the 32d ARVN Regt engages enemy forces for four-hours 16 km southwest of Kien Hung, Chuong Thien Province (En: 34 KIA, 3 IW; Frd: 1 KIA, 4 WIA).
- 8 -- An element of the 4th Inf Div engages an estimated enemy platoon with small arms and rocket fire. TACAIR and gunships support and the 11th ARVN Rgr Bn reacts (En: 20 KIA, 5 Det, 6 IW, 3 CSW; Frd: None).

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- 10 -- Gunships of the 23d (Americal) Div receive heavy small arms fire and react with organic weapons and artillery. Action takes place 40 km west of Tam Ky, Quang Tin Province (En: 33 KIA; Frd: None).
- BG Elmer R. Ochs, USA, assumes command of the 173d Abn Bde replacing BG Hubert S. Cunningham, USA.
- 11 -- While on an ARC LIGHT BDA mission, the 31st ARVN Rgn Bn engages an estimated enemy battalion. Artillery and TACAIR support the contact 10 km northeast of Kampong Trach, Cambodia one km from the RVN border (En: 45 KIA; Frd: 15 KIA, 70 WIA).
- Operation CUU LONG/32/12 initiated 3 Aug in Kien Giang Province is terminated (En: 78 KIA, 3 IW, 2 CSW; Frd: 8 KIA, 10 WIA).
- 12 -- A PF platoon receives B-40 attack from an estimated two enemy companies 16 km southeast of Quang Tri City. Elements of the 54th ARVN Regt, 11th ARVN Armd Cav, two RF companies and a second PF platoon are inserted and engage the enemy in a 12-hour contact (En: 66 KIA, 5 Det, 19 IW, 11 CSW; Frd: 10 KIA, 31 WIA).
- BG Jack W. Hemingway, USA, assumes command of the 1st Avn Bde replacing the acting commander COL Samuel G. Cockerham, USA.
- 13 -- Elements of the 54th ARVN Regt and 11th ARVN ACS engage an estimated two enemy battalions while on a search 16 km southeast of Quang Tri City (En: 109 KIA, 12 Det, 22 IW, 12 CSW; Frd: 4 KIA, 8 WIA).
- An element of the 7th ARVN Div with support from VNAF TACAIR engages an unknown size enemy force 15 km northeast of Cai Be, Dinh Tuong Province (En: 58 KIA, 2 Det, 4 IW, 2 CSW; Frd: 14 KIA).
- LTC V. B. Brown, assumes command of the New Zealand Army Forces, Vietnam replacing LTC K. C. Fenton.
- 14 -- GEN Creighton W. Abrams, USA, returns to RVN after hospitalization in Japan and recuperative leave.
- Coast Guard Squadron One is disestablished after five years of participation in the Vietnam War. Coast Guard assets have been turned over to the VNN under the ACTOV and SCATTER programs.
- 15 -- In three contacts in the vicinity of FSB O'Reilly elements of the 1st ARVN Div and the 101st Abn Div (Ambl) repulse continuing enemy probes against the base (En: 24 KIA, 1 IW, 2 CSW; Frd: 2 KIA, 17 WIA).
- An element of the 4th ARVN Regt discovers 180 bicycles 12 km southeast of Khan Duc, Quang Tri Province.
- An element of the 199th Inf Bde finds a cache 25 km north of Ham Tan, Binh Tuy Province containing \$22,300 in large denomination bills.

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- 17 -- A company of the 1st Bde, 101st Abn Div (Airbl) on search and sweep 23 km southwest of Quang Tri City, finds the bodies of 34 enemy believed to have been killed the previous day by TACAIR and artillery.
- 18 -- An estimated enemy battalion makes a ground attack against elements of the 3d ARVN Regt in night defensive positions 27 km southwest of Quang Tri City. The friendly unit returns fire with organic weapons and is supported by artillery (En: 38 KIA, 1 Det, 7 IW, 3 CSW; Frd: 1 WIA).
- An element of the 31st ARVN Regt engages an estimated enemy company in a two-hour contact 12 km southwest of Vi Thanh, Chuong Thien Province (En: 22 KIA, 7 IW, Frd: 6 WIA).
- Two ocean-going ships dock in Phnom Penh. These are the first ships to reach the Cambodian capital since 18 Mar.
- 19 -- SECDEF confirms the average sortie rate for B-52 bomber operations in SEA is now 1,000 per month. This step coincides with the reduction of US operations and the continuing redeployment of troops.
- 20 -- Prime Minister Sir Keith Holyoake announces New Zealand will withdraw one of its two infantry companies from RVN. No firm date is set for the withdrawal of the 144 men.
- Thailand's Army Chief of Staff announces that 2,000 Thai volunteer troops will go to Cambodia for combat duty along the Cambodian-Thai border.
- In a major shift of military commanders in RVN, LTG Lu Mong Lan, II Corps and MR 2 Commander, is ordered to the post of Inspector General of the Army and is replaced by MG Ngo Dau. MG Dau is replaced as IV Corps and MR 4 Commander by MG Ngo Quang Truong formerly CG, 1st ARVN Div. BG Pham Van Phu moves from commander of the VN Special Forces to CG, 1st ARVN Div.
- 21 -- The State Department announces the possibility is open for US advisers and equipment to engage in protective reaction operations in Laos.
- 22 -- An element of the 1st ARVN Regt on a search 41 km west of Hue, Thua Thien Province finds 20 enemy bodies NVA approximately one day earlier.
- A PF platoon is attacked by an estimated enemy company 20 km south of Phu Cat, Binh Dinh Province. Two RF companies and ROK artillery and gunships provide support (En: 40 KIA, 3 Det, 16 IW, 7 CSW; Frd: 1 KIA, 1 WIA).
- Announcement is made President Nixon has given USAF a go-ahead to strike VC/NVA troops and supplies anywhere in Cambodia.
- 23 -- An element of the 17th ARVN ACAT on a search mission 7 km south of Hoi An, Quang Nam Province makes contact with an enemy force (En: 26 KIA, 10 Det, 1 Returnee, 1 IW; Frd: 1 WIA).

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- In Thua Thien Province in the vicinity of FSB O'Reilly an enemy force attacks an element of the 1st ARVN Regt in night defensive positions (En: 24 KIA, 2 IW, 4 CSW, 125 pounds TNT; Frd: 1 KIA, 6 WIA).
- 24 -- Operation PICKENS FOREST initiated 15 Jul in Quang Nam Province is terminated (En: 84 KIA, 281 Det, 46 IW, 11 CSW; Frd: 2 KIA, 54 WIA).
  - One company of the 31st ARVN Regt supported by gunships engages an unknown size enemy force 15 km southeast of Kien Hung, Chuong Thien Province (En: 51 KIA, 1 IW; Frd: 8 KIA, 17 WIA).
- 25 -- An element of the 41st ARVN Regt engages an enemy force 7 km northeast of Phu My, Binh Dinh Province. Support is received from TACAIR, gunships, and artillery (En: 20 KIA, 6 IW, 1 CSW; Frd: None).
  - Ba Chuc, Chau Doc Province receives a mortar attack followed by a ground attack. The estimated enemy company occupies the market place. Elements of the 9th ARVN Cav, 15th ARVN Regt and CIDG company react (En: 3 KIA, 1 CSW; Frd: 1 KIA, 10 WIA, 10 civilians killed, 40 civilians wounded).
  - The Honorable Egil Krogh, Deputy Assistant to the President for Domestic Affairs arrives in RVN for an eight-day visit to study the magnitude and consequences of drug abuse problems of US troops in RVN.
  - COL Robert Bernstein, USA, assumes duties as MACV Command Surgeon replacing BG Richard R. Taylor, USA.
- 26 -- Troops of the 1st ARVN Regt on a search mission in the vicinity of FSB O'Reilly, 18 km west of Hue, Thua Thien Province, engage an element of K-9 Bn (En: 42 KIA, 6 IW, 4 CSW; Frd: 3 KIA, 9 WIA).
  - Operation ELK CANYON initiated 11 Jul in Quang Tin Province is terminated (En: 56 KIA, 1 Det, 35 IW, 13 CSW; Frd: 7 KIA, 91 WIA, 30 MIA).
  - Operation VU NINH 12 initiated 16 Jun in Quang Nam Province is terminated (En: 76 KIA, 1 Det, 45 IW, 5 CSW; Frd: 16 KIA, 59 WIA, 1 MIA).
- 27 -- Vice President Agnew visits Saigon on his Far East Tour.
  - US casualties for the week ending 22 Aug are the lowest in more than four years. The death toll of 52 was the lowest since 3 Dec 66, when 44 Americans were killed.
- 28 -- Vice President Agnew calls on Cambodian Chief of State and Prime Minister prior to a working meeting with other Cambodian officials.
- 10 -- South Vietnamese go to the polls to elect 30 senators in an off-year election.
  - NVA attack a Buddhist orphanage in An Hoa, Quang Nam Province systematically destroying the dormitories and inflicting damage to a pagoda and a house. Fifteen civilians are killed and 45 wounded, mostly children.

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- Sappers enter the AF POL Tank Farm at Cam Ranh Bay and destroy one tank resulting in loss of 460,000 gallons of gas.
- 31 -- On Phu Quoc Island, 5 km north of An Thoi, 40 VC PWs being escorted by two VNN guards attack the guards (En: 9 KIA, 1 WIA, 1 Returnee, 29 Escapees; Frd: 1 KIA, 1 WIA).
- An element of the 1st ARVN Regt finds bodies of 20 enemy KBA approximately 6-12 hours earlier. The search was in the vicinity of FSB O'Reilly 40 km west of Hue, Thua Thien Province.
- An element of the 700 RF Co spots an estimated enemy company attempting to cross Route 1, 20 km southwest of Song Mao, Binh Thuan Province. Elements of the 1st Cav Div (Amb) and 44th ARVN Regt reinforce (En: 56 KIA, 12 IW, 9 CSW; Frd: 3 KIA, 22 WIA).
- Operation CUU LONG/31/16, initiated 26 Jul in Chuong Thien Province, is terminated (En: 173 KIA, 19 Det; Frd: 27 KIA, 68 WIA).
- US military strength in RVN is 398,784.

September

- 1 -- GEN Lucius D. Clay, Jr., USAF, assumes command of the 7th Air Force and duties as DEFCOMUSMACV for Air replacing GEN George S. Brown, USAF.
- COL Robert W. Leonard, USA, assumes duties of MACV Chief of Information replacing COL Joseph F. H. Cutler.
- US Senate rejects a proposal to force withdrawal of US troops from Indochina.
- 2 -- The VNN assumes command of all of the "inner barrier" of Operation MARKET TIME. The outer barrier consisting of blue water ships remains under USN command.
- The VNAF takes over all assets and operations of the USA 190th Assault Helicopter Company.
- Sir Robert Thompson, Special Representative to the President, arrives in RVN for 28-day stay to assess conditions in RVN.
- 7 -- At FSB O'Reilly, 41 km west of Hue, Thua Thien Province, an element of the 1st ARVN Regt receives a ground attack while in night defensive positions. The unit returns fire with organic weapons (En: 17 KIA, 2 IW, 3 CSW; Frd: 4 KIA, 4 WIA).
- One km north of Y bridge in Saigon a group of disabled VN veterans throw two hand grenades at National Police and US MPs. Three MPs are wounded.

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- 4 -- Operation QUYET THANG 63B, initiated 1 Jul in Quang Tin Province, is terminated (En: 249 KIA, 59 IW, 10 CSW; Frd: 24 KIA, 128 WIA).
  - 5 -- COL John G. Jones, USA, assumes duties as SJS replacing COL W. Russell Todd, USA.
    - Congressional delegation arrives in RVN on a five-day visit to study problems associated with drugs and alcoholism in the military services.
    - Operation TEXAS STAR, initiated 1 Apr in Quang Tri and Thua Thien Provinces, is terminated (En: 2,053 KIA, 89 Det, 420 IW, 181 CSW; Frd: 349 KIA, 1,774 WIA).
  - 6 -- The Binh Chanh Sub-sector Gia Dinh Province, ammunition dump explodes from unknown causes with loss of two tons of ammunition.
  - 7 -- A joint US-Thai announcement is made of the pending withdrawal of 9,800 US troops from Thailand.
    - Thai Deputy Prime Minister announces half of the 12,000-man Thai Division in RVN will be withdrawn.
  - 8 -- The Pentagon announces that future emergencies requiring rapid buildup of armed forces will be met by mobilization of Reserve and National Guard units vice higher draft calls as during the Vietnam War.
    - The 61st Rgr Border Defense Bn at Tra Bong SF Camp and the Tra Bong District Headquarters, 32 km northwest of Quang Ngai City, receive a coordinated attack-by-fire and sapper ground probe (En: 52 KIA, 5 Det, 14 IW, 1 CSW; Frd: 39 KIA, 56 WIA, 2 MIA).
  - 9 -- An element of the 1st Cav Div (Ambl) finds an estimated 19-ton cache 15 km east of Dong Xoa, Phuoc Long Province. The cache contains: 196 B-41, 190 B-40, 209 120mm rounds, 1,440 rounds AK-47, 3 boxes TNT, 144 B-41 charges, and miscellaneous other gear.
  - 10 -- MG Herron N. Maples, USA, assumes the duties of MACJ4 replacing MG Raymond C. Conroy, USA.
  - 13 -- An enemy force attacks the Tam Binh PF/PSDF outpost 12 km south of Cai Lay, Dinh Tuong Province. An element of the 11th ARVN Regt reacts with helicopter support (En: 33 KIA, 2 IW; Frd: 3 KIA, 9 WIA, 6 VN civilians killed and 3 injured).
  - 14 -- An element of the 3d ARVN Regt in ambush positions 25 km southwest of Quang Tri City, engages an enemy force (En: 25 KIA, 3 IW, 1 CSW, 200 pounds of TNT; Frd: 5 KIA, 7 WIA).
  - 15 -- In An Xuyen Province 10 helicopters are shot down while engaging enemy forces. Enemy losses are unknown; friendly losses are 2 KIA, 9 WIA, 2 UH-1B Dest, 8 helicopters damaged.
  - 16 -- In the vicinity of FSB O'Reilly, 40 km west of Hue, Thua Thien Province an element of the 1st ARVN Regt engages an unknown size enemy force. Gunships from the 101st Abn Div (Ambl) support (En: 46 KIA; Frd: 4 WIA).

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- [REDACTED]
- A CIDG element in ambush positions 9 km northeast of Loc Ninh, Binh Long Province engages an enemy force with small arms (En: 20 KIA; Frd: 2 KIA).
  - 18 -- LTG Hal B. Jennings, USA, Surgeon General, DA, arrives in RVN to make a routine visit to medical units throughout the Republic.
    - Operation CUU LONG/CD/NVT, initiated 25 Jul in An Xuyen Province, is terminated (En: 82 KIA, 10 Det, 150 Returnees, 18 IW, 5 CSW; Frd: 10 KIA, 39 WIA).
    - Operation CUU LONG/21/17, initiated 1 Sep in An Xuyen and Chuong Thien Provinces, is terminated (En: 198 KIA, 109 Returnees, 35 IW, 2 CSW; Frd: 5 KIA, 23 WIA).
    - US and RVN negotiators dismiss as "propaganda" the VC's new offer of a Vietnam cease fire which is tied to a pledge from the US to remove all US and allied troops by 30 Jun 71. Also tied to the proposal is an offer to begin immediate talks on the release of American PWs.
  - 19 -- Operation ELK CANYON II, initiated 12 Jul in Quang Tin Province, terminates (En: 107 KIA, 1 Det, 56 IW, 14 CWS; Frd: 37 KIA, 119 WIA).
    - Two elements of the 10th ARVN Regt supported by US gunships engage an enemy force in a three-hour contact 8 km northwest of Mo Cay, Kien Hoa Province (En: 27 KIA, 5 Det, 21 Returnees, 13 IW, 2 CSW; Frd: 5 WIA).
    - Nine instances of two unidentified gunships engaging VN civilians are reported. Instances occur in Sa Dec, An Giang, Phong Dinh, and Kien Giang Provinces.
  - 21 -- An element of the 33d ARVN Regt and one RF company engages an unknown size enemy force 12 km north of Nam Can, An Xuyen Province (En: 34 KIA, 5 IW; Frd: 4 WIA).
  - 23 -- USN and Australian SEALs accompanied by UDT and one Hoi Chanh discover 7 ton ammunition cache 17 km northeast of Nam Can, An Xuyen Province.
  - 24 -- An element of the 1st ARVN Regt in night ambush positions near FSB O'Reilly, 40 km west of Hue, Thua Thien Province engages an enemy force with organic weapons (En: 26 KIA, 3 IW, 3 CSW, 600 blocks plastic explosive; Frd: 1 KIA, 1 WIA).
    - An element of the 10th ARVN Regt on an operation engages an unknown size enemy force 10 km southwest of Thanh Phu, Kien Hoa Province (En: 22 KIA, 17 Det, 2 IW; Frd: 1 WIA).
  - 26 -- A CIDG border patrol on a search mission engages an estimated enemy company with organic weapons 32 km sou' west of Quang Ngai City (En: 32 KIA, 13 IW, 46 packs; Frd: 1 WIA).
  - 28 -- An element of the 101st Abn Div (Abn1) with TACAIR support engages an enemy force 30 km southwest of Phu Loc, Thua Thien Province (En: 29 KIA; Frd: None).
  - 30 -- GEN Creighton W. Abrams enters the hospital at the Australian Logistics Support Group Base, Vung Tau after a dizzy spell caused by heat while he was attending ceremonies at Vung Tau.

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- Operation QUYET THANG 45B, initiated 1 Jul in Quang Ngai Province, is terminated (En: 267 KIA, 79 Det, 3 Returnees, 198 IW, 19 CSW; Frd: 31 KIA, 85 WIA).
  - Operation QUYET THANG 54B, initiated 1 Jul in Quang Tin Province, is terminated (En: 221 KIA, 20 Det, 9 Returnees, 150 IW, 6 CSW; Frd: 17 KIA, 49 WIA).
  - Operation QUYET THANG 63B, initiated 1 Jul in Quang Tin and Quang Ngai Provinces, is terminated (En: 334 KIA, 3 Det, 93 IW, 15 CSW; Frd: 24 KIA, 155 WIA).
  - Operation LAMSON 361, initiated 1 Jul in Thua Thien Province, is terminated (En: 895 KIA, 9 Det, 1 Returnee, 226 IW, 5 CSW; Frd: 103 KIA, 175 WIA).
  - Operation LAMSON 362, initiated 1 Jul in Quang Tri Province, is terminated (En: 113 KIA, 1 Returnee, 28 IW, 7 CSW; Frd: 42 KIA, 68 WIA).
  - Operation LAMSON 363, initiated 1 Jul in Thua Thien Province, is terminated (En: 556 KIA, 2 Det, 109 IW, 29 CSW; Frd: 32 KIA, 65 WIA).
  - At FSB Washington, 5 km northwest of Phu My, Binh Dinh Province, an unknown size force from 1 Co, 400 Sapper Bn, NVA attacks the FSB. Hawk Team from the 173d Abn Bde recon the area and engages the force with organic weapons and gunship support (En: 23 KIA, 2 Det, 12 IW, 4 CSW; Frd: 2 WIA).
  - US military strength in RVN is 390,012.

#### October

- 1 -- COL John W. Betzold, USA, assumes duties of MACV Chaplain replacing COL William R. Fitzgerald, USA.
- 3 -- An estimated 15,000 to 20,000 "Win the War" marchers parade in Washington down Pennsylvania Avenue led by Rev Carl McIntire.
  - President Thieu signs a bill authorizing a partial revaluation of the VN piaster rate. Piasters will be converted at the rate of \$VN 275 to \$1.00 US and \$VN 320 for \$1.00 "green." The official rate will remain at \$VN118 to \$1.00.
  - ADM John S. McCain, Jr., USN, CINCPAC, holds top-level negotiations with Cambodian military officials.
  - GEN Creighton W. Abrams, USA, is released from 3d Field Hospital after four-day stay.
  - An element of the 1st Australian SAS Sqdn discovers a 5-ton munitions cache in a 600 meter long tunnel 21 km southeast of Long Thanh, Bien Hoa Province.
- 5 -- RVNAF officials in Hue announce NVA forces which have been attacking FSB O'Reilly are withdrawing from the area as the winter monsoons begin.

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- 6 -- An element of the 198th Bde, 23d Div discovers a 15-ton rice cache 10 km northwest of Quang Ngai City.
  - 7 -- COMUSMACV announces C-Day--the day for conversion to Series 692 Military Payment Certificates. This is the first conversion since 11 Aug 69.
    - President Nixon offers new five point peace plan for Indochina in an address to the nation.
  - 8 -- An element of the 1st Bde, 5th Inf Div (Mech) engages with helo gunships an unknown size enemy force 9 km southwest of Khe Sanh, Quang Tri Province (En: 26 KBA; Frd: None).
  - 9 -- The Government of Cambodia is proclaimed a Republic to become effective 1 Nov after an unanimous vote for such action by the National Assembly and Senate.
  - 10 -- BG William W. Watkin, Jr., USA, assumes duties of MACV Deputy Chief of Staff for Economic Affairs, a newly created position.
  - 11 -- SECDEF Melvin R. Laird discloses that the number of US Forces in RVN has dropped below the 384,000 man ceiling set by President Nixon for 15 Oct.
  - 12 -- President Nixon announces an accelerated rate of withdrawal of US Forces from RVN. The authorized ceiling will be reduced by 40,000 men through the Christmas season.
  - 15 -- Operation CUU LONG/21/18, initiated 18 Sep in An Xuyen Province, is terminated (En: 291 KIA, 19 Det, 42 IW, 6 CSW; Frd: 21 KIA, 37 WIA).
  - 19 -- The 70th Rgr Border Defense Bn searching 36 km southwest of Duc Pho, Quang Ngai Province, engages an enemy force with organic weapons (En: 20 KIA, 4 IW; Frd: None.)
  - 20 -- The ATSB located 20 km southwest of Song Ong Doc in An Xuyen Province receives an unknown number of mixed 82mm mortar, 57 RR, and 75 RR fire. The ATSB is destroyed (En: unknown; Frd: 1 USN KIA, 7 VN civilians KIA, 55 USN WIA, 15 VNN WIA, 18 VN civilians WIA).
  - 23 -- An enemy force shells and attacks an element of the 47th ARVN Regt south of Pleiku City, Pleiku Province (En: 32 KIA, 7 IW, 1 CSW; Frd: 3 KIA, 8 WIA).
  - 25 -- Operation HIEP DONG 3, initiated 19 Oct in Quang Tin Province, is terminated (En: 360 KIA, 59 Det, 84 Returnees, 102 IW, 2 CSW; Frd: 17 KIA, 49 WIA).
  - 26 -- ADM John S. McCain, CINCPAC, announces the US is reducing its 7th Fleet attack carrier force to its peacetime level of three ships.
  - 28 -- An element of the 1st Cav Div (Ambl) finds a cache 13 km northwest of Dong Bo, Long Khanh Province. The cache contains 50 IW, 5 CSW, 2 mine detectors, and miscellaneous weapons parts and munitions.
    - Operation DOL POONG (cbt) initiated 8 Oct in Phu Yen Province is terminated (En: 63 KIA, 115 Det, 34 IW, 2 CSW; Frd: 18 WIA).

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- COMUSMACV approves a new leave policy granting 14 days of leave during a normal tour. An individual may also spend it in the US.
- 29 -- An element of the 1st Cav Div (Ambl), searching the area of a cache found 28 Oct northwest of Dong Bo, finds an estimated 5 1/2-ton cache. The cache contains 309 82mm mortar rounds, 108 120mm mortar rounds, 21,600 rounds of 7.62 ammunition and 20,635 .51 cal rounds.
- 31 -- At Danang Harbor, Quang Nam Province, the German Hospital Ship "Helgoland" goes aground on a sand bar. Tugs are unable to free the ship.
- Heavy rains continue to drench northern RVN, causing the worst flooding in six years. Military operations are at a virtual standstill from the DMZ to Danang and southward to Quang Ngai City.
- US military strength in RVN is 371,553.

November

- 1 -- In Danang Harbor, Quang Nam Province, the German Hospital Ship "Helgoland" is freed of a sand bar and returns to port.
- Operation CUU LONG 7/03 initiated 1 Jul in Dinh Tuong Province is terminated (En: 1,228 KIA, 285 Det; Frd: 149 KIA, 831 WIA).
- 2 -- In Saigon, Gia Dinh Province, four rounds of 122mm rocket fire impact in the city (En: unknown; Frd: 6 VN civ KIA, 15 VN civ WIA, 5 houses destroyed).
- 3 -- The Honorable Robert C. Seamans, Jr., Secretary of the Air Force, visits RVN to assess current conditions.
- 4 -- The water level in MR I returns to normal. Relief efforts to return people to their homes continues. Cumulative totals: 229 VN deaths, 11 ROK deaths, 8 US deaths, 14,882 VN evacuees not returned home, 13,504 houses destroyed, 826 aerial tonnage flown.
- COL Lewis D. Overstreet, USA, assumes duties of USA Headquarters Area Command replacing COL Robert M. Young, USA.
- 9 -- The Honorable John A. Volpe, Secretary of Transportation, visits RVN for a series of briefings.
- Elements of the 47th ARVN Regt operating 28km southeast of Plei Me, Pleiku Province, engage an enemy platoon with organic weapons and artillery in support (En: 20 KIA, 4 IW, 3 CSW; Frd: 2 ARVN WIA).
- 10 -- Operation NGUYEN HUE 41/1 initiated 1 Jan is terminated in Binh Dinh Province (En: 423 KIA, 56 Det, 169 IW, 16 CSW; Frd: 104 KIA, 311 WIA, 7 MIA, 41 IW, 1 CSW).

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- 11 -- Elements of the 9th ROK Division operating 14 km northwest of Tuy Hoa, Phu Yen Province, ambush with organic weapons and artillery an unknown size enemy force (En: 42 KIA, 11 IW; Frd: 4 ROK WIA).
  - 12 -- A Seal Team accompanied by Kit Carson Scouts operating 9 km southeast of Thanh Phu in Kien Hoa Province uncovers a 6.8 ton cache containing mixed types of ammunition (En: 2 KIA; Frd: 3 KIA, 4 WIA).
  - 14 -- In Phu Yen Province, 8 km west of Tuy Hoa, an element of the 28th ROK Inf Regt detains 47 suspected members of a VC production unit for interrogation (En: 47 Det; Frd: None).
  - 17 -- Bien Hoa air base in Bien Hoa Province receives 28 rounds of 107mm rocket fire. Artillery fires in return on the suspected launch site (En: unknown; Frd: 3 US KIA, 19 US WIA, 1 VN civilian KIA, 11 VN civilians WIA; 5 buildings, 2 vehicles, 2 helicopters damaged).
    - Elements of the 17th Combat Aviation Group while on a vertical replenishment mission 30 km northwest of Plei Djereng, Kontum Province, observe several bunkers. Tactical air strikes are called into the area (En: 18 KBA, estimated 17 structures and 15 bunkers destroyed; Frd: None).
  - 18 -- During a VN Information Service outdoor movie 9 km northeast of Bien Hoa, Bien Hoa Province, an improperly secured grenade drops from the belt of a member of the Armed Propaganda Team (En: N/A; Frd: 11 VN killed, 36 VN wounded).
  - 19 -- While on an extraction mission 7 km southeast of An Hoa, Quang Nam Province, a CH-46D assigned to 1st MAW crashes in bad weather. There are no survivors. Result: 15 US killed, 1 aircraft destroyed.
    - Fourteen km northwest of Pleiku City, Pleiku Province, an estimated enemy battalion attacks An Hamlet with mortar, rocket, and small arms fire. Elements of the 837th and 829th RF Co return fire with organic weapons and gunship and artillery support (En: 34 KIA, 11 IW, 4 CSW, 15 B-40 rockets and other ammunition captured; Frd: 6 RF WIA).
  - 21 -- In Qui Nhon City, Binh Dinh Province, a fire starts in a residential section of the city. The fire is not contained by local firemen for 4 1/2 hours. Approximately one thousand VN civilian homes are destroyed leaving five thousand civilians homeless. The fire is not enemy initiated.
    - US warplanes, retaliating for attacks on unarmed reconnaissance aircraft, bomb deep inside NVN in the heaviest raids on the north in 7 months. SECDEF Melvin R. Laird says the planes were restricted to south of the 19th parallel, 150 miles north of the demilitarized zone. The close to 200 warplanes in the raid are intended to signal to Hanoi that the US will continue to fly reconnaissance over NVN.
    - Offshore of Kien Hoa Province a NVN trawler inside the 12 mile limit is challenged by MARKET TIME units. When the trawler disregards the challenge it is taken under fire. It returns fire and attempts to ram the USS Endurance. The trawler then attempts to evade toward the beach and apparently self destructs and sinks in shallow water 40 km southwest of Vung Tau. Two crew members are captured when they swim to shore.



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- Operation CUU LONG 21/19 initiated 15 Nov in An Xuyen Province is terminated (En: 335 KIA, 1 Det, 60 Returnees, 54 IW, 8 CSW; Frd: 29 KIA, 94 WIA).
- 23 -- Elements of the 93rd Bdr Rgr Bn operating 22 km northeast of Ha Tien, Kien Giang Province, ambush an unknown size enemy force aboard 30 sampans heading south (En: 29 KIA, 1 CSW, 25 IW; Frd: 3 ARVN KIA, 2 ARVN WIA).
- SECDEF Melvin R. Laird discloses a small force of US soldiers landed 20 miles west of Hanoi in an attempt to rescue US prisoners of war while fighter planes bombed enemy gun and missile sites on the 21st. The task force of volunteers landed in helicopters at a prisoner of war camp which was found to be abandoned.
- 24 -- Elements of the 35th, 241st and 388th RF Co's operating 10 km northeast of Vi Thanh, Chuong Thien Province, engage an unknown size enemy force (En: 22 KIA, 7 mines and 2 grenades captured; Frd: None).
- In Phong Dinh Province an enemy unit attacks the Sua Dua RF outpost 7 km northeast of Thuan Nhon (En: unknown; Frd: 19 KIA, 1 WIA, 18 IW, 1 radio lost).
- 26 -- Operation CUU LONG 31/19 initiated 13 Oct in Chuong Thien Province terminates (En: 107 KIA, 7 Det, 21 IW; Frd: 3 KIA, 38 WIA).
- In Nha Trang Harbor an estimated 200 pound high explosive charge detonates alongside the Phillipine coastal tanker "Islander." The explosion produces a hole approximately 15 feet long by 13 feet wide in the port side of the ship at the water line. Two men working on the main deck are wounded.
- Elements of the 709th RF Co and 783d RF Co supported by Navy gunships 20 km southeast of Nhon Trach, Bien Hoa Province, engage an unknown size enemy force with organic weapons (En: 31 KIA, 2 Det, 9 pounds of documents, 20 pounds of clothing, 5 IW; Frd: 1 RF KIA).
- 27 -- On a helicopter insertion 16 km west of Phuoc Long, Bac Lieu Province, three RF Co's engage an estimated enemy company (En: 20 KIA, 2 CSW, 4 IW; Frd: 3 KIA, 9 WIA).
- One C-123 assigned to the 19th TAS, 315th Wing, USAF, is missing on a flight from Nha Trang to Tan Son Nhut air base. The aircraft has 5 crewmen and 73 passengers (50% ARVN and 50% VNAF, with dependents).
- 29 -- In Binh Thuan Province, 20 km southwest of Song Mao, the 710th RF Co engages an estimated enemy battalion with organic weapons (En: 23 KIA, 3 Det, 8 IW, 2 CSW, 1 radio captured; Frd: 1 RF KIA, 5 RF WIA).
- Elements of the 44th ARVN Inf Regt engage an estimated enemy company with organic weapons 24 km southwest of Song Mao, Binh Thuan Province (En: 21 KIA, 1 IW, 5 CSW; Frd: 1 ARVN KIA, 2 ARVN WIA).
- A USAF C-123 aircraft is reported overdue and missing in central RVN. The routine passenger and cargo flight was carrying five US crewmen, 27 US passengers, and 12 VN passengers.

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30 -- US military strength in RVN is 351,412

December

- 1 -- In Kien Giang Province an enemy unit attacks Kien An District Town with 50 rounds of 60/82mm mortars (En: Unknown; Frd: 8 KIA, 23 WIA).
  - Coastal Squadron 1 and its only remaining subordinate command, Coastal Div 13, are disestablished in a ceremony at Cat Lo, thus ending USN fast patrol boat operations in RVN.
- 2 -- The VC clandestine radio announces the enemy will observe a unilateral ceasefire of three days at Christmas and New Years Day and four days at TET Lunar New Year.
  - In Phu Yen Province, 16 km south of Song Cou, the district headquarters receives a mortar attack followed by a ground attack from an unknown size enemy force. The enemy penetrates the compound at three locations. Friendly units return the fire with organic weapons and ARVN artillery support. The 203d RF Co and the 61st PF Plt are attacked at the same time (En: 3 KIA; Frd: 20 KIA, 51 WIA, 2 105 howitzers receive heavy damage).
- 3 -- Deputy Assistant Defense Secretary Jerry W. Friedheim announces US pilots may attack enemy radar and missile sites in NVN if the enemy has locked on them with antiaircraft missile guidance radar.
- 4 -- A PRU from the RSSZ on a search operation engages an unknown size enemy force 16 km northeast of Saigon in Bien Hoa Province. USN helo gunships support the engagement (En: 36 KIA; Frd: 2 PRU KIA, 3 PRU WIA).
  - BG Michael J. L. Greene assumes command of the USA HQ Area Command from COL Lewis D. Overstreet.
  - After a frustrating six-day search hampered by low-hanging monsoon clouds, rescuers find two survivors out of 44 persons at the crash site of a USAF C-123 transport missing since 29 Nov.
- 5 -- Elements of the 40th ARVN Inf Regt on a search operation 7 km north of Bong Son, Binh Dinh Province, engage an unknown size enemy force with organic weapons and ARVN artillery support (En: 21 KIA, 5 IW; Frd: None).
- 6 -- Ten km west of An Khe, Binh Dinh Province, elements of the NFF ambush an unknown size enemy force with organic weapons and claymore mines. Elements of the 1710 Cav Sqdn (US) react and sweep the battle area (En: 36 KIA, 17 IW; Frd: None).
- 7 -- The C-123 aircraft missing since 27 Nov is found in mountainous terrain of central RVN. A para-rescue team inserted into the site finds no survivors. The aircraft was carrying six US military personnel and 73 VN military personnel and their dependents.
  - In Qui Nhon, Binh Dinh Province, a student is accidentally shot when a group of VN youths climb aboard an army truck. One of the two soldiers riding the truck fires a warning shot when one youth attempts to steal a fire extinguisher. The bullet strikes the uninvolved student standing nearby.

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- 8 -- Bands of rock-throwing demonstrators roam Qui Nhon in continuing anti-American rioting triggered by the fatal shooting of a VN high school boy. The city is placed off limits to all Americans.
- 9 -- While in their NDP the 110th RF Co and a CUPP Team Co receive a coordinated mortar and ground attack 15 km southwest of Hoi An in Quang Nam Province. The unknown size enemy force penetrates the NDP but is repelled by organic weapons and artillery illumination (En: 23 KIA, 7 IW, 1 CSW, 15 B-40 rounds, 25 hand grenades, 100 flares captured; Frd: 2 KIA, 25 WIA).
- 10 -- President Nixon declares he will order bombing of military sites and supply lines in NVN if he concludes a military buildup along the border threatens US forces in RVN. He also rejects the idea of an extended unilateral US ceasefire.
- In Paris, US and RVN delegates announce their governments will release all NVN prisoners immediately if US and other allied prisoners are freed.
- 11 -- SECDEF Melvin R. Laird announces the US will remain in VN until US PWs are freed.
- The RVN government urges Hanoi to release all PWs held in NVN, Laos, and Cambodia as a holiday gesture. In return RVN agrees to release PWs it is holding.
- 12 -- In Saigon VN police and students clash during renewed anti-American protests over the fatal shooting of a Qui Nhon schoolboy. Student leaders announce a campaign to burn US vehicles in Saigon. A USAID vehicle parked near the scene of a demonstration is burned.
- An unknown size enemy force is spotted by aircraft from 7/17th Air Cav (US) 18 km southwest of Tuy Hoa in Phu Yen Province. Elements of the 9th ROK Div fire artillery into the contact area and then search it (En: 39 KIA; Frd: None).
- 14 -- In Saigon the US Command announces firebombs have been hurled at three American vehicles since the 12th.
- In Kien Giang Province enemy forces shell and attack elements of the 33d ARVN Inf Regt 31 km southwest of Kien An (En: 54 KIA, 9 IW; Frd: 12 KIA, 69 WIA).
- Twelve km southwest of Quang Ngai City, Quang Ngai Province, a Quang Ngai Recon Plt locates an enemy camp and engages the unknown size force with organic weapons (En: 20 KIA, 1 Det, 9 IW; Frd: 2 WIA).
- 17 -- Thirty-two km southeast of Tra Vinh in Vinh Binh Province an RF Co acting on information from a source raids a PW camp (En: 15 KIA, 9 Det, 3 IW; Frd: 51 VN PW).
- 18 -- GVN announces US and RVN forces will observe truces throughout RVN from 1800, 24 Dec to 1800, 25 Dec 70, and from 1800, 31 Dec to 1800, 1 Jan 71.
- 20 -- MG Robert P. Young assumes command of the Construction Directorate from BG Robert M. Tarbox.

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- 23 -- Operation CUU LONG CHUONG THIEN DK-3 initiated 3 Dec terminates in Chuong Thien Province (En: 95 KIA, 4 IW; Frd: 1 KIA, 8 WIA).
- 24 -- In Bac Lieu Province, 2 km southeast of Phuoc Long, the Phuoc Hal PF outpost is attacked by an unknown size enemy force (En: 20 KIA, 4 Det, 2 IW; Frd: 3 PF WIA).
  - LTG Donn J. Robertson assumes command of III MAF from LTG K. B. McCutcheon.
- 25 -- The Pentagon confirms that an experimental Navy unit has been established in VN for the purposes of evaluating a surveillance and detection system using porpoises.
- 26 -- The White House announces a rapid phase-out of all herbicide operations in RVN and hopes to complete the job by spring. During the phase-out period the use of herbicides is restricted to the perimeter of fire bases, US installations, or remote unpopulated areas.
- 27 -- The 95th, 98th, 100th, 164th, 170th PF Plts of the Gio Linh District operating 7 km southeast of Gio Linh, Quang Tri Province, engage an enemy company with organic weapons and helo gunship support (En: 22 KIA, 1 Det, 10 IW, 3 CSW; Frd: 3 PF WIA).
- 30 -- The Fifth Increment of troop redeployment is completed with the departure of the USN's River Assault Squadron 15 from RVN. Major elements in this increment were the 25th Infantry Division, less one brigade, and the 4th Infantry Division. These redeployments reduce in-country strength authorizations to 344,000, and, as previously announced by President Nixon, strength will be further reduced to 284,000 by 1 May 1971.
  - The USN turns over the last of its small coastal and river combat craft to the VNN. With the combat craft turnover the USN's coastal patrol force and its unique Brown Water Navy officially ends.
- 31 -- Elements of the 7th RAR Bn while in ambush location engage an unknown size enemy force with organic weapons 4 km southeast of Xuyen Moc, Phuoc Tuy Province (En: 21 KIA, 12 IW, 2 RPG-2, 12 B-40 rounds, 2 B-40 rocket launchers, 1 PRC-25 radio; Frd: None).
  - Operation LAMSON 368 initiated 1 Oct terminates in Quang Tri/Thua Thien Province (En: 196 KIA, 196 IW, 13 CSW; Frd: 6 KIA, 32 WIA).
  - Operation LAMSON 370 initiated 1 Oct terminates in Thua Thien Province (En: 132 KIA, 77 IW, 5 CSW; Frd: 14 KIA, 25 WIA).
  - Operation LAMSON 371 initiated 1 Oct terminates in Thua Thien Province (En: 53 KIA, 1 Det, 20 IW, 6 CSW; Frd: 2 KIA, 8 WIA).
  - Operation QUYET THANG 45C initiated 1 Oct terminates in Quang Ngai Province (En: 247 KIA, 165 Det, 74 IW, 3 CSW; Frd: 11 KIA, 42 WIA).
  - Operation QUYET THANG 54C initiated 1 Oct terminates in Quang Tin Province (En: 284 KIA, 76 Det, 60 IW, 10 CSW; Frd: 66 WIA).
  - Operation QUYET THANG 63C initiated 1 Oct terminates in Quang Ngai Province (En: 542 KIA, 115 Det, 98 IW, 19 CSW; Frd: 28 KIA, 100 WIA).

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- In Hau Nghia Province an enemy force attacks Bau Dieu Hamlet 5 km southwest of Trung Lap (En: unknown; Frd: 20 VN civilians KIA, 1 VN civilian missing).
- Operation NGUYEN HUE initiated 4 Jul terminates in Binh Dinh Province (En: 208 KIA, 38 Det, 43 IW, 2 CSW; Frd: 6 KIA, 26 WIA).
- Operation CUU LONG 16/11 initiated 2 Dec terminates in Vinh Binh Province (En: 87 KIA, 9 Det, 24 IW, 8 CSW; Frd: 5 KIA, 71 WIA).
- Operation CUU LONG 7/4 initiated 1 Nov terminates in Dinh Tuong/Kien Hoa Province (En: 305 KIA, 147 Det, 23 IW, 1 CSW; Frd: 36 KIA, 289 WIA).
- US military strength in RVN is 335,794.

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## GLOSSARY OF ACRONYMS

AA	Antiaircraft
AAA	Air Assault Ambush Flight Operation
AACT	Aerial Aviation Control Team
AAE	Army Aviation Element
A&AFES	Army and Air Force Exchange Service
AATTV	Australian Army Training Team, Vietnam
AB	Air Base
ABC	American Broadcasting Company
ABCCC	Airborne Battlefield Command and Control Center
ABF	Attack-by-Fire
Abn	Airborne
ACAT	Armored Cavalry Assault Troop
ACAV	Armored Cavalry Assault Vehicle
ACI	Airborne Communication Intercept
ACR	Armored Cavalry Regiment
ACS	Armored Cavalry Squadron
ACofS	Assistant Chief of Staff
ACTIV	Army Concept Team in Vietnam
ACTOV	Accelerated Turnover to Vietnamese
ACTOVCARD	Accelerated Turnover to Vietnamese Automated Records
ACTOVCOMM	Accelerated Turnover to Vietnamese Communications
ACTOVINT	Accelerated Turnover to Vietnamese Intelligence
ACTOVLOG	Accelerated Turnover to Vietnamese Logistics
ACTOVMED/DENT	Accelerated Turnover to Vietnamese Medical/Dental
ACTOVOPS	Accelerated Turnover to Vietnamese Operations
ACTOVPLAN	Accelerated Turnover to Vietnamese Plan
ACTOVPOW	Accelerated Turnover to Vietnamese Prisoners of War
ACTOVRAD	Accelerated Turnover to Vietnamese Radar
AD	Air Division; Air Defense
ADA	Air Defense Artillery
ADB	Agriculture Development Bank
ADP	Automatic Data Processing
ADPE	Automatic Data Processing Equipment
A&DSL	Administrative and Direct Support Logistics
AF	Air Force
AFAT	Air Force Advisory Team
AFB	Air Force Base
AFGP	Air Force Advisory Group
AFLS	Armed Forces Language School
AFRTS	American Forces Radio and Television Service
AFV	Australian Force Vietnam
AFVN	American Forces Vietnam Network
AG	Adjutant General
AHB	Assault Helicopter Battalion
AHC	Assault Helicopter Company

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AID	Agency for International Development
AIG	Address Indicating Group
AIK	Assistance-in-Kind
AK	Automatic Rifle (Soviet or CHICOM)
AKL	Light Cargo Ship
ALC	Area Logistics Command
ALO	Air Liaison Officer
AM	Air Medal
Ambi	Airmobile
AMEMB	American Embassy
AMMI	Navy Pontoon Barge
Ammo	Ammunition
ANGLICO	Air Naval Gunfire Liaison Company
ANZAC	Australian and New Zealand Army Corps
AO	Area of Operations
AOB	Air Order of Battle
AOC	Army Operations Center
AP	Antipersonnel; Associated Press
APB	Barrack Ship (Self-Propelled)
APC	Armored Personnel Carrier
APD	Airborne Personnel Detector
APL	Barracks Craft
APO	Army Post Office
APOG	Aerial Port Group
APS	Aerial Port Squadron
ARA	Aerial Rocket Artillery
ARC	American Red Cross
ARCOM	Army Commendation Medal
ARDF	Airborne Radio Direction Finding
ARL	Landing Craft Repair Ship
Armd	Armored
ARP	Aero-Rifle Platoon
ARPA	Advanced Research Project Agency
ARRG	Aerospace Rescue and Recovery Group
ARRS	Aerospace Rescue and Recovery Service
Arty	Artillery
ARVN	Army of the Republic of Vietnam
ASC	Automatic Switching Center
ASD (Comptroller)	Assistant Secretary of Defense (Comptroller)
ASD (I&L)	Assistant Secretary of Defense for Installations and Logistics
ASD (PA)	Assistant Secretary of Defense (Public Affairs)
ASHC	Assault Support Helicopter Company
ASP	Ammunition Supply Points
ASPB	Armored Support Patrol Boat
ASPR	Armed Services Procurement Regulations
AT	Antitank
ATC	Air Training Center; Armored Troop Carrier
ATF	Australian Task Force
Atk	Attack
AUTODIN	Automatic Digital Network

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AUTOSEVCOM	Automatic Secure Voice Communications
AUTOVON	Automatic Voice Network
AVLR	Armored Vehicle Launch Bridge
Avn	Aviation
AVNK	Aviation Nationale Khmer (Cambodian Air Force)
AW	Automatic Weapon(s)
AWC	Aerial Weapons Company
AWOL	Absent Without Leave
B	Bomber
BA	Base Area (VC/NVA)
BARCAP	Barrier Combat Air Patrol
BCCR	Border Control Center Regions
BDA	Bomb Damage Assessment
Bde	Brigade
EEQ	Bachelor Enlisted Men's Quarters
BG	Brigadier General
Black Pony	OV-10 Twin Engine Turboprop Counter-Insurgency Aircraft
Bn	Battalion
BNDD	Bureau of Narcotics and Dangerous Drugs
BOQ	Bachelor Officer Quarters
BR	BARREL ROLL
BSM	Bronze Star Medal
Btry	Battery
C	Confidential
CAB	Combat Aviation Battalion
CABOTS	Currency and Black Market Control System
CAG	Civic Action Group; Combat Aviation Group
Cal	Caliber
CAMB	Cambodia
CAP	Country Assistance Program
CAPT	Captain (Navy O-6)
CAS	Controlled American Source
Cav	Cavalry
CBS	Columbia Broadcasting System
Cbt	Combat
CBU	Cluster Bomb Unit
C&C	Command and Control
CC 1	Basic Aidman Course (RVNAF)
CCP	Combined Campaign Plan
CCRSFF	Commander Central Region SEATO Field Forces
C&CSC	Command and Command Staff College (RVN)
CD	Combat Development
CDEC	Combined Document Exploitation Center
Cdr	Commander
C-E	Communications-Electronics
CEIMP	Communications-Electronics Improvement and Modernization Plan
CEM	Captured Enemy Material
CEMIS	Communications-Electronics Management Information System
CENCOM	Central Highways and Waterways Committee

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CG	Commanding General; Coastal Group
CHAAG	Chief, Army Advisory Group
CHAFAG	Chief, Air Force Advisory Group
CHECO	Contemporary History Evaluations of Combat Operations
CHICOM	Chinese Communist
CHINAT	Chinese Nationalist
CHJUSMAGTHAI	Chief, Joint United States Military Advisory Group, Thailand
CHNAG	Chief, Naval Advisory Group
CIA	Central Intelligence Agency
CIC	Combined Interrogation Center
CICV	Combined Intelligence Center, Vietnam
CID	Criminal Investigation Division
CIDG	Civilian Irregular Defense Group
CIDIV	Command Information Division
CINCPAC	Commander in Chief, Pacific
CINCPACAF	Commander in Chief, Pacific Air Forces
CINCPACFLT	Commander in Chief, Pacific Fleet
CINCUSAREUR	Commander in Chief, US Army, Europe
CINCUSARPAC	Commander in Chief, United States Army, Pacific
CINFO	Chief of Information
CIO	Central Intelligence Organization
CIP	Commercial Imports Program
Civ	Civilian
CJCS	Chairman of the Joint Chiefs of Staff
CJGS	Chief of the Joint General Staff (RVNAF)
CL	Commo-Liaison
CLC	Central Logistics Command
CLIP	Country Logistics Improvement Plan
CLOP	Country Logistics Offensive Plan
Clr	Clearing
CMAC	Capital Military Assistance Command
CMAG	Cambodian Military Assistance Group
CMAT	Capital Military Assistance Team
CMD	Capital Military District
CMEC	Combined Materiel Exploitation Center
CMIC	Combined Military Interrogation Center
CMR	Capital Military Region
CNO	Chief of Naval Operations
Co(s)	Company (ies)
CO	Commanding Officer
COC	Combat Operation Center
CODEL	Congressional Delegation
COFAT	Former French Factory Building used as a Post Exchange ( <u>Compagnie de Fabrication du Tabac</u> )
COFRAM	Controlled Fragmentation Munitions
COL	Colonel
COMAFV	Commander, Australian Force, Vietnam
COMASE	Commander, Air Support Element
COMDESRON	Commander Destroyer Squadron
COMINT	Communications Intelligence

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COMNAVFORV	Commander, Naval Forces, Vietnam
COMSAT	Communications Satellite Corporation
COMSEC	Communications Security
COMUSAMAAGSUPCOM	Commander, US Army Military Assistance Advisory Group Support Command
COMUSMACTHAI	Commander, United States Military Assistance Command, Thailand
COMUSMACV	Commander, United States Military Assistance, Command, Vietnam
COMUSSEASIA	Commander Designate of United States Forces Southeast Asia
CONEX	Container Express
CONUS	Continental United States
CORDS	Civil Operations and Rural Development Support
CofS	Chief of Staff
COSVN	Central Office for South Vietnam
CP	Command Post
CPDC	Central Pacification and Development Council
CPT	Captain (Army, Air Force 0-3)
Cptrd	Captured
CPWC	Central Prisoner of War Camp
CRIMP	Consolidated RVNAF Improvement and Modernization Plan
CS	A Tear Gas-Type of Riot Control Agent
CSAF	Chief of Staff, Air Force
CSAM	Chief of Staff Action Memorandum
CSAS	Common Service Airlift System
CSB	Coastal Surveillance Boat
CSC	Coastal Surveillance Center; Computer System Corporation
CSFF	Commander Designate of the SEATO Field Force
CSW	Crew-served Weapon
CTC	Central Training Command
CTF	Commander Task Force
CTG	Commander Task Group
CTS	China Travel Service
CTU	Commander Task Unit
CTZ	Corps Tactical Zone
CVA	Attack Aircraft Carrier
CUPP	Combined Unit Pacification Program
CWCP	Civilian War Casualty Program
CY	Calendar Year
DA	Department of the Army
DAO	Defense Attache Office
DART	Deployable Automatic Relay Terminal
DASG	Direct Air Support Center
db	Decibels
DCA	Defense Communications Agency
DCA/SAM	Defense Communication Agency/Southeast Asia Mainland
DCG	Deputy Commanding General
DCS	Defense Communications System
DCS/LOG	Deputy Chief of Staff for Logistics

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DCSPER	Deputy Chief of Staff Personnel (RVNAF Joint General Staff)
DD	Destroyer
DDG	Guided Missile Destroyer
DE	Destroyer Escort
DEPCG	Deputy Commanding General
DEPCOMUSMACV	Deputy Commander, United States Military Command, Vietnam
DEPCOMUSMACV for Air	Deputy Commander, United States Military Assistance Command, Vietnam, for Air
DEPCOMUSMACV for CORDS	Deputy Commander, United States Military Assistance Command, Vietnam, for Civil Operations and Rural Development Support
DEPSECDEF	Deputy Secretary of Defense
DER	Radar Picket Escort Ship
Det	Destroyed; detained
DFC	Distinguished Flying Cross
DGBFA	Director General for Budget and Foreign Aid
DGFA	Director General of Finance and Audit
DGNP	Director General, National Police
DIA	Director of Intelligence
DINFOS	Defense Information School
DIOCC	District Intelligence and Operations Control Center
Div	Division
DMAC	Delta Military Assistance Command
DMZ	Demilitarized Zone
DOD	Department of Defense
DOI	Date of Identification
\$VN	Vietnamese Piaster
DRV (GNVN)	Democratic Republic of Vietnam or Government of North Vietnam
DS	Direct Support
DSA	Deputy/District Senior Advisor; Defense Supply Agency
DSC	Distinguished Service Cross
DSCS	Defense Satellite Communications System
DSPG	Dependent Shelter Program Group
DSTE	Digital Subscriber Terminal Equipments
DTA	Division Tactical Area
DTC	Division Training Center
DTE	Dial Telephone Exchange
DTP	Delta Transportation Plan
Duffle Bag	Electronic Sensing Devices of Various Types
EAC	Emergency Actions Center
EAM	Electronic Accounting Machine
EC	Engineer Corps
ECL	English Comprehension Level
EEI	Essential Elements of Information
ELAT	English Language Aptitude Test
ELT	English Language Training
EM	Enlisted Men
Embtel	Embassy Telegram

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En	Enemy
Engr	Engineer
EOD	Explosive Ordnance Disposal
ERT	Equipment Retrograde Team
ESR	Equipment Status Report
FA	Field Artillery
FAC	Forward Air Controller/Control
FAE	Field Advisory Effort
FAG	Forward Air Guide
FAMREP	Force and Material Report
FAN	<u>Forces Armees Neutralist (Laos)</u>
FANK	<u>Forces Armees Nationales Khmer (Cambodian Army)</u>
FAR	<u>Forces Armees Royales (Laos)</u>
FARK	<u>Forces Armees Royales Khmer (Cambodia)</u>
FDC	Fire Direction Center
FFORCEV	Field Force, Vietnam
FLC	Force Logistics Command
FLSG-B	Force Logistic Support Group-Bravo
FMFPAC	Fleet Marine Force, Pacific
FO	Forward Observer
FONECON	Telephone Conversation
FOUO	For Official Use Only
FPO	Fleet Post Office
Frd/Frdly	Friendly
FSB	Fire Support Base
FSCC	Fire Support Coordination Center
FSI	Force Structure Increase
FSO	Foreign Service Officer
Ftr	Fighter
FTS	Field Training Service
FUNK	United National Front of Kampuchea (Cambodia)
FW	Free World (Forces)
Fwd	Forward
FWF	Free World Forces
FWMAF	Free World Military Assistance Forces
FWMAO	Free World Military Assistance Office
FY	Fiscal Year
Gal	Gallon
GAO	General Accounting Office
GCA	Ground Control Approach
GCI	Ground Controlled Element
GDRS	General Directorate of Rear Services
GEN	General
GIS	Government Information Service
GKR	Government of Khmer Republic
GNZ	Government of New Zealand
GOA	Government of Australia
GOC	Government of Cambodia
GOF	Government of France
GOI	Government of India

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GOK	Government of South Korea
GOT	Gulf of Tonkin
Gp	Group
GPW	Geneva Prisoners of War Convention
GPWD	General Political Warfare Department
GVN	Government of South Vietnam
Gunships	Transport Aircraft equipped with side-firing machineguns and, in some, with cannons
HAC	Headquarters Area Command
HAWS	Heavy Artillery Warning System
HCU	Harbor Clearance Unit
HE	High Explosive
HECP	Harbor Entrance Control Post
Hel	Helicopter
HES	Hamlet Evaluation System
HF	High Frequency
H&I	Harassment and Interdiction Fire
HIMS	Historical Information Management System
HLZ	Helicopter Landing Zone
HQ	Headquarters
Hr	Hour
HSR	Human Sciences Research
HvHel	Heavy Helicopter
IBM	International Business Machine
ICC	International Control Commission
ICP	Intelligence Collection Plan
ICRC	International Committee of the Red Cross
ICS	Integrated Communications System
ICS-SEA	Integrated Communications System, Southeast Asia
ID	Identification
IESS	Interservice Excess Screening System
I F FORCEV	I Field Force, Vietnam
II F FORCEV	II Field Force, Vietnam
IG	Inspector General
I&M	Improvement and Modernization
Ind Wpn(s)	Individual Weapon(s)
Inf	Infantry
IO	Information Office/Officer
I&PR	Information and Public Relations Bloc
IR	Infrared
IRAN	Inspection and Repair as Necessary
IRF	Immediate Reaction Force
IRS	Internal Revenue Service
ISSA	Inter-Service Support Agreement
IW	Individual Weapon
JAGOS	Joint Air Ground Operations System
JCS	Joint Chiefs of Staff
JGS	Joint General Staff (RVNAF)
JMA	Junior Military Academy
JP	Type Fuel

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JPRC	Joint Personnel Recovery Center
JSCM	Joint Service Commendation Medal
JTD	Joint Table of Distribution
JUSMAAG	Joint US Military Assistance and Advisory Group
JUSPAO	Joint US Public Affairs Office
KBA	Killed by Air
KCS	Kit Carson Scout
KEYSTONE	Redeployment Code Name
KIA	Killed in Action
KIT	Key Interteam
Km	Kilometer(s)
KR	<u>Khmer Rouge</u>
kw	Kilowatt
LAFT	Light Attack Fire Team
LAMPS	Light Airborne Multi-Package System
LAW	Light Anti-Tank Weapon
Lbs	Pounds
LCC	Amphibious Command Ship; Land Clearing Company
LCM	Landing Craft Mechanized
LCPL	Landing Craft Personnel, Large
LCU	Landing Craft Utility
LCVP	Landing Craft Vehicle Personnel
LDNN	<u>Lien Doi Nhoui Nhai</u> (Frogman Group VNN)
LF	Local Force
LFT	Light Fire Team
LGB	Laser Guided Bomb
LHFT	Light Helicopter Fire Team
LIB	Light Infantry Brigade
LKA	Amphibious Cargo Ship
LM	Legion of Merit
Lnd	Land
LnO	Liaison Officer
LOC	Line of Communication
LOCC	Logistics Offensive Coordination Committee; Logistical Operations Control Center
LOGAIR	Air Logistics
LOG CMD	Logistical Command
LOG Mgt	Logistics Management
LOH	Light Observation Helicopter
LOI	Letter of Instruction
LP	Listening Post
LPA	Liberation Press Agency
LPF	Lao Patriotic Front
LRC	Logistics Readiness Center
LRRP	Long-Range Reconnaissance Patrol
LS	Lima Site
LSM	Landing Ship, Medium
LSSL	Support Landing Ship, Large
LST	Landing Ship Tank
LT	Lieutenant

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LTC	Lieutenant Colonel
LTG	Lieutenant General
LZ	Landing Zone
MA	Military Assistance
MAAG	Military Assistance Advisory Group
MAC	Military Assistance Command; Military Airlift Command
MACAG	Military Assistance Command, Adjutant General
MACCH	Military Assistance Command, Chaplain
MACCO	Military Assistance Command, Comptroller
MACCORDS	Military Assistance Command, Civil Operations and Rural Development Support
MACDC	Military Assistance Command, Directorate of Construction
MACDMA	Military Assistance Command, Data Management Agency
MACEA	Office of the Deputy Chief of Staff, Economic Affairs
MACIG	Military Assistance Command, Inspector General
MACJI	Military Assistance Command, Assistant Chief of Staff for Personnel
MACJZ	Military Assistance Command, Assistant Chief of Staff for Intelligence
MACJ3	Military Assistance Command, Assistant Chief of Staff for Operations
MACJA	Military Assistance Command, Judge Advocate
MACMA	Military Assistance Command, Military Assistance
MACMD	Military Assistance Command, Surgeon
MACOI	Military Assistance Command, Office of Information
MACPM	Military Assistance Command, Provost Marshall
MACT	Military Assistance Command, Training Directorate
MACV	Military Assistance Command, Vietnam
MAD	Antisubmarine Magnetic Anomaly Detector
MAF	Marine Amphibious Force
MAG	Marine Air Group
MA&IS	Military Assistance and International Security Office, OSD
MALT	Mobile Advisory Logistics Team
MAP	Military Assistance Program
MAPC	Military Affairs Party Committee
MAPEX	Military Assistance Program Excess Material Program
Mar	Marine
Mar Div	Marine Division
Mar Regt	Marine Infantry Regiment
MARS	Military Affiliate Radio System
MASF	Military Assistance Service Funded
MAT	Mobile Advisory Team
MATP	Military Assistance Training Program
MATSB	Mobile Advanced Tactical Support Base
MAW	Marine Aircraft Wing
MBF	Military Banking Facility
MCN	Military Construction, Navy
MEAC	Military Economic Action Committee
Mech	Mechanized
MED	Medical

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MEDCAP	Medical Civic Action Program
MEDEVAC	Medical Evacuation
MEDT	Military Equipment Delivery Team
MF	Main Force
MG	Major General; Machinegun
MHE	Materials Handling Equipment
MIA	Missing In Action
MID	Mine Interdiction Division
Mig	Soviet Aircraft designed by Mikoyan and Gurevich
MILCON	Military Construction
MIMEX	Major Items Map Excess
MINI-NIOTC	Miniature Naval Inshore Operations Training Center
Mk	Mark
MLMS	Motor Launched Mine Sweeper
mm	Millimeter(s)
MM	<u>Messagerie Maritimes (piers)</u>
MMS	Military Medical School
MND	Ministry of National Defense
MNK	<u>Marine Nationale Khmer (Cambodian Navy)</u>
MOB	Military Operational Boundary
MOD	Ministry of Defense
MOI	Method of Instruction; Ministry of Information; Ministry of Interior
MON	Monitor
MOND	Ministry of National Defense
MOOSE	Move out of Saigon Expeditiously
MOP	Measurement of Progress
MOS	Military Operational Specialty
MP	Military Police
MPC	Military Payment Certificate
MPCO	Military Property Construction Office
MPS	Ministry of Public Security (NVN)
MR	Military Region
MRTTH	Military Region Tri Thien Hue
MSC	Minesweeping Coastal; Military Sealift Command
MSF	Mobile Strike Force
MSGT	Master Sergeant
MSM	Minesweeping River (converted LCM-6)
MSO	Minesweeper, Ocean
MSQ	Mobile Search Special (radar for ground-directed bombing)
MSR	Minesweeping Patrol
MTT	Military Training Teams
MTVN	Military Telecommunications Network-Vietnam
NAG	Naval Advisory Group
NATO	North Atlantic Treaty Organization
NAVFORV	Naval Forces, Vietnam
NBC	National Broadcasting Corporation
NCE	Naval Construction Battalion
NCC	National Communications Commission
NCO	Noncommissioned Officer

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NCOIC	Noncommissioned Officer in Charge
NDC	National Defense College
NDP	Night Defense Position
NFI	Not Further Identified
NFL	National Front for the Liberation of South Vietnam; also NFL (NFLSVN)
NFLSVN	National Front for the Liberation of South Vietnam (Also known as NFL or NLF)
NGFS	Naval Gunfire Support
NHLS	<u>Neo Lao Hak Sat</u> Party (Communist)
NILO	Naval Intelligence Liaison Officer
nm	Nautical Mile
NP	National Police
NPFF	National Police Field Force
NSA	National Security Agency; Naval Support Activity
NSAD	Naval Support Activity, Danang
NSAS	Naval Support Activity, Saigon
NSDM	National Security Council Decision Memorandum
NTC	National Training Center/Naval Training Center
NVAF	North Vietnam Air Force
NVA/PANV	North Vietnamese Army/People's Army of North Vietnam
NVN	North Vietnam, North Vietnamese
NVN/PL	North Vietnam/Pathet Lao
NZVF	New Zealand Vietnam Force
OASD(SA)	Office of the Assistant Secretary of Defense (Systems Analysis)
OB	Order of Battle
OCS	Officer Candidate School
OICC	Officer in Charge of Construction
OIR	Other Intelligence Requirements
OJT	On the Job Training
O&MA	Operations and Maintenance, Army
O&MF	Operations and Maintenance, Air Force
O&MN	Operations and Maintenance, Navy
OP	Observation Post
OPCON	Operational Control
OPLAN	Operations Plan
Opn	Operation
OPSEC	Operations Security
OR	Operational Readiness
Ord	Ordnance
ORI	Operational Readiness Inspection
OSA	Office of Special Assistant to the Ambassador
OSD	Office of the Secretary of Defense
OSP	Off-shore Procurement
OTIG	Office of the Inspector General
OTPMG	Office of the Provost Marshal General
PACAF	Pacific Air Forces
PAC/ALO	Pacific Air Liaison Officer
PACFLT	Pacific Fleet
PACNAVFACV	Pacific Naval Facility, Vietnam

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PACOM	Pacific Command
PAVN	People's Army of Vietnam
Pax	Passengers
PB	Patrol Boat
PBR	River Patrol Boat
PC	Patrol Craft
PCE	Escort Patrol Ship
PCF	Patrol Craft Inshore
PCH&T	Packing, Crating, Handling, and Transportation
P&D	Pacification and Development
PDO	Property Disposal Operation/Office
PF	Popular Forces
FFC	Private First Class
PFTC	Popular Forces Training Center
PG	Patrol Gunboat
PGH	Patrol Gunboat Hydrofoil
PGM	Patrol Gunboat Medium
PH	Purple Heart
PHILCAGV	Philippines Civic Action Group, Vietnam
PHILCON(V)	Philippine Contingent (Vietnam)
PIOCC	Provincial Intelligence and Operations Coordination Center
PL	Pathet Lao; Public Law
PLC	People's Liberation Committees
Pit	Platoon
PM	Preventive Medicine
PMDL	Provisional Military Demarcation Line
PMG	Provost Marshal General
POI	Programs of Instruction
POJ	Plain of Jars (Laos) (also PDJ, <u>Plaines des Jarres</u> )
POL	Petroleum, Oil, and Lubricants
POL/MIL	Political/Military Counselor
POLWAR	Political Warfare
Prep	Preparation
PRG	Provincial Revolutionary Government
PRP	People's Revolutionary Party
PRU	Provisional Reconnaissance Unit
PSA	Province Senior Advisor
PSC	Province Security Committee
PSDF	People's Self Defense Force
PSE	Personnel Systems Evaluation
PSYOP	Psychological Operations
PSYWAR	Psychological Warfare
P&T	Post and Telegraph
PURA	PACOM Utilization and Redistribution Agency
PW	Prisoner of War
PX	Post Exchange
QC	<u>Quan Ganh</u> (ARVN Military Police)
QL	<u>Quoc Lo</u> (National Highway)
QM	Quartermaster
QRF	Quick Reaction Force

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Qtr	Quarter
RAAF	Royal Australian Air Force
RAC	River Assault Craft; Reconnaissance Airplane Company
RAD	River Assault Division
RADM	Rear Admiral
RAG	River Assault Group
RAID	River Assault and Interdiction Division
RAMMS	RVNAF Automated Materiel Management System
RAR	Royal Australian Regiment
RAS	River Assault Squadron
RC	Revolutionary Committee
RCA	Riot Control Agent
RD	Rural Development
Rd(s)	Round(s)
R&D	Research and Development
RDC	Rural Development Cadre
RDT&E	Research, Development, Testing, and Evaluation
Recon	Reconnaissance
Red Horse	Rapid Engineering Deployment and Heavy Operational Repair Squads, Engineering
Regt	Regiment
RF	Regional Force
RFTC	Regional Force Training Center
RGNU	Royal Government of National Union
Rgr	Ranger
RHAW	Radar Homing and Warning
RID	River Interdiction Division
RIMMS	RVNAF Improvement and Modernization Management System
RIVDIV	River Division
RIVRON	River Squadron
Rkt	Rocket
RL	Rocket Launcher
RLAF	Royal Laotian Air Force
RLG	Royal Laotian Government
RLT	Regimental Landing Team
RMK/BRJ	Raymond-Morrison-Knudsen/Brown-Root-Jones Construction Firm
ROCMAGV	Republic of China Military Assistance Group, Vietnam
ROE	Rules of Engagement
ROI	Results of Investigation
ROK	Republic of Korea
ROKFV	Republic of Korea Forces, Vietnam
ROKMC	Republic of Korea Marine Corps
ROP	Republic of the Philippines
RP	Route Package
RPC	River Patrol Craft
RPD	River Patrol Division
RPCG	River Patrol Group; Rocket-Propelled Grenade
RR	Recoilless Rifle
R&R	Rest and Recuperation

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RSG	Rear Service Group
RSSZ	<u>Rung Sat</u> Special Zone
RTAF	Royal Thai Air Force
RTAVF	Royal Thai Army Vietnam Forces
RTFV	Royal Thai Forces, Vietnam
RTG	Royal Thai Government
RTTL	ROLLING THUNDER Target List
RTO	Radio Telephone Operator
RVN	Republic of Vietnam
RVNAF	Republic of Vietnam Armed Forces
RVNAFLS	Republic of Vietnam Armed Forces Language School
S	Secret
SA	Senior Advisor; Small Arms
SAAM	Special Assigned Airlift Mission
SAC	Strategic Air Command
SAE	Staff Advisory Element
SAM	Surface-To-Air Missile; Space Available Mail
SAR	Search and Rescue
SAS	Special Air Service
SC	Signal Corps
SCP	Special Collection Program
SCRF	Small Craft Repair Facility
SEA	Southeast Asia
SEAL	Sea, Air, and Land
SEA LORDS	Southeast Asia Lake-Ocean-River-Delta Strategy
SEAPC	Southeast Asia Pictorial Center
SEATO	Southeast Asia Treaty Organization
Sea Wolf	UH-1B Helo, Heavily Armored, USN operated
Sec	Security
SECDEF	Secretary of Defense
SECORDS	Secure Voice Cordboards
SECSTATE	Secretary of State
SEER	System for Evaluating the Effectiveness of RVNAF
Sop	Separate
SERE	Survival, Evasion, Rescue and Escape Course
SEVAC	Secure Voice Access Console
7AF	Seventh Air Force
7th Flt	Commander, Seventh Fleet
SF	Special Forces
SFGA	Special Forces Group, Airborne
SGU	Special Guerrilla Unit (Laos)
SICR	Specific Intelligence Collection Requirement
SIMEX	Secondary Items Map Excess
SITS	Single Integrated Telecommunications System
SKS	Soviet Semiautomatic Carbine, Simonov
SLAR	Side-Looking Airborne Radar
SM	Soldiers Medal
SM&DSL	Sector Management and Direct Support Logistic Center
SMMV	Spanish Medical Mission, Vietnam
SOG	Studies and Observations Group

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SOP	Standing Operating Procedure(s)
SOS	Special Operations Squadron
SP	Self-Propelled; Special
SPD	Special Projects Division
Spr	Sapper
Spt	Support
SQ	Squadron
Sqdn	Squadron
SR	Subregion
SRA	Strategic Research and Analysis
SRR	Straggler Recovery and Replacement
SS	Silver Star
SSB	Single-Side Band
SSG	Special Support Group
SSN	Nuclear Attack Submarine
SSSG	Special Supply Support Group
STAR	Star Far East Corporation
STON	Short Ton (2,000 pounds)
STPD	Short Tons per day
SVN	South Vietnam
SVNLA	South Vietnam National Liberation Army
T	Ton
TACAIR	Tactical Air
TACAN	Tactical Air Navigation
TACC	Tactical Air Control Center
TACS	Tactical Air Control System
TAOR	Tactical Area of Responsibility
TASE	Tactical Air Support Element
TC	Transportation Corps
TCN	Third-Country Nationals
TD	Table of Distribution
TDA	Table of Distribution and Allowance
TDY	Temporary Duty
TE	Tactical Emergency
Tech Rep	Technical Representative
TET	Lunar New Year Holiday
TF	Task Force
TFG	Tactical Fighter Group
TFS	Tactical Fighter Squadron
TFW	Tactical Fighter Wing
TG	Task Group
Tgt	Target
TIC	Troops in Contact
TMA	Traffic Management Agency
TMO	Transportation Movement Office(r)
TNT	Trainitrotoluene
TOC	Tactical Operations Center
TOE	Table of Organization and Equipment
TOMMS	Training Objective and Measurement Management System
TRIM	Trail Road Interdiction Multi-Sensor

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Trp	Troop
TS	Top Secret
TU	Task Unit
UCMJ	Uniform Code of Military Justice
UDT	Underwater Demolition Team
UE	Unit Equipment
UNGA	United Nations General Assembly
Unk	Unknown
UnLoc	Unknown Location
UPI	United Press International
US	United States
USA	US Army
USAAG	US Army Advisory Group
USACAV	US Army Construction Agency, Vietnam
USAECV	US Army Engineer Command, Vietnam
USAF	United States Air Force
USAHAC	United States Army Headquarters Area Command
USAID	United States Agency for International Development
USAPAV	US Army Procurement Agency, Vietnam
USAPDAV	US Army Property Disposal Agency, Vietnam
USARPAC	United States Army, Pacific
USARV	United States Army, Vietnam
USASTRATCOM	United States Army Strategic Communications Command
USCG	United States Coast Guard
USCGC	US Coast Guard Cutter
USG	United States Government
USIS	United States Information Service
USMA	United States Military Academy
USMC	United States Marine Corps
USN	United States Navy
USNS	United States Naval Ship
USPAO	US Public Affairs Office
USS	United States Ship
USSR	Union of Soviet Socialist Republics
UW	Unconventional Warfare
VADM	Vice Admiral
VC	Viet Cong (Vietnamese Communists)
VCI	Viet Cong (Vietnamese Communist) Infrastructure
VCNO	Vice Chief of Naval Operations
VC/NVA	Viet Cong/North Vietnamese Army
Vic	Vicinity
VMA	Marine Attack Squadron
VMFA	Marine Fighter/Attack Squadron
VN	Vietnam; Vietnamese
VN	Vietnam; Vietnamese
VN	Vietnam; Vietnamese
VNAF	Vietnamese Air Force
VNLSC	Vietnamese Navy Logistics Support Command
VNMA	Vietnamese National Military Academy
VNMC	Vietnamese Marine Corps
VNN	Vietnamese Navy

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VNQDD	Anti-French Nationalist Group (Vietnamese Nationalist Party)
VNRS	Vietnamese National Railway System
VNSF	Vietnamese Special Forces
VPA	Vietnam People's Army
VR	Visual Reconnaissance
VRE	Vietnam Regional Exchange
VTO	Vietnamese Telecommunications Organization
VTR	Vehicle Track Recovery
WAAPM	Wide Area Antipersonnel Mine
WAFB	Women's Armed Forces Corps
WBGF	Water-Borne Guard Post
WHEC	US Coast Guard High Endurance Cutter
WIA	Wounded in Action
WIP	Work-in-Place
WP	White Phosphorus
WPB	Coast Guard Patrol Boat
Wpr	Weapon
YG	Garbage Lighter
YLLC	Salvage Lift Craft, Light
YOG	Yard Oiler
YON	Fuel Oil Barge
YR	Floating Workshop
YRBM	Repair, Berthing and Messing Barge
YTL	Small Harbor Tug
YTM	Medium Harbor Tug
YWN	Water Barge

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