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AD NUMBER
AD343699
CLASSIFICATION CHANGES
TO: unclassified
FROM: confidential
LIMITATION CHANGES
TO: Approved for public release, distribution unlimited
FROM: Controlling DoD Organization: Assistant Chief of Staff for Force Development [Army], Washington, DC 20310.
AUTHORITY
OACSFOR D/A ltr dtd 13 Sep 1973; OACSFOR D/A ltr dtd 13 Sep 1973

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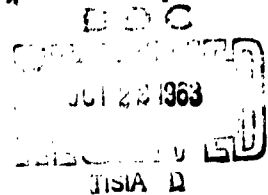
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579210
ARMY CONCEPT TEAM IN VIETNAM
APO 143, San Francisco, California

SUBJECT: ① Supplement Number 1 to Final Report, ⑥ Armed Helicopter Test (11).
(16 March-31 May 1963) ③

TO: See Distribution



This is a supplement to the final report of the Armed Helicopter Test* which covered the period 16 October 1962-15 March 1963.

In accordance with verbal authority from Commander, US Military Assistance Command, Vietnam, ACTIV has continued the collection of data on the operation of armed helicopters in Vietnam. By this means ACTIV will amplify the results of the Armed Helicopter Test and verify, where possible, the data contained in the final report of the test.

This supplement is the first of a series that will cover monthly reporting periods commencing at the end of the Armed Helicopter Test. The following reporting periods are summarized herein:

1. 16 March-31 March 1963.
2. 1 April-30 April 1963.
3. 1 May-31 May 1963.

The cutoff date for each reporting period is the end of the calendar month. Hence the first reporting period is only two weeks long to provide for the time from the end of the test to the end of March. The second, third, and subsequent reporting periods are whole months.

The unit that generated the data for this supplement is the Utility Tactical Transport Helicopter Company (UTTHCO). The personnel and equipment status of the UTTHCO is as follows:

Personnel	TD Authorization	Present for Duty	Present for Duty
		30 April	31 May
Officers	14	31	36
Warrant Officers	16	10	7
Enlisted Men	83	100	92

Equipment	TD Authorization	On Hand 30 April	On Hand 31 May
Armed Helicopter, UH-1	25	20	20

*"Operational Evaluation of Armed Helicopters (C)", Short Title OPENAH, Final Test Report, ACTIV, APO 143, San Francisco, California, 10 May 1963.

"This is a...
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Explan...
794...
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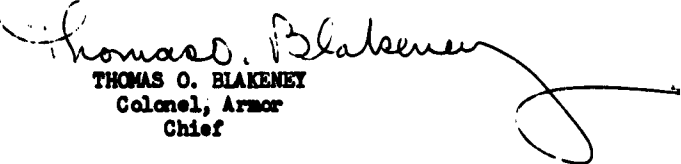
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SUBJECT: Supplement Number 1 to Final Report of Armed Helicopter Test
(16 March-31 May 1963) (U)

This supplement consists of the 13 attached tables.


THOMAS O. BLAKENEY
Colonel, Armor
Chief

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TABLE 1

SELECTED MISSION DATA

	16 Oct 62				16 Oct 62
	15 Mar 63	16-31 Mar	1-30 Apr	1-31 May	31 May 63
<u>Operations</u>					
Number of Missions	78	12	20	10	120
Mission Hours	674	121	168	201	1164
Combat Support Hours	1807	253	504	424	2988
UH-1 Sorties* (Armed)	1556	238	707	418	2919
UH-1 Sorties (Transport)	0	0	0	120	120
CH-21 Sorties	3382	314	714	514	4924
CH-34 Sorties	23	0	33	30	86
Landing Zones Protected	257	27	52	27	363
Eagle Flights Escorted	26	0	3	1	30
Med Evac Flights Escorted	10	4	3	0	17

Armament

Missions in Which					
Fire Was Returned	73	7	16	5	101
7.62mm Rounds Expended	36,180	43,600	79,190	49,550	208,520
2.75" Rockets Expended	585	143	628	311	1,667

Effects

Estimated Insurgent					
Casualties (KIA+WIA)	246	4	112	94	456
US KIA	2	0	0	0	2
US WIA	3	1	0	1	5
UH-1s Hit by Insurgent					
Fire	11	1	12	7	31
Number of Hits on UH-1s	17	1	17	8	43
UH-1s Disabled by Insurgent					
Fire	1	0	0	1	1

Aircraft Availability

	16 Oct 62-15 Mar 63	15 Mar-30 Apr	1-31 May
Average Number of UH-1s			
On Hand	19	21	20
Average Number of UH-1s			
Flyable	13	16	16
Average Availability Rate	65.9%	80%	82%

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TABLE 2
MISSION SUMMARY
16-31 Mar 64

Date	16	17	18	19	24	26	27	27	28	28	29	30	
Mission Nr	79	80	81	82	83	84	85	86	87	88	89	90	
UH-1Bs Used (armed)	5	6	5	5	6	5	5	5	2	5	5	6	60
UH-1B Sorties (armed)	20	11	5	20	60	31	12	10	10	15	20	24	238
Combat Support Hours Flown by UH-1Bs	23	19	9	17	32	35	15	13	12	34	22	21	253
CH-21s Escorted	13	10	7	10	15	6	4	10	2	13	8	0	98
CH-21 Sorties	52	10	7	40	63	30	8	19	10	39	36	0	314
CH-34s Escorted	0	0	0	0	0	0	0	0	0	0	0	0	0
CH-34 Sorties	0	0	0	0	0	0	0	0	0	0	0	0	0
UH-1Bs Escorted (transport)													
UH-1B Sorties (transport)													
Nr Landing Zones Protected	1	1	1	1	10	5	2	1	1	2	2	0	27
Nr Medical Evac Missions	0	0	0	0	1	0	0	0	3	0	0	0	4
Nr Prisoner Pickups	0	1	0	0	0	0	0	0	0	0	0	0	1
Nr Eagle Flights	0	0	0	0	0	0	0	0	0	0	0	0	0
Mission Duration (hours)	7	7	4	5	28	12	12	3	14	15	11	3	121

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TABLE 3
MISSION SUMMARY
1-30 Apr 63

Date	3	3-6	6	7	8	8	9	9	10	10	13	13	13						
Mission Nr	91	92	93	94	95	96	97	98	99	100	101	102	103						
UH-1Bs Used (armed)	5	3	5	4	4	3	4	5	5	5	5	3	5						
UH-1B Sorties (armed)	24	26	11	4	4	6	12	90	54	27	15	4	27						
Combat Support Hours Flown by UH-1Bs	30	21	18	12	8	9	24	65	25	32	8	7	29						
CH-21s Escorted	20	2	15	2	2	4	4	14	0	14	8	4	0						
CH-21 Sorties	100	10	45	4	4	8	14	0	0	42	8	36	0						
CH-34s Escorted	0	0	0	0	0	0	0	0	0	0	0	0	15						
CH-34 Sorties	0	0	0	0	0	0	0	0	0	0	0	0	34						
UH-1Bs Escorted (transport)																			
UH-1B Sorties (transport)																			
Nr Landing Zones protected	2	0	2	1	1	1	2	10	2	1	1	1	2						
Nr Medical Evac Missions	0	1	0	1	0	0	0	0	0	0	0	0	0						
Nr Prisoner Pickups	0	0	0	0	0	0	0	27	0	0	0	0	0						
Nr Eagle Flights	0	0	0	0	0	0	0	2	1	0	0	0	0						
Mission Duration (hours)	9	10	8	7	7	6	9	11	5	4	3	4	11						

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TABLE 4
MISSION SUMMARY
1 - 31 May 63

Date	1	5	1-6	11	18	22	22	22	23	24	29	Total					
Mission Nr	111	112	113	114	115	116	117	118	119	120	-						
UH-1Bs Used (armed)	4	4	12	8	6	5	6	2	5	5	57						
UH-1B Sorties (armed)	32	20	156	10	48	60	25	54	8	5	418						
Combat Support Hours Flown by UH-1Bs	38	27	185	4	32	35	25	66	7	5	424						
CH-21s Escorted	18	20	24	10	16	0	14	19	0	14	145						
CH-21 Sorties	72	60	270	0	64	0	45	60	0	15	514						
CH-34s Escorted	0	0	0	0	0	0	0	0	15	0	15						
CH-34 Sorties	0	0	0	0	0	0	0	0	30	0	30						
UH-1Bs Escorted (transport)	0	0	0	0	0	4	0	9	0	0	13						
UH-1B Sorties (transport)	0	0	0	0	0	60	0	60	0	0	120						
Nr Landing Zones Protected	4	3	4	0	2	6	3	2	2	1	27						
Nr Medical Evac Missions	0	0	0	0	0	0	0	0	0	0	0						
Nr Prisoner Pickups	0	0	0	0	0	0	0	0	0	0	0						
Nr Eagle Flights	0	0	0	0	0	1	0	2	1	0	4						
Mission Duration (Hours)	11	12	131	7	9	9	7	11	2	2	201						

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TABLE 5
TARGET ENGAGEMENTS
16 - 31 Mar 63

Date	16	17	18	19	24	26	27	27	28	28	29	30	Total
Mission Nr	79	80	81	82	83	84	85	86	87	88	89	90	
Landing Zones Protected	1	1	1	1	10	5	2	1	1	2	2	0	27
Landing Zones Contested	1	0	1	1	0	1	0	1	1	0	0	0	6
Insurgent Open Fields	0	0	0	0	0	1	0	0	0	0	0	0	1
Positions Trees & Wood Line	1	0	1	1	0	1	1	0	1	1	0	0	7
Detected Buildings	1	0	0	0	0	0	0	0	0	0	0	0	1
in: Boats	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurgents Seen Firing	0	0	0	0	0	0	1	0	1	0	0	0	2
Insurgent Fires Only Seen	0	0	1	0	0	1	1	1	0	1	0	0	5
Insurgent													
Fires	0	0	1	0	0	1	1	0	0	1	0	0	4
Identified Automatic Weapon	0	0	1	0	0	0	0	0	1	0	0	0	2
by Type:													
Rounds													
Expend by UH-1B:	9300	0	17300	9100	0	550	0	7300	50	0	0	0	43600
7.62 mm	6	0	100	13	0	14	0	4	6	0	0	0	143
2.75" Rocket													
Estimated Insurgent Casualties	0	0	0	0	0	unk	0	0	4	0	0	0	4
US Casualties	0	0	0	0	0	1	0	0	0	0	0	0	1
UH-1s Hit/Nr Hits	0	0	0	0	0	1/1	0	0	0	0	0	0	1/1

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TABLE 6
TARGET ENGAGEMENTS
1 - 30 Apr 63

Date	3	3-6	6	7	8	8	9	9	10	10	13	13	13			
Mission Nr	91	92	93	94	95	96	97	98	99	100	101	102	103			
Landing Zones Protected	2	0	3	1	1	1	2	10	2	1	1	3	2			
Landing Zones Contested	1	2	3	0	0	0	0	1	1	0	0	0	1			
Insurgent Positions	0	0	0	0	0	0	0	1	1	0	0	0	0			
Open Fields	0	0	0	0	0	0	0	1	1	0	0	0	0			
Trees & Wood Line	0	1	1	0	0	0	1	1	1	0	0	0	1			
Detected Buildings	0	0	0	0	0	0	0	1	0	0	0	0	1			
Boats in:	0	0	1	0	0	0	0	0	0	0	0	0	0			
Insurgents Seen Firing	0	1	1	0	0	0	0	1	1	0	0	0	1			
Insurgent Fires Only Seen	1	0	1	1	0	0	1	1	1	0	0	0	1			
Insurgent Fires	0	1	1	1	0	0	0	1	1	0	0	1	1			
Identified Automatic Weapon by Type:	0	1	1	0	0	0	0	1	1	0	0	0	1			
Rifle	0	1	1	1	0	0	0	1	1	0	0	1	1			
Automatic	0	1	1	0	0	0	0	1	1	0	0	0	1			
Rounds Expended by UH-1B:	1200	160	2000	0	0	0	0	500	3000	0	0	0	20900			
7.62 mm	60	2	150	0	0	0	0	0	4	0	0	0	59			
2.75" Rocket																
Estimated Insurgent Casualties	0	unk	40	0	0	0	0	7	9	0	0	0	5			
US Casualties	0	0	0	0	0	0	0	0	0	0	0	0	0			
UH-1s Hit/Mr Hits	0	0	4/7	0	0	0	0	0	0	0	0	0	1/1			

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TABLE 6 (cont.)
TARGET ENGAGEMENTS
1-30 Apr 63

Date	14	19	20	23	24	27	28	Total
Mission Nr	104	105	106	107	108	109	110	-
Landing Zones Protected	5	7	4	3	4	2	1	52
Landing Zones Contested	1	1	1	1	1	1	1	16
Insurgent Positions Detected in:								
Open Fields	0	0	1	0	0	0	0	3
Trees & Wood Line	1	1	1	1	1	1	1	13
Buildings	0	1	0	0	1	0	0	4
Boats	0	0	0	0	0	0	0	1
Insurgents Seen Firing	1	1	1	1	1	1	1	12
Insurgent Fires Only Seen	1	1	1	0	0	1	0	11
Insurgent Fires Identified by Type:								
Rifle	1	1	1	1	1	1	1	14
Automatic Weapon	0	1	1	1	0	1	0	8
Rounds Expended by UH-1B:								
7.62mm	1600	2150	3800	2100	200	23,300	280	79,190
2.75" Rocket	135	12	42	6	2	134	22	771
Estimated Insurgent Casualties	5	5	19	4	15	Unk	3	112
US Casualties	0	0	0	0	0	0	0	0
UH-1s Hit/Mr Hits	0	2/4	2/2	1/1	2/2	0	0	12/17

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TABLE 7
TARPOT ENCOUNTERS
1-31 May 63

Date	1	5	1-6	11	16	22	22	23	24	29	Total	
Mission Nr	111	112	113	114	115	116	117	118	119	120	-	
Landing Zones Protected	4	3	4	0	2	6	3	2	2	1	27	
Landing Zones Contested	1	1	1	0	0	2	1	0	0	0	6	
Insurgent	0	0	0	0	0	1	0	0	0	0	1	
Open Fields	1	1	1	0	0	1	1	1	0	0	6	
Positions	0	0	0	0	0	1	0	0	0	0	1	
Trees & Wood Line	0	0	0	0	0	1	0	0	0	0	1	
Buildings	0	0	0	0	0	1	0	0	0	0	1	
Boats	0	0	0	0	0	0	0	0	0	0	0	
Insurgents Seen Firing	0	1	0	0	0	1	0	0	0	0	2	
Insurgent Fires Only Seen	1	0	1	0	0	1	0	1	0	0	4	
Insurgent												
Rifle	2	1	0	0	1	1	0	1	0	0	5	
Fires	0	0	1	0	0	1	0	0	0	0	2	
Identified Automatic Weapon	0	0	1	0	0	1	0	0	0	0	2	
by Type:												
Rounds												
Expended	1000	1000	7600	0	600	10,500	17,150	0	11,000	100	49,350	
by UH-1B:	12	14	86	0	0	128	51	0	0	0	311	
2.75" Rocket												
Estimated Insurgent Casualties	0	4	5	0	0	85	0	0	0	0	94	
US Casualties	0	1	0	0	0	0	0	0	0	0	1	
UH-1s Hit/Mr Hits	0	1/1	0	0	0	5/6	0	1/1	0	0	7/8	

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TABLE 8
GROUND FIRE DAMAGE REPORT SUMMARY
16 Mar - 30 Apr 63

Date Acft Hit	Acft Alt (ft)	Acft Speed (kts)	Nr of Passes Over Same Area	Insurgent Environment	Clock Direction of fire*	Est Range of Source of Fire (Meters)	Casual- ties Sus- tained	Nr of Pro- jec- tiles Rec'd
26 Mar	700	80	3	Trees & Craters	unk	unk	1	1
6 Apr	500	60	2 & 3	Mountain	9	600	0	2
6 Apr	600	70	4	Mountain	2	200	0	1
6 Apr	150	60	1	Mountain	9	300	0	3
6 Apr	500	80	1	Mountain	9	600	0	1
13 Apr	800	80	3	Mountain	8	250	0	1
19 Apr	300	65	1	Trees	9	400	0	1
19 Apr	400	65	1	2 Huts	9	75	0	3
20 Apr	300	80	1	Village in Trees - Can- al	3-9	100	0	1
20 Apr	200	70	2	Brush	7	30	0	1
23 Apr	100	100	1	Canal Line	3	50	0	1
Apr	1500	70	N/A	Delta	6	500	0	1
Apr	300	90	3	unk	unk	unk	0	2

* With reference to nose of helicopter (1200)

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TABLE 9
GROUND FIRE DAMAGE REPORT SUMMARY
1-31 May 63

Date Aft Hit	Aft Alt (ft)	Aft Speed (kts)	Nr of Passes Over Same Area	Insurgent Environment	Clock Direction of Fire	Est Range of Source of Fire (meters)	Casual- ties Sus- tained	Nr of Pro- ject- iles Rec'd
5 May	300	80	1	Tree Line	unk	100	1	1
22 May	50	70	3	Village	9	300	0	1
22 May	500	80	1	Tree Line	1	unk	0	1
22 May	50	80	3	Village	9	300	0	1
22 May	100	70	1	unk	2	unk	0	1
22 May	1000	80	1	Village	3	300	0	1
23 May	500	80	3	Village-Canal	12+9	100	0	3

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TABLE 10
UH-1 AVAILABILITY
16-31 Mar 63

DATE	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	DAILY AVG
ASSIGNED	26	26	26	27	27	27	27	25	25	25	25	25	25	25	25	25	25.1
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	26	26	26	27	27	27	27	25	25	25	25	25	25	25	25	25	25.1
FLYABLE	1	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
NON-FLYABLE	4	26	4	17	5	17	5	18	5	19	5	18	4	19	4	19	17.4
IN	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
DOWN MAINT	2	4	2	3	2	4	2	3	2	2	2	1	1	1	2	2	1.04
IN	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
DOWN MAINT	2	2	1	2	1	2	1	2	0	0	0	1	0	1	2	3	1.04
IN	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
DOWN MAINT	0	3	0	1	0	2	0	1	0	0	1	0	0	0	1	0	.082
EDF	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A
PERCENT AVAILABLE	0	1	0	1	0	2	0	2	0	1	0	1	0	1	0	1	1.01
PERCENT UH-1A AVAILABLE	75	80	80	85	85	85	85	96	96	92	92	92	88	78	78	78	85.5
PERCENT UH-1B AVAILABLE	67	67	67	60	60	60	60	100	100	100	80	80	90	60	60	60	73.3
PERCENT UH-1B AVAILABLE	80	85	85	85	85	90	90	95	95	90	95	95	95	75	75	75	74.6

Notes: 1) "Other" represents crashed aircraft or aircraft being processed for shipment. These aircraft were not available for missions and are not included in the availability percentages.

2) "Flyable" + "Non-flyable" = "On Hand."

3) "A" = UH-1A; "B" = UH-1B.

4) Availability percentages are derived from ratios of aircraft "Flyable" to aircraft "On Hand."

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TABLE 11
UH-1 AVAILABILITY
1 - 30 APR 63

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ASSIGNED	25	25	23	23	23	23	23	23	23	23	23	21	21	21	20
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	25	25	23	23	23	23	23	23	23	23	23	21	21	21	20
FLYABLE	25	25	23	23	23	23	23	23	23	23	23	21	21	21	20
NON-FLYABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IN MAINT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OUT OF MAINT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT AVAILABLE	75	85	90	80	77	85	88	82	92	87	78	90	80	65	85
PERCENT UH-1A	75	85	90	80	77	85	88	82	92	87	78	90	80	65	85
PERCENT UH-1B	80	60	100	100	100	33 1/3	100	100	100	66 2/3	0	0	0	0	0
PERCENT UH-1C	80	90	90	80	75	85	85	80	90	85	90	80	80	80	85

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TABLE 11 (cont)
UH-1 AVAILABILITY
1-30 Apr 63

DATE	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	DAILY AVG
ASSIGNED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21.1
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21.1
FIXABLE	18	18	18	17	16	15	16	16	15	16	17	18	18	16	18	16.26
NON-FIXABLE IN	2	2	2	3	4	5	4	4	5	4	3	2	2	4	2	2.01
ORGN MAINT IN	1	1	1	2	3	1	0	1	1	2	0	0	0	2	0	.991
FIELD MAINT IN	0	0	0	0	0	2	2	1	2	1	2	1	1	1	1	.09
EDP	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1.01
PERCENT AVAILABLE	90	90	90	85	80	75	80	80	75	80	85	90	90	80	90	80.2
PERCENT UH-1As*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50.6
PERCENT UH-1Bs AVAILABLE	90	90	90	85	80	75	80	80	75	80	85	90	90	80	90	80.5

* UH-1As were phased out by 16 Apr 63.

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TABLE 12
UH-1 AVAILABILITY
1-31 May 63

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ASSIGNED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
FIXABLE	16	17	18	18	18	14	15	17	17	17	16	16	17	17	17
NON-FIXABLE	2	3	2	2	2	6	5	3	3	3	4	4	3	3	3
IN															
OWN MAINT	0	1	0	0	0	2	1	0	0	0	1	1	1	1	1
IN															
FIELD MAINT	1	1	1	1	1	3	3	2	2	2	2	2	1	2	2
IN															
REP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PERCENT															
AVAILABLE	90	85	90	90	90	70	75	85	85	85	80	80	85	85	85

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TABLE 12 (cont.)
UH-1 AVAILABILITY
1 - 31 May 63

Class	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Daily Average
ASSIGNED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
OTHER	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
FLYABLE	17	17	16	17	16	18	18	18	17	14	14	10	13	17	1	17	16.03
NON-FLYABLE	3	3	4	3	4	2	2	2	3	6	6	10	7	3	3	3	3.06
IN ORCH MAINT	1	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	.04
IN FIELD MAINT	2	3	3	3	4	2	2	2	2	3	5	9	7	3	3	3	2.07
OUT	1	1	1	1	1	1	1	0	0	1	1	2	3	2	2	2	1.01
PERCENT AVAILABLE	85	85	80	85	80	90	90	90	85	70	70	50	65	85	85	85	82

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TABLE 13
AMMUNITION EXPENDITURE

Date of Type of Ammunition	15 Oct 62-15 Mar 63	16 Mar-30 Apr	1 May-31 May	15 Oct 62-31 May 63
	7.62mm Rocket	7.62mm Rocket	7.62mm Rocket	7.62mm Rocket
Rounds Expended	36,180	585	49,550	1667
Gun or Tube Days	238	2757	640	10,117
Expenditure Rate per Gun or Tube	152	.21	.77	.16
Day of Supply per Gun or Tube	6	1	2	3

Notes: 1) .30 Cal ammunition is no longer used and is eliminated from the report.

2) The expenditure rate for a given type of ammunition is computed by the formula $RE/GTD-ER$, where RE = number of rounds expended, GTD = gun or tube days, and ER = expenditure rate per gun or tube per day of engagement. GTD is computed by multiplying the number of days on which ammunition of a given type was expended by the number of guns or tubes which can use that type.

3) The day of supply is determined by dividing the expenditure rate per gun or tube by the number of days in the month (assumed to be 30); where the quotient includes a fraction, the next larger whole number is used.

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