BUREAU OF ORDNANCE NAVY DEPARTMENT Washington, D.C.

MEMORANDUM

3 April 1946

From: Chief of Logistics Plans Section, Planning and Progress Division

To: The Chief of the Bureau of Ordnance.

Via: Director, Planning and Progress Division.

Subject: Record of Expenditures, World War II -- Addenum No. 1 to.

Reference: (a) Chief of Logistics Plans Section Conf. [ILLEGIBLE]

of 28 January 1946 to ChBuOrd.

Enclosure: (A) Per Unit Expenditures of Gun Ammunition, Bombs, Torpedoes,

and Depth Charges.

(B) Additional Record of Aircraft Ammunition Expenditures and Depth Charge

and Torpedo Issues.

1. Paragraph 5 of reference (a) states that an addenum to reference (a) was in preparation for [ILLEGIBLE] which would give expenditures per gun, per tube, per airplane based on ammunition expended on mounted and installed equipment at various dates during the war. Enclosure (L) provides this information.

2. Paragraph 6 of reference......

/s/ H.N. [ILLEGIBLE]

(Scanners Note: The original document is VERY badly faded -- it was printed/typed on glossy photographic paper, and the cover page had a large amount of it's ink rubbed away over the years. The original scan follows this partial transcript.)

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From:

Lans Stans

(Ordnance Topendilin

The Chief of the Bureau of Ordnence.

ia: Director, Planning and Progress Divisi

Subject: Record of Expenditures World For FI

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I. Paragraph 5 of reference (r) state the addendum to reference (a) was in preparatively. Would give expenditures per gun, or tube, based on ammunition expended on mounted and ment at various dates during the war. Enclose this information.

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GUN AMMUNITION - EXPENDITURES PER BARREL

Year	16"/50	1611/45	14"/50	14"/45	12"/50	811/55
1941-42 Rounds Barrels Rounds/Barrel	- 9 -	1048 78 13.4		52	93 18 5.2	7171 128 56.0
1943 Rounds Barrels Rounds/Barrel	70	10	60	4.2	11:11: 18 8.0	11137 137 81.3
1944 Rounds Barrels Rounds/Barrel						
1945 Rounds Barrels Rounds/Barrel	1566	1/1212	16979	19355	2676	57610
Year	.6"/53	611/47	5"/51	<u>5"/38</u>	511/25	3"/50
1941-42 Rounds Barrels Rounds/Barrel				71886 636 113.0		
1943 Rounds Barrels Rounds/Barrel		61978	6358 3	23417	26271	51,392
1914 Rounds Barrels Rounds/Barrel			25421 9 205	39292 3040 309.0	97121 190	80833 -14683
1945 Rounds Barrels Rounds/Barrel	- 1 90 -	09672 400 274•2		57648 11 4330	11613 : 310	25803 4144 6.2

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GUN AMMUNITION - EXPENDITURES PER BARRIL (Cont.)

Year	411/50	<u>40-1111</u>	1.11	20-III	50 Cal.	30 Cal.
1941-42 Rounds Barrels Rounds/Barrel	720 396 18	21403 1 164 130.5	1004	1769	2536	67576 3437 19.6
1943 Rounds Barrels Rounds/Barrel	339		744	14877	2486	3669
1944 Rounds Barrels Rounds/Barrel	351		1580	37707	4156	3851
1945 Rounds Barrels Rounds/Barrel	148	133516 25810 194.3	908	51010	7657	3764

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o Designation DECLASSIFILD

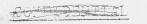
BOMES PER AIRPLANE PER MONTH - JANUARY 1945 THROUGH AUGUST 1945

	(Carrier) (SB2C	(-Land Ba	sed	SB2C
Bomb Type	F6F TBM	F4U-FG		F6F TBM	F4U-FG	
100 GP 250 GP 500 GP 1000 GP 2000 GP 300 GP 500 S.A.P. 1000 A.P. 1600 A.P. Incendiary Napalm Fragmentation Torpedo Mine Depth Bomb	.161111	1.94 10	6.72 .04 0.59 .01 1.29 - .05 - .11 - .45 - .06 -	.51 .1 .26 .13 1.5	.06 5 2.21 1 1.38 5 .01 - 5 .03 .07 - 7 .13 1.02 7 .10	1.01 1.62 4.97 .26 - .51 .16 - .78 1.65 1.73
Bomb Type	(SBD PBM	Land Base		<u>PB4Y</u>) PB2Y	
100 GP 250 GP 500 GP 1000 GP 2000 GP 300 GP 500 S.A.P. 1000 A.P. 1600 A.P. Incendiary Napalm Fragmentation Torpedo Mine Depth Bomb	.04	.29 .3	31 1.85	2.90 1.52 1.22 .05 .01 .01 - - .60	.74	

NOTE:

Number of aircraft used in computing above expenditures is number on hand in Squadrons engaging in action at any time during the month. It was not possible accurately to determine bomb expenditures per airplane per month for 1942, 1943, and 1944 because of insufficiency of and lack of continuity in reports for those years. The 1945 figures cover the seven and one half month period during which the war continued.

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COUNT TORPEDO EXPENDITURES PER TUBE

<u>Year</u>	1k. 8, 9	Mr. 11,12,15	11k.10,14,10,23	1:.13 (Surface
1941-42 Torpedoes Tubes Torps/Tubes	302 116 2.6	21,6 1887 0.1	1948 642 3.0	
1943 Torpedoes Tubes Torps/Tubes	386 750 0.5	366 2482 0.1	3920 1002 3•9	214 1438 0.05
1944 Torpedoes Tubes Torps/Tubes	65 165 0.4	307 3950 0.1	6756 1508 4.5	536 1400 0.4
1945 Torpedoes Tubes Torps/Tubes	37 23 1.6	187 3463 0.05	2686 2052 1.3	110 1264 0.1

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DEPTH CHARGE EXPENDITURES PER SHIP

Year	Mk. 6	Mk. 7	Mk. 8	14. 9	14k. 14
1941-42 Rounds Ships (DD) (DE, PF) Rounds/Total Ships	202	202	202	202 0	
1943 Rounds Ships (DD) (DE, PF) Rounds/Total Ships	309 178	309 - 178	309 178	178	309 - 1 7 8 -
1944 Rounds Ships (DD) (DE, PF) Rounds/Total Ships	376 460	376 460	376 460	376 460	460
1945 Rounds Ships (DD) (DE, PF) Rounds/Total Ships	420 409	420	420 409	420 409	7109 7120

It was not possible accurately to determine the number of racks for use in determining depth charge expenditures. Consequently, to provide some measure for future calculations, it was decided to compute expenditures on a per ship basis. The number of DD's, DE's, and PF's, was used as those vessels were those responsible for the vast majority of depth charge expenditures.

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ESTIMATED* EXPENDITURES ('DROPPINGS') OF NAVAL AIRCRAFT BOMBS - JANUARY 1944 THROUGH APRIL 1944

6	100# AN-M30Al	250# <u>AN-M57Al A</u>	500# N-M4364Al	1000# AN-1144,65A		00# ,65 <u>41/42</u>
Each Tons	23,500 1,175	10,250	18,400 4,600	3,700 1,850		300 300
	Semi-Armor Piercing		Depth 350# <u>AN-Mx54-</u>	Bombs al	ettison- ole Gas Tanks	Frag. Bombs & Clusters
Each Tons	1,350 575	230 121	1,750 306	5,900 NR	NR NR	2,950 NR

MOTE:

^{* -} Because of deficiencies in the aircraft action coding system for early 1944, actual figures for these individual months are not obtainable. Estimates are the best eveilable, but may be in error up to 20%.

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Year	Mk 7 Mk 8	Mk 9	Mklo Mkl	l Mkiz	<u>Mk 13</u>	Mk14&23	<u>Mc15</u>	<u>Mk18</u>
7 Dec. 1941 1 Jan.1943 Rounds Tons	16 1060 13 1618	11 13	733 - 4(2)-7(2) 1413 2484	2974 4723	1830 3521	pas
1 Jan.1943- 1 Jan.1944 Rounds Tons	(1) 629 - 960	338 408	54 133 60 234		1854 32 59	3545 5629	762 1466	304 456
l Jan.1944- l Jan.1945 Rounds Tons	(1) (1)	(1)	(1) (1)	(1)	4563 3022	5404 8582	2057 3958	3060 2590
l Jan.1945- l Sep.1945 Rounds Tons	(1) (1)	(1)	(1) (1	(1)	1846 3245		-187(2)	2054 3081
TOTAL ROUNDS	S 16 1689 13 2578	349 421	787 133 872 234		9676 17010	14365 22812	4649 8945	5418 8127

NOTES:

- (1) Eventually became obsolete and later scrapped.
- (2) Negative issue probably due to torpedoes being turned in in exchange for other marks or occasioned by removal of part of ships allowance.

GENERAL NOTE:

Figures shown above were obtained by adding to the reserve inventory afloat at the beginning of the year the production during the year covered, and deducting the reserve inventory at the end of the year. It is believed that the figures derived from this study represents the approximate total number of torpedoes required for all purposes such as expenditures, requirements to fill new construction, pipe line requirement to establish a needed reserve on tenders, advanced bases, and continental depots, and an amount required to be continuously enroute to these activities to reinforce the ready reserve.

This study has entirely omitted the afloat quantities on combetant ships. Accordingly, there is an inherent error due to changes in ships allowance, and especially in the case of submarines, inventories might reflect a larger or smaller quantity of ships allowances being counted as reserves ashore at the immediate time of the inventory.

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TABULATION	OF DEPT	H CHARGE	ISSUES	(APPROXIMATE)

Yoar	<u>Mk 6</u>	Mk 7	Mr 8	Mk 9&9-1	1k 9.2,3,4	Mk 10
7 Dec.1941- 1 Jan.1943 Rounds Tons	81,381* 17,090	19,237* 7,387	p	-	ene ene	eno peo
l Jan.1944 l Jan.1944 Rounds Tons	64,738 13,590	4,872 1,871	%	20,628	_ 	
l Jan.1944- l Jan.1945 Rounds Tons	24,498 5,140	1,034 397	41,165	- 4,503#	73,067 3,653	27,295 1,365
l Jan.1945 l Sep.1945 Rounds Tons	10,195	7,215 2,771	8,578 2,230	- 7,068#	12,499 625	14,198 710
TOTAL ROUNDS TOTAL TONS	180,812 37,961	32,358 12,426	49,743	20,628 2,475	85,566 16,152	41,493

NOTES:

COMPRESENTATION

- * Figures derived by adding to the reserve inventory ashore on 1 March 1942, the production from 7 December 1941 to 1 January 1943 and deducting the reserve inventory ashore on 1 January 194 Accordingly, this is not a true yearly issue as all of the necessary information is not available.
- % No issues reported as production of 702 was not released for service use.
- # Negative issues probably due to turn in by fleet for other marks
 GENERAL NOTE;

Figures shown above were obtained by adding to the reserve inventory afloat at the beginning of the year, the production during the year covered, and deducting the reserve inventory at the end of the year. It is believed that the figures derived from this study represents the approximate total number of depth charges required for all purposes such as expenditures, requirements to fill new construction, pipe line requirement to establish a needed reserve on tenders, advanced bases, and continental depots, and an amount required to be continuously enroute to these activities to reinforce the ready reserve.

This study has entirely omitted the afloat quantities on combatant ships. Accordingly, there is an inherent error due to changes on ships allowances, and in cases where ships might have their allowances stocked ashore temporarily, and so included in the reserve inventory ashore at the immediate time of the inventory. SUBJ:

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