

APPENDIX (B).

COMPARATIVE Tables showing Ships in Full and Reserve Commission in 1914 and Distribution in 1921 included in proposed Sketch Vote 1922/23 on a Peace Basis (this list has not yet received final approval).

	1914.			1922/23.			
	F.C.	Reserve.	Total.	Full.	Reduced.	C. and M.	Total
Battleships	31	29	60	13	9	..	22
Battle Cruisers	7	1	8	3	3	1	7
Cruisers	21	24	45	..	2	..	2
Light Cruisers	29	27	56	33	12	..	45
Flotilla Leaders	1	..	1	8	8	..	16
Destroyers	102	109	211	64	113	..	177
Torpedo Boats	10	96	106	..	2	..	2
		(of which 13 M.R.)					6
Aircraft Carriers	1	..	1	4	2	..	
Submarines	72	..	72	46	16	27	89
Minelayers	..	7	7	..	4	..	4
Monitors	..	..	..	..	2	..	2
Sloops	8	3	11	20	..	1	21
Gunboats	21	..	21	19	..	2	21
Surveying Ships	10	..	10	9	..	..	9
Hospital Ships	1	..	1	2	..	..	2
P. Boats	..	..	..	3	13	..	16
Minesweepers	6	..	6	7	8	46	61
Depot Ships	18	4	22	15	5	..	20
Tugs	3	..	3	5	..	..	5
Trawlers	13	..	13	26	..	1	27
Drifters	..	..	..	2	2	6	10
Whalers	..	..	..	..	2	..	2
Special Service Vessels	17	..	17	15	..	..	15
Diving Tenders	2	..	2	..	3	..	3
Motor Launches	..	..	..	5	..	..	5
Miscellaneous	2	..	2	..	4	..	4
C.M.B.'s	..	..	..	5	..	..	5

APPENDIX (C).

Mé morandum prepared by the Naval Staff on the Question of the Comparative Naval Strengths of Great Britain, United States and Japan at the present time.

In the examination of the Naval Staff Representatives at the meeting of Sir Eric Geddes's Committee at the Treasury on the 19th October, a certain amount of emphasis was laid on the *present* numbers of Capital Ships in existence (October 1921).

It was pointed out that whereas to-day Great Britain has 30 Capital Ships of Dreadnought type, United States has only 20, and Japan 10. Very incorrect conclusions may be deduced by the non-technical mind from these figures. It might, for instance, be argued that Great Britain is equal in strength at the moment to the combined navies of United States and Japan, whereas this is by no means the case.

Firstly, the United States have included in their 20, 3 post-Jutland ships, whereas Great Britain and Japan have only 1.

Secondly, the 20 ships of the United States are all battleships, whereas the 30 of Great Britain consist of 22 battleships and 8 battle cruisers. The latter include "Hood," but two of them are obsolete (viz., "Australia" and "New Zealand"), 2 others are rapidly becoming so, and the other 4, with the exception of the "Hood," are very weakly armoured.

It is almost impossible to assess the relative strength of battleships and battle cruisers: battle cruisers are necessarily of inferior fighting power, since they

sacrifice guns and armour to speed: this is especially the case in our 7 pre-Jutland battle cruisers. If the battleship fleet be alone considered, the figures are as follows:—

Great Britain.	United States.	Japan.
22	20	6

Thirdly, an important point in assessing the strengths of the number of ships in commission and reserve: Great Britain has in full commission 13 battleships and 3 battle cruisers against the United States' 18 battleships, necessitating 14 British Capital Ships being in reserve. Ships in reserve deteriorate more rapidly than ships in commission, and consideration should be given for this fact in comparing strengths.

From this it will be seen that whereas Great Britain has 30 ships in existence to the 20 of the United States, their relative fighting strengths are in a very different proportion. Moreover, of far more serious consideration is the fact that our present numbers and our present fighting strength is the maximum that we can attain until we have completed the 4 new "Replacement" ships that have been approved; whereas, the figures of 20 and 10, respectively, for the United States and Japan show them at their minimum strength, and a strength which is increasing steadily and rapidly month by month.

If we assume that Great Britain is only of slightly inferior strength in ships in full commission compared with the United States at the moment, we have yet to face the fact that our 14 ships in reserve are all we shall have for the next three years to meet the 15 post-Jutland ships that she will be steadily adding to her fleet.

The figures shown at the beginning of this Memorandum for Japan may be equally misleading as those for the United States. Japan is also on the threshold of completing several more post-Jutland ships, which will bring her strength up to 17 by 1924 and 25 in 1928 if her intended building programme is not curtailed.

To sum up, therefore, the position is as follows: At the moment, Great Britain is at the summit of her Naval strength and cannot alter her position for at least three years; the United States and Japan are at the threshold of completing their new navies. The battleship strength of Great Britain and the United States at the present time is approximately equal—if anything, the balance is in favour of the United States—while next year she will receive an addition of at least 3 post-Jutland battleships.

In addition to the matériel question, the personnel aspect must be borne in mind.

The numbers of personnel for Great Britain and the United States are as follows:—

Great Britain.	United States.
113,350*	133,300

Great Britain, to man her ships on mobilisation, therefore, has to draw to a much larger extent on Reservists than the United States have to do. This is important as affecting efficiency and relative fighting strength.

October 24, 1921.

* Excluding Coastguard, naval cadets and boys under training, none of whom are available for manning the Fleet and are not included in the American figures.

APPENDIX (D).

NOMINAL List of Capital Ships in Commission and Reserve for Great Britain, United States and Japan, giving Dates of Launch and Armament.

BRITISH (November 1921).					UNITED STATES OF AMERICA.					JAPAN.		
—	—	Date of Launch.	Armament.		—	—	Date of Launch.	Armament.		—	Date of Launch.	Armament.
<i>Battleships.</i>					<i>Battleships.</i>					<i>Battleships.</i>		
Orion	R	Aug. 1910	Guns. 10—13·5-in. 13—4-in.		Ohio	R	May 1901	Guns. 4—12-in. 8—6-in.		Hizen	Oct. 1900	Guns. 4—12-in. 12—6-in.
Centurion ..	R	Nov. 1911	} 10—13·5-in. 12—4-in.		Connecticut ..	R	Sept. 1904	} 12—13-pr. 4—12-in. 8—8-in. 12—7-in. 8—12-in.		Mikasa	Nov. 1900	} 4—12-in. 14—6-in. 4—12-in. 4—10-in. 12—6-in.
King George V.	C	Oct. 1911			Kansas	R	Aug. 1905			Shikishima ..	Nov. 1898	
Conqueror ..	a R	May 1911			Minnesota ..	R	Apr. 1905			*Asahi	Mar. 1899	
Monarch	R	Mar. 1911			South Carolina ..	R	July 1908			Katori	July 1905	
Thunderer ..	a R	Feb. 1911			Michigan	R	May 1908			Kashima	Mar. 1905	
Marlborough ..	P	Oct. 1912	10—13·5-in. 12—6-in.		North Dakota ..	C	Nov. 1908	10—12-in. 14—5-in.		Satsuma	Nov. 1906	4—12-in.
Iron Duke ..	C	Oct. 1912	10—13·5-in. 12—4-in.		Utah	C	Dec. 1909	10—12-in. 16—5-in.		Aki	April 1907	12—10-in.
Ajax	R	Mar. 1912	12—4-in.							†Seltsu	Mar. 1911	12—12-in. 10—6-in.
Queen Elizabeth ..	C	Oct. 1913	8—15-in.		Delaware	C	Feb. 1909	10—12-in.		Fuso	Mar. 1914	12—14-in.
Warspite	C	Nov. 1913	12—6-in.		Florida	C	May 1910	14—5-in.		Tamashiro ..	Nov. 1915	16—6-in.
Benbow	C	Nov. 1913	10—13·5-in.		Wyoming	C	May 1911	12—12-in.		†Ise	Nov. 1916	12—14-in.
Emperor of India ..	C	Nov. 1913	12—6-in.		Arkansas	C	Jan. 1911	16—5-in.		Hyuga	Jan. 1917	20—5·5-in.
Erin	R	Sept. 1913	10—13·5-in. 16—6-in.		New York	C	Oct. 1912	10—14-in.		Nagato	Nov. 1919	8—16-in. 20—5·5-in.
Royal Oak	C	Nov. 1914	8—15-in. 14—6-in.		Texas	C	May 1912	16—5-in.				
Valiant	C	Nov. 1914	8—15-in.		Oklahoma	C	Mar. 1914	10—14-in.				
Barham	C	Dec. 1914	12—6-in.		Nevada	C	July 1914	12—5-in.				
Royal Sovereign ..	R	Apr. 1915	} 8—15-in. 14—6-in.		Arizona	C	June 1915	12—14-in.				
Revenge	C	May 1915			Pennsylvania ..	C	Mar. 1915	14—5-in.				
Resolution	C	Jan. 1915			Idaho	C	June 1917	12—14-in.				
Malaya	C	Mar. 1915			New Mexico ..	C	Apr. 1917	14—5-in.				
					Mississippi ..	C	Jan. 1917	12—14-in.				
Ramillies	C	Sept. 1916	12—6-in. 8—15-in. 14—6-in.		California	C	Nov. 1919	14—5-in.				
					Tennessee ..	C	Apr. 1919	8—16-in.				
					Maryland	C	Mar. 1920	14—5-in.				

BRITISH (November 1921).				UNITED STATES OF AMERICA.				JAPAN.		
—	—	Date of Launch.	Armament.	—	—	Date of Launch.	Armament.	—	Date of Launch.	Armament.
<i>Battle Cruisers.</i>				<i>Battle Cruisers.</i>				<i>Battle Cruisers.</i>		
Lion ..	.. R	Aug. 1910	} Guns. 8—13·5-in. 15—4-in. 8—12-in. 10—4-in.	Nil.				*Ikoma ..	.. Apr. 1906	} Guns. 4—12-in. 10—6-in. 4—12-in. 8—8-in.
Princess Royal ..	.. a R	Apr. 1911						Ibuki ..	.. Nov. 1907	
New Zealand ..	.. Ø P	July 1911						Kurama ..	.. Oct. 1907	
Tiger ..	.. R	Dec. 1913	} 8—13·5-in. 12—6-in. 6—15-in. 17—4-in.					Kongo ..	.. May 1912	} 8—14-in. 16—6-in.
Renown ..	.. C	Mar. 1916						Hiyei ..	.. Nov. 1912	
Repulse ..	.. C	Jan. 1916						Kirishima ..	.. Dec. 1913	
Hood ..	.. C	Aug. 1918						Haruma ..	.. Dec. 1913	

C denotes full commission.
 R „ reserve or reduced.
 P „ paid off.
 Ø „ suspense list.
 a „ has one additional 4-in.

* Attached to School. † Refitting.
Reserves.—There are no ships in “reserve” as we understand the term. Ships are either in commission in the sea-going fleets, or are at home ports with full crews on board and ready for sea at short notice.

APPENDIX (E1).

Admiralty Memorandum on "Manning" the Fleet.

The dominating factor in settling the numbers of officers and men required to be borne is the size of the War Fleet, which is the list of actual ships allocated for carrying out the responsibilities of the Admiralty in the event of war.

The Fleet is actually maintained in Peace on a different basis from what is required in War. In War, all the ships must be completed to full crews—either by Active Service ratings or with a proportion of Naval Reserves entered on mobilisation, according to the purpose for which and the urgency with which the particular vessel would be required in case of emergency. In Peace, only a certain portion of the total War Fleet is kept in full commission, and the remainder are on reduced bases differing in status according to their position in the War Fleet.

The following table shows the differences of status which exist in Peace in their relation to the War Fleet:—

<i>Status in Peace.</i>	<i>Status in War.</i>
(i.) Full crews active service.	(i.) Full crews active service.
(ii.) Half crews "	(ii.) " "
(iii.) In reserve, crews varying from one-fifth to one-tenth of full numbers.	(iii.) Two-fifths crews active service, balance naval reserves entered on mobilisation.
(iv.) Harbour establishments, schools, barracks, &c., permanent complements, instructors, experimental parties and care of establishments.	(iv.) Harbour establishments reduced in varying degrees, on account of certain duties which lapse in war.

It is obvious that the difference between Peace and War for (ii) and (iii) above and the whole of (iv) in Peace will be in harbour or on shore in Peace time, yet none could be dispensed with without prejudicing their ultimate disposal in War time.

The difference between Peace and War for (ii) and (iii) provides a working margin for the Fleet during Peace. Men must be passed through the Training Schools, travel to and from Foreign Stations and have leave, and there must always be a margin for sickness. For instance, the relief of crews on Foreign Stations entails a working margin of 3,000, which is found out of the difference between Peace and War requirements for (ii) and (iii).

It does not follow that a reduction in the numbers of ships in "full commission" would necessarily reduce the numbers of Naval personnel. It depends to what status the ships would be reduced, and this must depend on the purpose for which and the urgency with which the particular vessels would be required in case of emergency.

If, in the event of an emergency, the reduced ships have to be restored to commission with full active service crews, obviously the crews would have to be kept available, and therefore there could not be any reduction.

If ships reduced from "full commission" were scrapped and sold out of the Service, there would then be a reduction in personnel equal to the requirements of the scrapped ships.

Intermediately between the above two situations in dealing with a paid-off ship, there are an indefinite number of positions at which the status of such paid-off ships could be fixed, each producing a different result on the personnel.

APPENDIX (E 2).

TABLE showing Details of Manning Requirements of Fleets of 1914/15 and 1921/22.

(NOTE.—The numbers of ships shown and their requirements of personnel give the figures on which the Navy Estimates of the respective years were based. These figures given below could only be arrived at on the last day of the Financial Year, and therefore would not necessarily coincide with similar figures made out for any period earlier in the Financial Year.)

	Full Complements.			Second Fleet (1914/15). Tenders, &c. (1921/22).			Reserve.			Total.			Additional Nos. to make up Active Service War Nos.		
	Nos. of Ships.	Nos. of Officers.	Nos. of Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.
Battleships—															
1914/15	35	1,800	25,950	12	300	4,850	16	100	1,550	63	2,200	31,850	..	500	5,800
1921/22	13	900	15,650	1	50	650	9	150	2,850	23	1,100	19,150	..	200	3,200
Battle Cruisers—															
1914/15	9	450	7,600	..	..	..	..	..	..	9	450	7,600	..	..	..
1921/22	3	200	3,950	..	..	..	2	50	900	5	250	4,850	..	50	850
Cruisers—															
1914/15	11	400	7,750	16	350	4,400	19	150	1,800	46	900	13,950	..	250	5,300
1921/22	..	..	..	..	..	..	2	50	450	2	50	450	..	20	250
Light Cruisers—															
1914/15	34	600	10,300	13	150	2,200	15	100	1,000	62	850	13,500	..	150	2,600
1921/22	32	950	14,150	2	50	350	14	100	1,600	48	1,100	16,100	..	100	1,650
Torpedo Craft—															
1914/15	121	530	7,600	158	350	5,750	49	20	350	328	900	13,700	..	500	5,300
1921/22	93	700	10,600	52	150	2,400	68	150	1,000	213	1,000	14,000	..	50	3,300
Submarines—															
1914/15	82	300	1,500	..	..	..	..	..	..	82	300	1,500	..	..	..
1921/22	47	200	1,750	..	..	..	58	50	300	105	250	2,050	..	..	..
Depot and Repair Ship—															
1914/15	16	250	2,750	7	100	1,200	..	..	..	23	350	3,950	..	10	200
1921/22	14	200	3,400	..	..	..	5	100	700	19	300	4,100	..	20	550

	Full Complements.			Second Fleet (1914/15). Tenders, &c. (1921/22).			Reserve.			Total.			Additional Nos. to make up Active Service War Nos.		
	Nos. of Ships.	Nos. of Officers.	Nos. of Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.	Ships.	Officers.	Men.
Minelayers—															
1914/15	..	..	..	7	50	400	..	..	..	7	50	400	..	40	850
1921/22	..	..	..	5	25	250	..	..	..	5	25	250	..	10	250
Minesweepers—															
1914/15	16	50	950	..	..	..	..	..	..	16	50	950	..	..	..
1921/22	8	50	600	8	25	350	47	50	300	63	125	1,250	..	30	320
Surveying—															
1914/15	10	100	1,050	..	..	..	..	..	..	10	100	1,050	..	..	..
1921/22	10	100	1,000	..	..	..	..	..	..	10	100	1,000	..	..	..
Sloops and Gunboats—															
1914/15	24	100	1,500	..	..	..	..	..	..	24	100	1,500	..	..	..
1921/22	42	200	2,900	..	..	..	..	..	..	42	200	2,900	..	— 10	— 100
Special Service Vessels and Miscellaneous—															
1914/15	12	50	650	..	..	..	..	..	..	12	50	650	..	..	..
1921/22	81	150	1,450	2	50	550	..	..	..	83	200	2,000	..	— 50	— 650
Air Service—															
1914/15	..	100	1,300	..	..	..	..	..	..	..	100	1,300	..	..	..
1921/22	2	50	550	..	..	..	4	50	500	6	100	1,050	..	..	..
Retinues—															
1914/15	..	150	350	..	..	..	..	..	..	..	150	350	..	50	150
1921/22	..	300	750	..	..	..	..	..	..	..	300	750	..	20	150
Harbour Ships (Home)—															
1914/15	..	1,050	9,450	..	..	..	..	..	..	..	1,050	9,450	..	— 700	— 7,400
1921/22	..	1,400	9,300	..	..	..	..	..	..	..	1,400	9,300	..	— 50	— 950
Harbour Ships (Abroad)—															
1914/15	..	150	1,450	..	..	..	..	..	..	..	150	1,450	..	..	..
1921/22	..	150	1,750	..	..	..	..	..	..	..	150	1,750	..	10	130
Boys' Training—															
1914/15	..	..	7,900	..	..	..	..	..	..	..	..	7,900	..	..	..
1921/22	..	..	5,100	..	..	..	..	..	..	..	..	5,100	..	..	..
Coastguard—															
1914/15	..	300	2,800	..	..	..	..	..	..	..	300	2,800	..	..	— 1,100
1921/22	..	450	2,650	..	..	..	..	..	..	..	450	2,650	..	..	..
New Zealanders—															
1914/15	..	..	100	..	..	..	..	..	..	..	..	100	..	..	..
1921/22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Totals—															
1914/15	..	900	..	..	..	..	..	..	..	900	..	..	..	..	..
1921/22	..	700	..	..	..	..	..	..	..	700	..	..	..	..	..
Miscellaneous (Auxiliaries, &c., mostly war requirements only)—															
1914/15	..	1,100	1,000	..	..	..	..	..	..	1,100	1,000	..	100	5,500	
1921/22	..	600	2,600	..	..	..	..	..	..	600	2,600	..	450	4,150	
War Margin and excess of Peace over War—															
1914/15	..	..	..	..	..	..	..	..	..	..	..	..	300	6,900	
1921/22	..	..	..	..	..	..	..	..	..	..	..	..	900	7,150	
Totals { 1914/15	..	8,380	91,950	..	1,300	18,300	..	370	4,700	..	10,050	114,950	..	1,200	24,100
{ 1921/22	..	7,300	78,150	..	350	4,550	..	750	8,600	..	8,400	91,300	..	1,750	20,250

NOTES.

1. In 1914/15 the Coastguard was an Active Service force, of whom some embarked in ships on Mobilisation. Now it is a Pensioner force, and none embark.
2. Included in the "Margin, &c.," for 1921/22 are nearly 700 Officers who are surplus to present requirements, and who will eventually disappear.
3. The figures for 1914/15 are not exactly equal to the Vote of the period. The balance consisted of a round number of ratings taken in advance for training, covering all classes of new construction of which there is no record in detail.
There is a similar item in the 1921/22 figures for the new Capital Ships, but it is included under the head of "Battleships."
4. The "Air Service" in 1914/15 included 1,000 air ratings. In 1921/22 the figure is all for aircraft carriers.
5. As regards Harbour Establishments at home in 1914/15, nearly all the Schools, &c., were shut up on Mobilisation, their crews being drafted to sea. It was found necessary to reopen them during the war, and accordingly orders were issued, after the war, to keep all Schools, &c., open. Consequently, no one in the complements of these establishments would have been available for sea on Mobilisation. This rule was modified in 1921/22 Estimates to the extent of embarking 1,000 from these establishments. It has since been approved to embark, on Mobilisation, 3,500 from Harbour Complements.
6. The Section "Miscellaneous" in 1921/22 is not quite on the same lines as in 1914/15. A few tenders now shown as Miscellaneous were shown under "Harbour Ships" in 1914/15, but it would take a very long time to extract the details, which are mixed up with numerous establishments.

APPENDIX (F 1).

AUTHORISED RETINUES.

STAFFS and Retinues of the Commanders-in-Chief the Nore, Portsmouth, Plymouth, Coast of Scotland and Western Approaches.

Ranks and Ratings.	The Nore (Pembroke).	Portsmouth (Victory).	Plymouth (Impreg- nable).	Coast of Scotland (Crescent.)	Western Approaches (Colleen).
Chief of Staff	1	1	1	1	1
Maintenance Captain*	1*	1*	1*	1*	1*
War Staff Officer	1	1	1	1 ^d	1 ^d
W.S.O. for Intelligence (D.I.O.)	1	1	1	1	1
Assistant to D.I.O.	1	1	1	1 ^o	1
Assistance to Maintenance Captain (a Commander)	1	1	1	1	1 ⁱ
Flag Lieutenant-Commander or Flag Lieutenant	1	1	1	1	1 ^j
Physical and Recreational Training Officer	..	1 ^w	1 ^x	..	..
Lieutenant-Commander (S) or Lieutenant (S)	..	..	..	..	1 ^j
Lieutenant (G) (short course)	..	..	..	..	1 ^s
Surgeon-Captain or Commander (for Sanitation duties)	1	1	1	1 [†]	..
Surgeon Lieut.-Commander (D) or Surgeon Lieut. (D)	..	..	..	..	..
Royal Marine Officer on Staff	..	1	1	1	..
Secretary to C.-in-C.	1	1	1	1	1
Secretary to C.O.S.	1	1	1	1	1
Secretary to Maintenance Captain§	1	1	1	1	1
Engineer Rear Admiral	1	1	1	1	1
Assistant to Engineer Rear Admiral	1	1	1	1	1
Chief P.O. (Coxswain)	1 ^l	1	1	1	1
Petty Officer	3	4	3	2	3
Leading Seaman	..	..	1	..	1
A.B. or Ordinary Seaman	11	18	15	13	9 ^e
Telegraphist or Ordinary Telegraphist	..	..	3	..	..
Comm'd. Sig. Boatswain or Sig. Boatswain	..	..	1	..	..
Chief Yeoman of Signals	..	..	..	1	..
Yeoman of Signals	..	..	..	1	..
Leading Signaller or Signaller	..	..	..	2	..
Engineer Captain	1 ^m	..	..	..	..
Engineer Commander	1	1	..	..	..
Engineer Lieutenant or Lieutenant (E)	1	..	..	..	..
Commissioned or Warrant Engineer	2	3	..	..	1
Chief Engine Room Artificer	7 ^a	4 ^z	5 ^g	1	1
Engine Room Artificer	6	4	..	2	..
Stoker Petty Officer	10	9	4	3	3
Stoker	8	7	6	4	3
Shipwright	..	1	..	..	..
Joiner	1	..	1	1	1
Leading S.B.A. or S.B.A. (to assist Dental Officer)	..	..	..	1	..
Sick Berth Attendant (for Sanitation duties)	1	1	1	..	..
Secretary's Clerks	4	4	3	2	2 ^p
Chief or First Writer	4	4	3	4	1
Second Writer	4 ^{aa}	5 ^{aa}	4 ^{aa}	4 ^{aa}	2 ^p
First Writer for Engineer Rear Admiral	1	1	1	1 ^q	1
Leading Cook	..	..	..	1	..
Officer's Steward 2nd class for Flag Lt.-Cdr. or Lieut.	1	..	..	..	..
Sergeant R.M.	..	..	..	1	..
Corporal R.M.	2	1	..	1	..
Privates R.M.L.I.	8 ^v	3	2	5	..
Marines as Printers	3	3	3	3 ^r	2
Private or Gunner as Servant to Major R.M.	1 ^k	1	1	..	..
Commissioned or Warrant Bandmaster	1	1	1	1	..
Band Colour-Sergeant	..	..	..	..	1
Band Corporal	1	1	1	1	1
Musicians	11	11	11	11	11
Vice or Rear Admiral (Admiral Superintendent)	1	1	1	1	..
C.P.O. (Coxswain)	1	1	1	1	..
Petty Officer	1	1	1	1	..
A.B.	4	4	4	4	..
Stoker Petty Officer	1	1	1	1	..
Stoker	1	1	1	1	..
Shipwright	1	1	1	1	..
Captain (for Coastguard duties)	1	1	1	1	1
Paymaster Captain or Paymaster Commander	1	1	1	1	1
Paymaster Lieutenant	1	1	1	..	1
Chief Writer	1	1	1	1	1
First Writer	..	..	..	..	..
Third Writer	1	1	1	..	1
P.O. (Coxswain)	1	1	1	1	1
	123†	119† ^g	102†	96††	64† ^{af}

* 1 officer will be appointed for the dual duty of C.O.S. and Maintenance Captain in Peace.

† 1 Civilian Clerk in addition for duty with Captain for C.G. duties. (A Chief or First Writer will be lent to Queenstown in lieu temporarily.)

‡ A Surgeon Commander (as N.M.T.O. and for Staff duties), and 1 Leading S.B.A. as assistant, in addition temporarily. (During appointment of present holder—August 1923.)

§ Secretary to C.O.S. in his capacity of Maintenance Captain in Peace and to actual Maintenance Captain in War.

|| 1 Dockyard Labourer, 1 Dental Mechanic and 1 Assistant Dental Mechanic (Civilians) in addition.

¶ Including the following Engineer Officers and ratings for Recording Duties, all of whom are "available" on mobilisation:—

At Chatham: 1 Engineer Commander, 2 Warrant Engineers, 3 C.E.R.A., 5 E.R.A. and 6 S.P.O.

At Portsmouth: 1 Engineer Commander, 2 Warrant Engineers, 4 E.R.A. and 6 S.P.O.

• Engineer Officers and ratings for Recording Duties in Plymouth Command are included in Permanent Supernumeraries of *Vivid*.

• Admiral Superintendent, Devonport, and Retinue, and Captain for C.G. Duties and Staff, are borne in *Vivid*.

• Commander in lieu.

• 1 may be E.R.A.

• And in command of H.M.S. *Colleen*.

• Only 1 Officer will be appointed for the dual duties of Flag Lieutenant and Signal Officer under normal conditions.

• May be Pensioner temporarily.

• An additional Assistant to D.I.O. is also allowed temporarily.

• 1 Secretary's Clerk and 2 Second Writers in addition temporarily.

• Includes 1 Acting Sergeant and 1 Corporal.

• 1 Royal Marine is allowed in addition temporarily as Messenger to Captain for C.G. duties.

• Borne in *Victory* for R.N. Barracks.

• 1 O.S.I. in addition, while C.-in-C. Portsmouth, is also Admiralty Representative to League of Nations.

• 1 may be other rating.

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APPENDIX (F 2).

EXPENSES Attendant on the Five Commanders-in-Chief on Shore at Home.

	The Nore.	Portsmouth.	Plymouth.	Coast of Scotland.	Western Approaches.
Commander-in-Chief—	£	£	£	£	£
Full pay	2,555	2,555	2,555	2,555	2,190
Table money	2,464	2,464	2,464	2,464	2,464
Servants' allowance	525*	750	450*	750	375
Provision allowance	80	80	80	80	80
	5,624	5,849	5,549	5,849	5,109
Staff—	(19 officers)	(21 officers)	19 officers)	(16 officers)	(22 officers)†
Full pay	12,757	15,202	12,948	11,278	11,698
Command money	128	128	128	128	128
Entertaining allowance	91	91	91	91	91
Secretary's allowance	255	255	255	255	255
Provision allowances	1,520	1,680	1,520	1,200	1,680
Lodging allowances	1,360	1,500	1,440	1,080	1,520
Servants' allowances	777	880	807	630	821
Interpreter's allowance	..	..	37	37	..
Gunnery allowance	..	..	..	..	18
	16,888	19,736	17,226	14,699	16,211
Retinue (excluding officers) (a)—					
Wages	9,068	11,611	8,910	7,343	4,994
Extra pay	72	40	40	67	28
Kit upkeep allowance	650	988	710	630	347
Provision allowances	3,424	5,475	4,339	3,554	1,173
Lodging allowances	255	382	288	318	219
Grog money	19	Nil	Nil	Nil	38
Marriage allowances (b) ..	3,600	3,400	2,880	2,700	1,800
	17,088	21,896	17,167	14,612	8,599
Miscellaneous expenses—					
Wages of messengers, cleaners, &c., and other office expenses ..	1,500	3,200	2,381	2,100	2,183
Motor car (c)—					
Wages	(d)	174	366	428	.. (d)
Running expenses	96	140	378	214	194
Repairs	92	162	302	192	228
	188	476	1,046	834	422
Steamboats (e)—					
Coal and stores	300	300	300	300	300
Repairs, &c.	500	550	600	320	900
	800	880	900	620	1,200
Commander-in-Chief's establishment—					
Repairs and maintenance (Vote 10)	377	491	669	564	309
Water	29	23	37	28	58
Gas	..	..	50	..	..
Maintenance of furniture in the official residences of Commander-in-Chief and staff (Vote 8) ..	190	300	250	130	90
	596	814	1,006	722	457
	42,684	52,851	45,275	39,436	34,181

* Some servants are also supplied in addition to this allowance.

† These are swollen at present because of work connected with disturbed state of Ireland.

(a.) Numbers borne and on which figures have been calculated: The Nore, 76; Portsmouth, 82; Plymouth, 69; Coast of Scotland, 62; Western Approaches, 40. Numbers allowed by complement: The Nore, 89; Portsmouth, 84; Plymouth, 71; Coast of Scotland, 67; Western Approaches, 42.

(b.) At rates current until March 31, 1922.

(c.) Based on expenditure for first half of the financial year, 1921/22.

(d.) Driven by naval ratings—wages, &c., included above under retinue.

(e.) Manned by naval ratings—wages, &c., included above under retinue.

Statistics Department, Admiralty.
November 7, 1921.

APPENDIX (F 3).

ANNUAL VALUES OF OFFICIAL RESIDENCES.

THE annual values of the Official Residences occupied by the Commanders-in-Chief of the Home Ports and their Secretaries, as declared for assessment of Income Tax, are as follows.

	The Nore.	Portsmouth.	Plymouth.	Coast of Scotland.	Western Approaches.
	£	£	£	£	£
Commander-in-Chief	350	345	220*	200	227†
Secretary	65	65	75	60	53‡
Total	415	410	295	260	280

* £200 house plus £20 garden.

† £200 house plus £27 garden.

‡ £46 house plus £7 land.

APPENDIX (G).

SHORE Establishments at Home and Abroad (excluding Dockyards and Armament and other Depots).

	1914/15.				1922/23.			
	Peace Comple- ments.		Numbers available on Mobilization.		Peace Comple- ments.		Numbers available on Mobilization.	
	Officers.	Naval Ratings.	Officers.	Naval Ratings.	Officers.	Naval Ratings.	Officers.	Naval Ratings.
Portsmouth	283	2,203	153	1,173	421	2,891	..	..
Portland	5	45	1	1	65	523	..	..
Devonport	290	2,188	139	1,215	272	2,111	..	..
Queenstown	2	25	2	1	15	79	..	..
Chatham-Sheerness	170	1,243	78	684	200	1,300	..	..
Harwich	63	436	52	405	72	377	..	..
Scotland	13	144	..	1	89	940	..	..
Total home	826	6,284	425	3,480	1,134	8,221	..	..
Total abroad	82	1,231	..	..	91	1,307	..	..
Total harbour establish- ments	908	7,515	425	3,480	1,225	9,528	..	..
Educational establishments ..	104	416	76	406	109	258	..	..
Hospitals for general service	87	589	3	224	111	601	..	..
R.N. detention quarters ..	3	37	3	25	6	36	..	..
Grand total	1,102	8,557	507	4,135	1,451	10,423	..	..
	9,659		4,642		11,874			

APPENDIX (H.)

MECHANICAL TRANSPORT.

NUMBER of Mechanical Transport Vehicles of each Type on the Establishment of the Navy.

	Steam-driven Road Vehicles.	Lorries.	Light Tenders.	Light Vans.	Cars.	Ambulances.	Cycles.
1921/22.							
<i>Great Britain—</i>							
Headquarters ..	..	9	4	6	4	2	1
All Commands ..	40	194	34	38	40	44	6
<i>Ireland</i> ..	..	1	..	2	4	..	..
<i>India</i> ..	..	..	..	..	..	..	..
<i>Oversea Stations—</i>							
Abadan ..	..	..	..	..	1	..	..
Aden ..	..	..	..	..	1	..	..
Azores ..	..	..	..	..	1	..	..
Bermuda ..	..	2	2	1	..	1	..
Cape ..	..	6	..	..	..	..	..
Gibraltar ..	..	6	1	..	..	1	..
Jamaica ..	..	..	..	1	..	..	2
Malta ..	..	8	1	2	4	..	..
Matara ..	..	..	..	..	1	..	..
Mauritius ..	..	..	..	..	1	..	..
Newfoundland ..	..	..	..	..	1	..	..
Singapore ..	..	..	..	..	2	..	..
<i>Special Service—</i>							
Berlin ..	..	..	..	..	13	..	2
Belgrade ..	..	..	..	..	1	..	..
Paris ..	..	..	..	..	1	..	..
Total 1921/22 ..	40	226	42	50	75	48	11
Total 1914* ..	8	3	..	..	..	..	..

* All in Home Commands.

APPENDIX (J).

DETAILS OF VOTE 9. NAVAL ARMAMENTS.

	Estimates.		New Programme (these figures are included in Estimates Column).	
	1921/22.	1922/23.	1921/22.	1922/23
Naval armament, &c., establishments at home and abroad—	£	£	£	£
A.—Salaries and allowances	240,467	210,000	..	..
B.—Wages of artificers, &c. .. .	1,552,600	1,342,980	..	30,000
C.—Wages of crews of naval armament vessels	58,600	49,000	..	..
D.—Wages, &c., of police force .. .	125,042	115,000	..	..
E.—Medical attendance, rents, water, gas, &c., and contingencies	47,919	46,000	..	..
	2,024,628	1,762,980	..	..
Naval armament stores—				
F.—Guns	767,150	1,148,550	160,000	810,000
G.—Projectiles and ammunition .. .	1,904,290	1,883,220	..	187,750
H.—Torpedoes and guncotton .. .	253,450	177,500	..	..
I.—Fuel, oil, stores, &c., for maintenance of depôts and factories. Materials for manu- facture of cordite and torpedoes. Ammu- nition cases, &c. Purchase of rifles, maintenance of N.A. Vessels, &c. ..	783,450	938,700	..	214,200
K.—Inspection proof experiments, &c. ..	948,999	915,500	40,000	..
L.—Freight and incidental charges .. .	287,350	201,000	..	..
	4,944,689	5,264,470	..	..
Gross total	6,969,317	7,027,450	200,000	1,241,950
Deduct—				
M.—Appropriations-in-aid	43,317	44,450	..	..
	*6,926,000	6,983,000 300,000†	..	1,241,950 100,000†
Net total	..	6,683,000	..	1,141,950

* The figure £6,926,000 does not include the further allocation of £200,000 for ships of new programme.

† Cut by the Board of Admiralty—allocation over subheads not definitely settled.