

FOR OFFICIAL USE ONLY

Not to be communicated to anyone outside H.M. Service

ADMIRALTY FLEET ORDER
BALLISTICS—LIST OF CURRENT RANGE TABLES, FUZE
SCALES AND TRAJECTORY CHARTS, AND TABLES
FOR SPECIAL SERVICES

ADMIRALTY, S.W.1,

14th January, 1943

The following Order having been approved by My Lords Commissioners of the Admiralty is hereby promulgated for information and guidance and necessary action.

By Command of their Lordships,

H. V. Markham

To all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.

NOTE:—The scale of distribution is shown in the Admiralty Fleet Order Volume, 1941, Instructions, paragraph 10.

Head of "P" Branch

- (a) The range table, fuze scale, and trajectory chart, to be distributed to all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.
- (b) The range table, fuze scale, and trajectory chart, to be distributed to all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.
- (c) The range table, fuze scale, and trajectory chart, to be distributed to all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.
- (d) The range table, fuze scale, and trajectory chart, to be distributed to all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.
- (e) The range table, fuze scale, and trajectory chart, to be distributed to all Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.

230.—Ballistics—List of Current Range Tables, Fuze Scales and Trajectory Charts, and Tables for Special Services

(G.8794/42.—14.1.1943.)

The following list shows all current range tables, fuze scales and trajectory charts issued to date, and supersedes the lists given in A.F.O. 516/42. No range tables bearing C.B. numbers are at present in existence.

2. A certain number of the tables in the list have been superseded, but are retained on account of the gunsights graduated to them.

3. For information and record only a supplementary list is given of additional range tables and fuze scales required for guns held in reserve for special services. This list includes some tables which appear also in the main list, but no general issue of special services tables as such will be made. A list of range tables applicable to American guns used in the British Service is shown on pages 38—39. No general issue of these tables is being made.

4. Column 10 gives references to all amending A.F.Os. issued which, together with the additional and revised pages mentioned in Appendix B will bring up to date the original issue of the tables. From time to time tables are reprinted to replenish stocks, and have embodied in them all amendments to date. In such reprints, therefore, some or all of the amendments referred to in col. 10 may already be incorporated.

5. Seven appendices are added, viz. :—

Appendix A.—List of Tables whose serial numbers have been altered.

Appendix B.—List of additional and revised pages printed after the original issue of tables.

Appendix C.—List of Tables removed from last Current List.

Appendix D.—O.U. numbers and letters allotted for the subguards and tables.

Appendix E.—List, in numerical order, of serial numbers of current range tables, fuze scales, trajectory charts, and tables for special services.

Appendix F.—Establishments authorised for all tables.

Appendix G.—List of Tables applicable to gun mountings held in reserve abroad.

All copies of tables listed in Appendix C should be destroyed in accordance with instructions in Form O.U. 2A—O.U. Catalogue.

6. The particulars in Appendix B are not always applicable to reprints of tables issued subsequent to the printing of the new pages. Such reprints, being corrected to date, may have different pagination from the original issue. The cancellation of pages or sections referred to in col. 5 of Appendix B implies the cancellation of all amendments thereto.

7. Range tables, fuze scales and trajectory charts are supplied on a basis of one copy per mounting for the gun mountings maintained at stations abroad as reserves. Each set of tables is to consist of the following :—

- (a) The range table appropriate to gun sight graduations.
- (b) The range and elevation scale to which the gun sight is graduated.
- (c) Fuze scale, only if time fuze ammunition is available.
- (d) Star Shell Range Table, only if star shell is available.
- (e) Trajectory Chart, for high angle mountings only.

A list is given in Appendix G of the tables, etc., applicable to each calibre and mark of mounting concerned. These tables are to be held at the Dockyards and kept with the relevant mounting ready for issue when required.

8. Demands for copies of tables, if allowed by establishment and not on board ships, should be forwarded to the Superintendent, R.N. Store Dépôt, Elveden Road, N.W.10.

9. Attention is drawn to the established allowances shown in Appendix F. Tables held surplus to these establishments should be returned to the Superintendent, R.N. Store Dépôt, Elveden Road, N.W.10.

PUBLICATIONS

concerning compilation of Range Tables, and on Ballistics included in the O.U. 6090 Series.

No. and Title.	Amending A.F.Os.
† O.U. 6090 (A)/1935, Range Tables, Introduction ...	P.436/39, P.39/40, P.80/42, P.176/42, P.500/42.
† O.U. 6090 (A) (1)/1935, Notes on Ballistics, with Addendum No. 1.	P.62/37, P.40/40, P.81/42, P.177/42, P.549/42.

† See Appendix F, para. 3 (Special Establishments).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

230

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Agrees with Table No. (8)	No. of Super- seding Table, if any. (9)	Amending A.F.Os. (10)	Remarks. (11)	
			Weight. (4)	C.r.h. (5)							
B.L. 16-in. Mark I. O.U. 6090 (U).	* 193	R.T.	lb. oz. 2,048 0	6	Full	f.s. 2525	—	—	—		
	194	R. & E.	" "	"	"	2650/2350	193	—	—		
	195	R. & T.	" "	"	"	2650/2350	193	—	—		
	224	H.T.C.T.	" "	"	"	2525	193	—	—		
	* 199	R.T.	" "	"	Reduced	1950	—	—	P.602/42		
	200	R. & E.	" "	"	"	2000/1700	199	—	—		
	201	R. & T.	" "	"	"	2000/1700	199	—	—		
	225	H.T.C.T.	" "	"	"	1950	199	—	—		
	B.L. 16-in. Marks II and III. O.U. 6090 (U).	451	R.T.			Full		—	—		} Not yet issued.
		452	R. & E.			"		451	—		
453		R. & T.			"		451	—			
491		R.T.			Full		—	—			
492		R. & E.			"		491	—			
493		R. & T.			"		491	—			
454		R.T.			Reduced		—	—			
455		R. & E.			"		454	—			
456		R. & T.			"		454	—			

4

(61008) B.L. 15-in. Mark I. O.U. 6090 (D).	505	R.T.	1,938 0	6	Super	2575	—	—	P.383/42
	506	R. & E.	" "	"	"	2700/2400	505	—	—
	507	R. & T.	" "	"	"	2700/2400	505	—	—
	508	R.T.	" "	"	Three-quarter Super	2150	—	—	P.384/42
	509	R. & E.	" "	"	"	2250/2000	508	—	—
	510	R. & T.	" "	"	"	2250/2000	508	—	—
	*381	R.T.	" "	"	Full	2400	—	—	P.298/37, P.434/37
	382	R. & E.	" "	"	"	2500/2300	381	—	—
	383	R. & T.	" "	"	"	2500/2300	381	—	—
	384	R.T.	" "	"	Three-quarter	2000	—	—	P.194/37, P.14/41
	385	R. & E.	" "	"	"	2100/1900	384	—	P.194/37
	386	R. & T.	" "	"	"	2100/1900	384	—	—
	512	R.T.	1,920 0	4	Super	2575	—	—	P.385/42
	513	R. & E.	" "	"	"	2700/2400	512	—	—
	514	R. & T.	" "	"	"	2700/2400	512	—	—
	516	R.T.	" "	"	Three-quarter Super	2150	—	—	P.223/42, P.386/42
	517	R. & E.	" "	"	"	2250/2000	516	—	—
	518	R. & T.	" "	"	"	2250/2000	516	—	—
	* 226	R.T.	" "	"	Full	2400	—	—	P.419/38, P.11/41,
	227	R. & E.	" "	"	"	2450/2300	226	—	P.858/41
228	R. & T.	" "	"	"	2450/2300	226	—	P.419/38	
229	H.T.C.T.	" "	"	"	2400	226	—	P.419/38	
2c	F.S.	" "	"	"	2450	4	—	P.65/37	

5

Shrapnel, Fuze No 93.

* See Appendix B (new pages).

230

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
B.L. 15-in. Mark I. O.U. 6090 (D). —contd.	4	R.T.	lb. oz.			f.s.				
	38	R. & E.	1,920 0	4	Full	2450	—	226	P.419/38	
	* 261	R.T.	" "	"	"	2500/2300	4	—	P.194/37, P.419/38	
	262	R. & E.	" "	"	Three-quarter	2025	—	—	P.419/38, P.526/38	
	263	R. & T.	" "	"	"	2100/1900	261	—	P.12/41	
	298	H.T.C.T.	" "	"	"	2100/1900	261	—	P.419/38	
	5	R.T.	" "	"	"	2000	—	—	—	
	39	R. & E.	" "	"	"	2025	—	261	P.419/38	
						2100/1900	5	262	—	
	37	R.T.	" "	"	Half	1550	—	—	P.419/38, P.10/41	

(66819) B.L. 14-in. Mark VII. O.U. 6090 (Y).	*415	R.T.	1,590 0	6	Full	2400	—	—	P.561/42, P.604/42	
	416	R. & E.	" "	"	"	2500/2300	415	—	—	
	417	R. & T.	" "	"	"	2500/2300	415	—	—	
	*419	R.T.	" "	"	Reduced	2000	—	—	P.35/41, P.269/42	
	420	R. & E.	" "	"	"	2100/1900	419	—	—	
	421	R. & T.	" "	"	"	2100 1900	419	—	—	
	322	"	"	"	"	"	"	"	"	
	323	"	"	"	"	"	"	"	"	
	324	"	"	"	"	"	"	"	"	
	325	"	"	"	"	"	"	"	"	

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

230

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
B.L. 8-in. Mark VIII. O.U. 6090 (W).	* 206	R.T.	lb. oz. 256 0	6	Full	f.s. 2725	—	—	P.381/40, P.33/41. P.537/41,P.819/41, P.125/42, P.470/42	
	207	R. & E.	" "	"	"	2850/2500	206	—	—	
	208	R. & T.	" "	"	"	2850/2500	206	—	—	
	222	H.T.C.T.	" "	"	"	2725	206	—	—	
	* 322A	E.F.C., Wear and M.V.	" "	"	Full and Three- quarter	—	—	—	—	
	* 209	R.T.	" "	"	Three- quarter	2200	—	—	P.382/40,P.520/40, P.538/41,P.820/41, P.126/42, P.471/42	
	210	R. & E.	" "	"	"	2350/2000	209	—	—	
	211	R. & T.	" "	"	"	2350/2000	209	—	—	
	223	H.T.C.T.	" "	"	"	2200	209	—	—	
	*446	H.A.R.T. }	" "	"	"	2725	—	446B	P.786/41, P.127/42	Fuze Nos. 206, 207, 211 and 401, Mk.II.
	446B	" T.C. }	" "	"	"	2725	—	—	—	
	O.B.88 O.B.88A	" T.C. }	" "	"	"	2725	—	—	—	
	374 O.C. 62	H.A.F.S. } G.F.S. }	" "	"	"	2725	—	—	P.328/39	Fuze No. 400, Mk. I.

8

B.L. 7.5-in. Mark VI. O.U. 6090 (H).	*264	R.T.	200 0	4	Full	2700	—	—	P.329/38, P.422/38	
	265	R. & E.	" "	"	"	2800/2550	264	—	—	
	266	R. & T.	" "	"	"	2800/2550	264	—	—	
	112	R.T.	" "	"	"	2700	—	264	P.422/38	
	118	R. & E.	" "	"	Full and Reduced	2950/2150	116	265 and 291	—	
	*290	R.T.	" "	"	Reduced	2200	—	—	P.422/38	
	291	R. & E.	" "	"	"	2350/2050	290	—	P.422/38	
	292	R. & T.	" "	"	"	2350/2050	290	—	—	
	116	R.T.	" "	"	"	2200	—	290	P.422/38	
	310	H.P.L.	" "	"	"	2700/2500	—	—	—	
	320	H.P.L.	" "	"	"	2700/2500	—	—	—	
	330	H.P.L.	" "	"	"	2700/2500	—	—	—	
	340	H.P.L.	" "	"	"	2700/2500	—	—	—	
	350	H.P.L.	" "	"	"	2700/2500	—	—	—	

9

* See Appendix B (new pages).

230

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
B.L. 6-in. Mark VII. O.U. 6090 (J).	528	R.T.	lb. oz.			f.s.				
	530	R. & E.	100 0	6	Full	2700	—	—	P.240/42	
	531	R. & T.	" "	"	"	2850/2550	528	—	—	
				" "	"	2850/2550	528	—	—	
	191	R. & E.	" "	"	"	3000/2700	—	530	—	
	204	R. & E.	" "	"	Reduced	2250/1900	—	—	—	Will shortly be superseded.
	*271	R.T.	" "	4	Full	2725	—	—	P.423/38, P.12/42, P.599/42, P.296/39	
	239	R. & E.	101 14	"	"	2850/2500	—	—	—	
	240	R. & T.	" "	"	"	2850/2500	—	—	—	
	*333	F.S.	100 0	"	"	2725	270	—	P.423/38	Shrapnel, Fuze No. 93.
	*334	F.S.	" "	"	"	2725	26D	—	P.423/38	Shrapnel, Fuze No 93.
	26D	R. & E.	" "	"	"	2800/2450	—	239	P.423/38, P.297/39	
	270	R. & E.	" "	"	Full and Reduced	3000/1800	—	26D and 28	—	
	*272	R.T.	" "	"	Two-thirds.	1950	—	—	P.196/37	
	242	R. & E.	" "	"	"	2150/1900	—	—	—	
243	R. & T.	" "	"	"	2150/1900	—	—	—		
237	R. & E.	" "	"	"	2125/2000	—	28	—	See footnote, Appendix A, p. 48.	
28	R. & E.	" "	"	"	2125/1700	—	242	P.423/38, P.294/39		

B.L. 6-in. Mark VII. O.U. 6090 (J). Field Gun ...	*† 302 With Wind Correction Graph.	R.T.	100 0	4	Full	2725	239	—	—	
B.L. 6-in. Mark XII. O.U. 6090 (J).	520	R.T.	100 0	6	Super	3000	—	—	—	
	521	R. & E.	" "	"	"	3100/2800	520	—	—	
	522	R. & T.	" "	"	"	3100/2800	520	—	—	
	537	R.T.	" "	"	Two-thirds super	2275	—	—	—	
	538	R. & E.	" "	"	"	2400/2050	537	—	—	
	539	R. & T.	" "	"	"	2400/2050	537	—	—	
	529	R.T.	" "	"	Full	2750	—	—	—	
	530	R. & E.	" "	"	"	2850/2550	529	—	—	
	531	R. & T.	" "	"	"	2850/2550	529	—	—	
	204	R. & E.	" "	"	Reduced	2250/1900	—	—	—	Will shortly be superseded.
	534	R.T.	" "	4	Super	3000	—	—	P.521/42	
	535	R. & E.	" "	"	"	3100/2800	534	—	—	
	536	R. & T.	" "	"	"	3100/2800	534	—	—	
(i)	*238	R.T.	101 14	"	Full	2750	—	—	P.423/38, P.501/42	(ii)
	239	R. & E.	" "	"	"	2850/2500	238	—	P.296/39	
	240	R. & T.	" "	"	"	2850/2500	238	—	—	
	304	H.T.C.T.	" "	"	"	2750	238	—	—	

* See Appendix B (new pages).

† See Appendix F, para. 3 (Special Establishments).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			lb. oz.			f.s.				
B.L. 6-in. Mark XII. O.U. 6090 (J). —contd.	* 24A	R.T.	100 0	4	Full	2750	—	238	P.423/38	
	273	R. & E.	" "	"	"	2900/2500	24A up to 15°	26D	—	
	26D	R. & E.	" "	"	"	2800/2450	24A	239	P.423/38, P.297/39	
	* 241	R.T.	" "	"	Two-thirds.	2075	—	—	P.423/38	
	242	R. & E.	" "	"	"	2150/1900	241	—	—	
	243	R. & T.	" "	"	"	2150/1900	241	—	—	
	305	H.T.C.T.	" "	"	"	2075	241	—	—	
	* 25A	R.T.	" "	"	"	2075	—	241	P.423/38, P.409/39	
	237	R. & E.	" "	"	"	2125/2000	25A up to 15°	28	—	See footnote, Appendix A, p. 48.
	28	R. & E.	" "	"	"	2125/1700	25A	242	P.423/38, P.294/39	
	377	H.A.F.S. }		" "	"	Full	2750	—	—	Fuze No. 400, Mk. I.
	O.C. 65	G.F.S. }		" "	"				P.68/37, P.221/39	

397	R.T.	100 0	4	Bombardment, No. 2	1230	—	—	P.195/40, P.503/42	For H.E. shell, fuzed No. 45, Smoke shell, fuzed No. 117 or 118, and Chemical Bursting, fuzed No. 118.
398	R.T.	" "	"	Bombardment, No. 1	910	—	—	P.196/40, P.504/42	
473	Equivalent Ranges.	—	—	—	—	—	—	P.505/42	For use in conjunction with Tables 474, 475 and 476.
474	R.T.	104 4½	4	Reduced	2039	—	—	P.506/42	
475	R.T.	" "	"	Bombardment, No. 2	1209	—	—	P.507/42	
476	R.T.	" "	"	Bombardment, No. 1	895	—	—	P.508/42	

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
B.L. 6-in. Mark XIII. O.U. 6090 (J).	* 238	R.T.	lb. oz. 101 14	4	Full	f.s. 2750	—	—	P.423/38, P.501/42 P.296/39		
	239	R. & E.	" "	"	"	2850/2500	238	—			
	240	R. & T.	" "	"	"	2850/2500	238	—			
	304	H.T.C.T.	" "	"	"	2750	238	—			
	* 334	F.S.	100 0	"	"	2725	26D	—	P.423/38		Shrapnel, fuze No. 93.
	248	R. & E.	" "	"	"	2750/2625	—	239	—		
	* 241	R.T.	" "	"	Two-thirds.	2075	—	—	P.423/38		
	242	R. & E.	" "	"	"	2150/1900	241	—	—		
	243	R. & T.	" "	"	"	2150/1900	241	—	—		
	28	R. & E.	" "	"	"	2125/1700	—	242	P.423/38, P.294/39		
	332										
	333										
	334										
335											
336											

B.L. 6-in. Marks XXII and XXIII. O.U. 6090 (J).	*342	R.T.	112 0	6	Full	2700	—	—	P.1006/41, P.13/42 P.1007/41 P.1008/41		
	343	R. & E.	" "	"	"	2800/2500	342	—			
	344	R. & T.	" "	"	"	2800/2500	342	—			
	* 348	R.T.	" "	"	Two-thirds.	2000	—	—	P.390/41, P.529/41 P.1009/41, P.31/42, P.465/42		
	349	R. & E.	" "	"	"	2200/1750	348	—	P.1010/41		
	350	R. & T.	" "	"	"	2200/1750	348	—	P.1011/41		
	546	Equivalent Ranges	" "	"	—	—	—	—	P.468/42		For use with Tables 348, 448 and 449.
	448	R.T.	" "	"	Bombardment No. 1	800	—	—	P.410/39, P.427/40, P.393/41, P.530/41, P.1014/41, P.33/42, P.466/42 P.411/39, P.428/40, P.394/41, P.531/41, P.1015/41, P.34/42, P.467/42		For H.E. shell and Chemical Bursting, both fuzed No. 230, and Smoke shell, fuzed No. 118.
	449	R.T.	" "	"	Bombardment No. 2	1100	—	—			
	376 O.C. 63	H.A.F.S. G.F.S. }	" "	"	Full	2700	—	—	P.1012/41, P.32/42		Fuze No. 400, Mk. I.
	*408	H.A.R.T. }	111 0	"	"	2700	—	—	408A P.527/38, P.784/41, P.1013/41		Fuze Nos. 206, 207, 211 and 401 Mk. II.
	*408A	"									
	O.C. 71 O.C. 71A	T.C. "									

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Agrees with Table No. (8)	No. of Super- seding Table, if any. (9)	Amending A.F.Os. (10)	Remarks. (11)
			Weight. (4)	C.r.h. (5)						
Q.F. 5.25-in. Mark I. O.U. 6090 (G).	* 409	R.T.	lb. oz. 80 0	6	Full	f.s. 2600	—	—	P.102/40, P.1081/41, P.324/42, P.462/42	
	410	R. & E.	" "	"	"	2700/2450	409	—	—	
	411	R. & T.	" "	"	"	2700/2450	409	—	—	
	* 426	R.T.	" "	"	Reduced	1900	—	—	P.327/42	
	427	R. & E.	" "	"	"	2050/1600	426	—	—	
	428	R. & T.	" "	"	"	2050/1600	426	—	—	
	* 418	H.A.R.T. }	" "	"	"	"	—	418A	P.783/41, P.1082/41, P.262/42, P.325/42 P.263/42, P.326/42	Fuze Nos.206,207, 211 and 401, Mk. II.
	* 418A O.B.97 O.B.73A	T.C. }	" "	"	Full	2600	—	—	—	
	435	Star R.T.	71 10	4.35 /5	Star	2300	—	—	P.379/40	Fuze No.198,Mk.II.

B.L. 4.7-in. Mark I. O.U. 6090 (B).	* 313	R.T.	50 0	4	Full	2600	—	—	P.505/40, P.809/41 P.907/41	
	314	R. & E.	" "	"	"	2700/2400	313	—	P.417/38	
	315	R. & T.	" "	"	"	2700/2400	313	—	P.417/38	
	143	R.T.	" "	"	"	2550	—	313	P.417/38	
	142	R. & E.	" "	"	"	2650/2400	143	314	P.417/38	
	* 161A	R.T.	" "	"	Reduced	1500	—	—	P.417/38	
	162	R. & E.	" "	"	"	1550/1400	161A	—	P.417/38	
	163	R. & T.	" "	"	"	1550/1400	161A	—	P.417/38	
	* 379 O.C.67	H.A.F.S. G.F.S. }	" "	"	Full	2600	—	—	P.285/41, P.856/41	Fuze No. 400, Mk. I.
	215A	Star R.T.	43 8	2	Star	1900	—	—	P.192/37, P.349/39 P.509/41	Fuze No. 198.
Q.F. 4.7-in. Mark VIII. O.U. 6090 (B).	* 232	R.T.	50 0	4	Full	2400	—	—	—	
	233	R. & E.	" "	"	"	2500/2300	232	—	P.417/38	
	234	R. & T.	" "	"	"	2500/2300	232	—	P.417/38	
	235	H.T.O.T.	" "	"	"	2400	232	—	—	
	* 351A * 351B O.C. 55 O.C. 55A	H.A.R.T. } H.A.R.T. } T.C. } T.C. }	50 8	"	"	2400	—	351B	P.319/42 P.320/42 P.525/38	Fuze Nos. 206,207, 211 and 401, Mk. II.
	215A	Star R.T.	43 8	2	Star	1900	—	—	P.192/37, P.349/39 P.509/41	Fuze No. 198.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Agrees with Table No. (8)	No. of Super- seding Table, if any. (9)	Amending A.F.Os. (10)	Remarks. (11)	
			Weight. (4)	C.r.h. (5)							
Q.F. 4-7-in. Marks IX, IX*, IX** and XII. O.U. 6090 (B).	* 254	R.T.	lb. oz.			f.s.					
	* 255	R. & E.	50 0	4	Full	2600	—	—	P.417/38, P.457/42		
	* 256	R. & T.	" "	"	"	2700/2350	254	—	P.184/38, P.248/38		
	257	H.T.C.T.	" "	"	"	2700/2350	254	—	P.417/38		
	* 457	R.T.	" "	"	Reduced	1950	—	—	P.417/38		
	458	R. & E.	" "	"	"	2000/1850	457	—	P.417/38		
	459	R. & T.	" "	"	"	2000/1850	457	—	P.417/38		
	* 393	R.T.	" "	"	Bom- bard- ment No. 3	1415	—	—	P.461/42		
	394	R.T.	" "	"	Bom- bard- ment No. 2	960	—	—	P.248/38, P.811/41, P.998/41, P.458/42		
	395	R.T.	" "	"	Bom- bard- ment No. 1	800	—	—	P.812/41, P.999/41, P.82/42, P.459/42	For H.E. Shell, Target Smoke, Chemical Bursting, all fuzed No. 230.	
										P.813/41, P.1000/41, P.460/42	

501	Equivalent Ranges	49 10	4	—	—	—	—	—	P.1002/41	For use in con- junction with Tables 502, 503, 504.
502	R.T.	" "	"	Bom- bard- ment No. 3	1419	—	—	—	P.1003/41	
503	"	" "	"	Bom- bard- ment No. 2	963	—	—	—	P.1004/41	
504	"	" "	"	Bom- bard- ment No. 1	803	—	—	—	P.1005/41	
*392 O.C. 60	H.A.R.T. } T.C. }	50 0	"	Full	2600	—	—	—	—	Fuze No. 198, Mk. II.
547 O.B. 104 O.B. 104A	H.A.R.T. } T.C. }	49 2½	"	"	2600	—	—	—	—	Fuze Nos. 211, 207, 206 and 401, Mk. II.
* 405 *405A	H.A.R.T. } " }	49 0	"	"	2600	—	—	405A	P.781/41, P.24/42, P.258/42, P.321/42	Fuze Nos. 206, 207, 211 and 401, Mk. II.
O.C. 70 O.B. 70A	T.C. } " }	" "	"	"	"	—	—	—	P.25/42, P.259/42, P.322/42	
* 379 O.C. 67	H.A.F.S. } G.F.S. }	50 0	"	Full	2600	—	—	—	—	Fuze No. 400, Mk. I.
215A	Star R.T.	43 8	2	Star	1900	—	—	—	P.285/41, P.856/41	Fuze No. 198.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Q.F. 4.7-in. Mark XI. O.U. 6090 (B).	*412	R.T.	lb. oz.	6	Full	f.s.	—	—	P.100/40, P.517/42 P.288/39		
	413	R. & E.	62 0	6		2500					
	414	R. & T.	" "	"		2600/2250					
		*441	R.T.	" "	"	Reduced	1875	—	—	P.518/42	
		442	R. & E.	" "	"	"	1950/1800	441	—	—	
		443	R. & T.	" "	"	"	1950/1800	441	—	P.84/40	
		523	R.T.	62 14	"	Bom- bard- ment No. 2	1250	—	—	P.143/42, P.519/42	For H.E. shell and Chemical Bursting, both fuzed No. 230.
		524	R.T.	" "	"	Bom- bard- ment No. 1	825	—	—	P.144/42, P.520/42	
		*424	H.A.R.T.	} 62 0	}	Full	2500	—	} 424A	P.506/40, P.782/41, P.260/42 P.261/42	Fuze Nos. 206, 207, 211 and 401, Mk. II.
		*424A	H.A.R.T.								
	O.C.74	T.C.									
	O.B.74A	T.C.									

	525	Equivalent Ranges	49 10	4	—	—	—	—	—	For use in con- junction with Tables 526 and 527.
	526	R.T.	" "	"	Bom- bard- ment No. 2	1419	—	—	P.145/42	
	527	R.T.	" "	"	Bom- bard- ment No. 1	940	—	—	P.146/42	For Smoke Shell, B.E., fuzed No. 198, Mk. II.
	460	Star R.T.	55 0	4-22/ 5	Star	2200	—	—	—	
										Fuze No. 198, Mk. II.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Q.F. 4.5-in. Marks I and III. O.U. 6090 (X)	*399	R.T.	lb. oz.			f.s.					
	400	R. & E.	55 0	6	Full	2350	—	—	P.51/41,P.603/42		
	401	R. & T.	" "	"	"	2500/2200	399	—	P.52/41		
				" "	"	"	2500/2200	399	—	P.53/41	
	*423	R.T.	" "	"	Reduced	1775	—	—	P.222/39,P.412/39, P.55/41, P.331/42		
	464	R. & E.	" "	"	"	1850/1700	423	—	—		
	465	R. & T.	" "	"	"	1850/1700	423	—	—		
	*402B	H.A.R.T.	" "	"	"	"	"	402C	P.54/41, P.267/42	Fuze Nos. 206, 207, 211 and 401, Mk. II.	
	*402c	H.A.R.T.	" "	"	Full	2350	—	—	P.821/41, P.268/42		
	O.C. 69	T.C.	" "	"	"	"	—	—	—		
	O.B. 69B	T.C.	" "	"	"	"	—	—	—		
		432	Star R.T.	41 11 1/2	4-7/6	Star	2150	—	—	P.474/39, P.56/41	Fuze No. 198, Mk. II.

B.L. 4-in. Mark VII. O.U. 6090 (K) Field Gun	* † 246 With Wind Correction Graph.	R.T.	31 0 3		Full	2800	275	—	P.424/38	
	29E	F.S.	" "	"	"	2800	275	—	—	Shrapnel, Fuze No. 92.
	543	F.S.	" "	"	"	2800	275	—	—	Shrapnel, Fuze No 80.
B.L. 4-in. Mark IX. O.U. 6090 (K).	* 230	R.T.	31 0 3		Full	2600	—	—	P.331/38,P.424/38, P.911/41,P.226/42, P.600/42	
	178	R. & E.	" "	"	"	2650/2400	230	—	—	
	179	R. & T.	" "	"	"	2650/2400	230	—	—	
	231	H.T.C.T.	" "	"	"	2600	230	—	—	
	90A	R.T.	" "	"	"	2600	—	230	P.424/38	
	180	R. & E.	" "	"	"	2700/2300	90A	178	P.424/38	
	380 O.C. 68	H.A.F.S. } G.F.S. }	" "	"	"	2600	—	—	P.299/37, P.88/39	Fuze No. 400,Mk. I
* 216	Star R.T.	28 12	"	Star	1710	—	—	P.424/38	Fuze No. 198.	

* See Appendix B (new pages). † See Appendix F, para. 3 (Special Establishments).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Q.F. 4-in. Mark IV. O.U. 6090 (K).	*469	R.T.	lb. oz. 31 8	6	Full	f.s. 2100	—	—	P.1090/41, P.391/42,	
	470	H.A.F.S.	31 0	"	"	2100	—	—	P.1091/41 P.469/42	Fuze No. 400, Mk. I.
	* 328	R.T.	" "	3	"	2100	—	—	P.1085/41, P.388/42	
	171	R. & E.	" "	"	"	2250/2000	328	—	P.424/38	
	173	R. & T.	" "	"	"	2250/2000	328	—	P.424/38	
	279	R.T.	" "	"	"	2200	—	328	P.424/38	
	280	R. & E.	" "	"	"	2300/2000	279	171	—	
	482	H.A.F.S.	" "	"	"	2100	—	—	P.122/42	Fuze Nos. 198, Mk. II, 400, Mk. I and 401, Mk. II.
	* 236	Star R.T.	28 12	"	Star	1570	—	—	P.424/38, P.245/40,P.449/40, P.307/41	Fuze No. 198.

Q.F. 4-in. Mark V. O.U. 6090 (K).	* 230	R.T.	31 0	3	Full	2600	—	—	P.331/38,P.424/38 P.911/41,P.226/42, P.600/42	
	178	R. & E.	" "	"	"	2650/2400	230	—	—	
	179	R. & T.	" "	"	"	2650/2400	230	—	—	
	231	H.T.C.T.	" "	"	"	2600	230	—	—	
	90A	R.T.	" "	"	"	2600	—	230	P.424/38	
	180	R. & E.	" "	"	"	2700/2300	90A	178	P.424/38	
	380 O.C.68	H.A.F.S. G.F.S. }	" "	"	"	2600	—	—	P.299/37, P.88/39	Fuze No. 400, Mk. I.
	* 361	R.T.	31 7 $\frac{1}{2}$	6	H.A.	2350	—	—	P.424/38,P.913/41, P.390/42	
	362	R. & E.	" "	"	"	2400/2200	361	—	P.424/38	
	363	R. & T.	" "	"	"	2400/2200	361	—	P.424/38	
	* 139A	R.T.	31 0	"	"	2350	—	361	P.225/42	
	* 429	{ Special H.A.R.T. }	" "	"	"	2350	—	—	—	Fuze No.198,Mk.II.
	* 127A G.R.T. XXXI	{ H.A.R.T. T.C. }	" "	"	"	2350	—	—	P.424/38,P.910/41, P.224/42	Target smoke shell with Fuze No. 192.
	* 245 O.C. 42	{ H.A.R.T. T.C. }	" "	"	"	2350	—	—	P.69/37,P.331/38, P.424/38,P.350/39, P.814/41,P.912/41, P.1084/41, P.387/42	Fuze No. 198, Mk. I.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Q.F. 4-in. Mark V. O.U. 6090 (K)— <i>contd.</i>	*358A	H.A.R.T.	lb. oz.	6	H.A.	f.s.	—	—	P.1086/41P.227/42, P.815/41, P.389/42	Fuze Nos. 206, 207, 211 and 401, Mk. II.	
	*358B	H.A.R.T.									
	O.C. 56	T.C.	30	10					P.528/38		
	O.C. 56A	T.C.									
	*216	Star R.T.	28	12	3	Star	1710	—	—	P.424/38	Fuze No. 198.

Q.F. 4-in. Mark XII. O.U. 6090 (K).	*469	R.T.	31	8	6	Full	2100	—	—	P.1090/41, P.391/42	
	470	H.A.F.S.	31	0	"	"	2100	—	—	P.1091/41, P.469/42	Fuze No. 400, Mk. I.
	*328	R.T.	"	"	3	"	2100	—	—	P.1085/41, P.388/42	
	171	R. & E.	"	"	"	"	2250/2000	328	—	P.424/38	
	173	R. & T.	"	"	"	"	2250/2000	328	—	P.424/38	
	279	R.T.	"	"	"	"	2200	—	328	P.424/38	
	280	R. & E.	"	"	"	"	2300/2000	—	171	—	
	482	H.A.F.S.	"	"	"	"	2100	—	—	P.122/42	Fuze Nos. 198, Mk. II, 400, Mk. I and 401, Mk. II.
	*236	Star R.T.	28	12	"	Star	1570	—	—	P.424/38, P.245/40, P.449/40 P.307/41	Fuze No. 198.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Q.F. 4-in. Mark XVI. O.U. 6090 (K)	*369	R.T.	lb. oz.			f.s.					
	370	R. & E.	35 14	6	Full	2600					
	371	R. & T.	" "	"	"	2700/2450	369				
	498	F.S.	" "	"	"	2700/2450	369		P.785/41, P.1016/41, P.124/42	Fuze No. 206, Mk. I.	
	*438	R.T.	" "	"	Reduced	1950			P.330/42		
	439	R. & E.	" "	"	"	2000/1850	438				
	440	R. & T.	" "	"	"	2000/1850	438				
	*373A	H.A.R.T.	}	}	}	}	}	}	}	}	}
*373B	"		35 0	"	Full	2600			P.519/40, P.399/41, P.817/41 P.1089/41, P.228/42, P.265/42 P.818/41, P.35/42 P.229/42, P.266/42	Fuze Nos. 206, 207, 211 and 401, Mk. II.	
O.C. 58	T.C.		"	"	"						
O.C. 58A	"		"	"	"				P.528/38		
*245	H.A.R.T.	}	}	}	}	}	}	}	}	}	
O.C. 42	T.C.										
			31 0	"	H.A.	2350			P.69/37, P.331/38, P.424/38, P.350/39, P.814/41, P.912/41, P.1084/41, P.387/42	For Target Smoke Shell only.	

	544	Equivalent Ranges R.T.	30 2 1/2	4/5					P.559/42	} Provisional Tables.
	545		" "	"	Reduced	2075			P.560/42	
	549	Equivalent Ranges R.T.	32 12	3.8/10						
	550		" "	"	Reduced	2000				
	*216	Star R.T.	28 12	3	Star	1710			P.424/38	Fuze No. 198.
	422	" "	29 10	4/5	"	2100				Fuze No. 198, Mk. II.
Q.F. 4-in. Mark XIX. O.U. 6090 (K).	*496	R.T.	35 14	6	Full	1275			P.575/41	
	497	H.A.F.S.	35 7	"	"	1275			P.522/42	Fuze No. 400, Mk. I
	540	Star R.T.	29 10	4/5	Star	1475				Fuze No. 198, Mk. II.

* See Appendix B (new pages)

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
M.L. 3-5-in. bomb thrower. O.U. 6090 ().	† 341	R.T.	lb. oz. 213 0	—	Full	f.s. 350	—	—	—	
3-in. rocket ... O.U. 6090 (Z).	519	R.T.	53 12	—	—	—	—	—	—	

Q.F. 3-in. 20 cwt. O.U. 6090 (L).	129A	R.T.	16 0	6	Full	2000	—	—	P.425/38, P.236/41, P.916/41, P.37/42	Fuzes Nos. 80/44, 44 and 45P.
	352	R.T.	17 8	"	"	2000	—	—	P.237/41, P.868/41, P.917/41, P.38/42, P.523/42	Fuze No. 230.
	79	F.S.	16 0	"	"	2000	129A	—	P.425/38	Fuze No. 80/44.
	128A G.L.XXII	H.A.R.T. } T.C. }	" "	"	"	2000	—	—	P.425/38, P.915/41 P.36/42	Fuze No. 80/44.
	396 O.C. 61	H.A.R.T. } T.C. }	" "	"	"	2000	—	—	P.351/39, P.869/41, P.918/41 P.39/42	Fuze No. 198, Mk. II.
	471	H.A.F.S.	16 15	"	"	2000	—	—	P.919/41	Fuze No. 400, Mk. I.
	485	H.A.F.S.	16 8	"	"	2000	—	—	P.920/41	Fuze No. 401, Mk. II.
	337 O.C. 53	H.A.R.T. } T.C. }	12 8	2	Full	2500	—	—	P.425/38	Target smoke shell with Fuze No. 198, Mk. I.
	† 175 G.L.XVIII	H.A.R.T. } T.C. }	" "	"	"	2575	—	—	P.425/38	Target smoke shell with Fuze No. 185.
	† 40/WO/ 4065	H.A.R.T.	" "	"	"	2500	—	—	—	Fuze No. 185.
217	Star R.T.	" "	"	Star	1610	—	—	P.425/38, P.144/41, P.546/41	Fuze No. 198.	

† See Appendix F, para. 3 (Special Establishments).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Q.F. 12-pdr. 12 cwt. O.U. 6090 (M).	488	R.T.	lb. oz. 12 15	6	Full	f.s. 2175	—	—	P.875/41, P.43/42	
	489	R. & E.	" "	"	"	2300/2000	488	—	—	
	490	R. & T.	" "	"	"	2300/2000	488	—	—	
	281	R.T.	12 8	2	"	2197	—	—	P.198/37, P.871/41 P.41/42	
	282	R. & E.	" "	"	"	2300/1900	281	—	—	
	480	H.A.R.T. } O.B.93 T.C. }	" "	"	"	2200	—	—	P.269/41, P.873/41 P.42/42	Fuze No. 198, Mk. II } Fuze Nos. 198, Mk. II, 400, Mk. I, and 401, Mk. II } These range tables are supplied only to ships with H.A. mountings.
	481		H.A.F.S.	" "	"	"	2200	—	—	
	336	Star R.T.	" "	"	Star	1500	—	—	P.426/38, P.30/41, P.295/41	

(8019) Q.F. 6-pdr. Hotchkiss. O.U. 6090 (N).	548	R.T.	6 0	—	Full	1700	—	—	—	H.E. shell, Fuze No. 241.
	* 177	R.T.	" "	—	"	1700	—	—	P.427/38, P.921/41	
	284	R.T.	" "	—	"	1818	—	177	P.427/38	
	285	R. & E.	" "	—	"	1900/1600	284	—	—	
	486	H.A.R.T.	" "	—	"	1725	—	—	P.922/41	Fuze No. 65A.
Q.F. 6-pdr. Sub-calibre, Mark I. O.U. 6090 (N).	495	H.A.R.T. } O.B.96 T.C. }	6 0	3	Full	1750	—	—	—	Fuze No. 125.
	1967									
Q.F. 3-pdr. Hotchkiss. O.U. 6090 (O).	176A	R.T.	3 5	2	Full	1875	—	—	P.1092/41, P.601/42	
	286	R.T.	" "	"	"	1873	—	176A	P.428/38	
	287	R. & E.	" "	"	"	2000/1600	286	—	—	
Q.F. 3-pdr. Sub-calibre, Mark I. O.U. 6090 (O).	494	H.A.R.T. } O.B.95 T.C. }	3 0	3	Full	1950	—	—	P.635/41	Fuze No. 125.
	1967									

* See Appendix B (new pages)

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			lb. oz.			f.s.				
Q.F. 40 mm. Bofors, Mark I O.U. 6090 (R)	532	H.A.R.T.	2 0	—	Full	2800	—	—	—	H.E. shell, Fuze No. 251.
Q.F. 2-pdr. Mark II* O.U. 6090 (E).	169A	R.T.	2 0	2	Full	1900	—	—	—	C.P. shell
	316A	R.T.	" "	"	"	1900	—	—	P.15/41	H.E. shell, Fuze No. 131.
	355A	R.T.	" "	"	"	1900	—	—	—	C.N.F. shell, Fuze No. 124 or No. 125
	320A O.C.51	H.A.R.T. } T.C. }	" "	"	"	1900	—	—	—	{ C.N.F. shell, Fuze No. 124 or No. 125.
	319A O.C.50	H.A.R.T. } T.C. }	" "	—	"	1900	—	—	{ P.241/40, P.16/41 P.435/37	H.E. shell, Fuze No. 131.
Q.F. 2-pdr. Mark II* C. O.U. 6090 (E).	364A	R.T.	2 2½	—	Full	1900	—	—	—	H.E. shell, Fuze No. 240 or 241.
	365A O.C. 59	H.A.R.T. } T.C. }	" "	—	"	1900	—	—	—	{ H.E. shell, Fuze No. 240 or 241.

Q.F. 2-pdr. Mark VIII. L.V. O.U. 6090 (E).	364A	R.T.	2 2½	—	Full	1900	—	—	—	H.E. shell, Fuze No. 240 or 241.
	365A O.C.59	H.A.R.T. } T.C. }	" "	—	"	1900	—	—	—	{ H.E. shell, Fuze No. 240 or 241.
Q.F. 2-pdr. Mark VIII. H.V. O.U. 6090 (E).	* 430	R.T.	1 13½	—	Full	2300	—	—	—	Fuze No. 243.
	* 431 O.C. 76	H.A.R.T. } T.C. }	" "	—	"	2300	—	—	—	Fuze No. 243.
Q.F. 2-pdr. L.A. sub-calibre, Mark I. O.U. 6090 (E).	169A	R.T.	2 0	2	Full	1900	—	—	—	C.P. shell weighted.
	355A	R.T.	" "	"	"	1900	—	—	—	C.N.F. shell, weighted and Shot Practice Mks. I* and II.
	316A	R.T.	" "	"	"	1900	—	—	P.15/41	Projectile Practice Mk. I.
	320A O.C. 51	H.A.R.T. } T.C. }	" "	"	"	1900	—	—	—	{ C.N.F. shell, Fuze No. 124 or No.125.
	364A	R.T.	2 2½	—	"	1900	—	—	—	Projectile Practice, Mk. II.

* See Appendix B (new pages).

CURRENT RANGE TABLES, FUZE SCALES AND TRAJECTORY CHARTS

230

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Agrees with Table No. (8)	No. of Super- seding Table, if any. (9)	Amending A.F.Os. (10)	Remarks. (11)
			Weight. (4)	C.r.h. (5)						
Q.F. 2-pdr. H.A. sub-calibre, Mark II.	164 O.C.32	H.A.R.T. T.C. }	lb. oz. 2 0	2	H.A.	f.s. 1000	—	—	P.420/38, P290/39, P.534/40	C.N.F. shell, Fuze No. 125.
O.U. 6090 (E).	165	R.T. & F.S.	" "	"	"	1000	—	—		P.420/38, P.291/39, P.535/40
20 mm. Oerlikon Gun.	467	R.T.	- 4 ³ / ₈	—	—	2725	—	—	—	—
O.U. 6090 (T).	468	H.A.R.T.	- 4 ³ / ₈	—	—	2725	—	—	—	—
1-in. Aiming Rifle. O.U. 6090 (S).	288	R.T.	oz. grs. 9 403	—	A.R.	1100	—	—	—	—

36

(S.S. 111)	0.5-in. Browning Machine Gun.	541	R.T.	—	—	—	2400	—	—	} Agree with Ameri- can F.T. 0.50— F-2.	
	O.U. 6090 (T.)	542	H.A.R.T.	—	—	—	2400	—	—		
			551	R.T.	—	—	—	2700	—	—	} Agree with Ameri- can F.T. 0.50— F-3.
			552	H.A.R.T.	—	—	—	2700	—	—	
	0.5-in. Vickers Machine Gun.	* 347	R.T.	grs. 580	—	Mk. II Z/A.	2540	—	—	—	
	O.U. 6090 (T).	356	H.A.R.T.	"	—	"	2540	—	—	—	
	.303 in. Lee- Metford Rifles, and Aiming Rifles with long barrels.	289	R.T.	215	—	Mk. VI Ammu- nition.	2000	—	—	—	
	O.U. 6090 (T).										
	Short Lee- Enfield Rifles, Mark III, and Aiming Rifles with short barrels.	311	R.T.	215	—	Mk. VI Ammu- nition.	2000	—	—	—	
	O.U. 6090 (T).										
	All .303 in. Machine Guns and Rifles firing Mark VII Ammu- nition.	312	R.T.	174	—	Mk. VII Ammu- nition.	2440	—	—	—	
	O.U. 6090 (T).										

37

* See Appendix B (new pages).

230

RANGE TABLES AND TRAJECTORY CHARTS FOR AMERICAN GUNS

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Remarks. (8)
			Weight. (4)	C.r.h. (5)			
Q.F. 5-in., 38 cal., Mark XII ... O.U. 6090 (Q) (1).	*O.P. 551	R.T.	lb. 54	5.25	Full	f.s. 2600	45-sec. fuze, Mark XVI and mods.
	Dr. 170024 (O.B. 98)	T.C.	"	"	"	2600	
	533	Star R.T.	"	"	"	2600	
	Sk. 78815	Star G.R.T.	"	"	"	2600	
B.L. 5-in., 51 cal., Mark VIII ... O.U. 6090 (Q) (2).	O.P. 185	R.T.	50	7	Full	3150	Flat nose projectile. Long-pointed projectile.
	O.P. 574	R.T.	"	—	"	3150	
	O.P. 183	R.T.	"	7	Reduced	2300	
	O.P. 186	R.T.	"	—	Reduced	2300	
Q.F. 4-in., 50-cal., Mark IX ... O.U. 6090 (Q) (3).	O.P. 171	R.T.	33	7	Full	2900	Long-pointed projectile.
	O.P. 173	R.T.	"	—	"	2900	
	O.P. 172	R.T.	"	7	Reduced	2500	
	Sk. 73645	Star G.R.T.	"	—	Full	2900	

(88810) Q.F. 3-in., 50-cal., Mark X ... O.U. 6090 (Q) (4).	O.P. 861	R.T.	13	—	Full	2700	30-sec. mechanical time fuze, Mark 22.
	O.P. 144	R.T.	"	—	"	2700	
	O.P. 138	R.T.	"	—	"	2700	Blunt-pointed projectile.
	Dr. 160990	T.C.	12.6	—	"	2735	21-sec. fuze, Mark XI, mod. 2-3.
	O.P. 771	A.A. Barrage Tables	12.6	—	"	2735	
	Sk. 87494	F.S. Chart	12.6	—	"	2735	
	Sk. 99459	Star G.R.T.	13	—	"	2700	30-sec. mechanical time fuze, Mark 22.
Q.F. 3-in., 23-cal., Mark XIV O.U. 6090 (Q) (5).	O.P. 133	R.T.	13	—	—	1650	Shrapnel.
	O.P. 134	R.T.	"	—	—	1650	
	Dr. 55225	T.C.	"	—	—	1650	21-sec. fuze, Mark XI, mod. 2-3.
Q.F. 3-in., 23-cal., Mark XI ... O.U. 6090 (Q) (6).	O.P. 143	R.T.	13	—	—	1650	
	40 mm. A.A. ... O.U. 6090 (Q) (9).	O.P. 867	H.A.R.T.	1.97	—	Full	2800
Q.F. 1-pdr. ... O.U. 6090 (Q) (7).	O.P. 76	R.T.	1.057	—	—	2000	
	General ... O.U. 6090 (Q) (8).	O.P. 380	Description and R.Ts.	—	—	—	—
O.P. 390		Star R.Ts.	—	—	—	—	Description, operation and R.Ts.

O.P. = Ordnance Pamphlet.

* See Appendix B (new pages).

RANGE TABLES AND FUZE SCALES HELD IN RESERVE FOR SPECIAL SERVICES

(No general issue of these Tables will be made.)

230

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
B.L. 14-in., Mark VII. O.U. 6090 (Y).	472	R.T.	lb. oz. 1,590 0	6	Super	f.s. 2750	—	—	—	H.E., fuzed 118.
B.L. 13·5-in., Mark V. O.U. 6090 (F).	484	R.T.	1,250 0	8	Super	2850	—	—	—	H.E., fuzed 118.
	515	R.T.	" "	"	Three-quarter	2100	—	—	—	H.E., fuzed 118. Provisional table.
	*136	R.T.	1,400 0	4	Full	2450	—	—	P.327/38, P.421/38	
	138	R. & E.	" "	"	"	2500/2300	136	—	P.67/37, P.421/38	
	*136A	H.T.C.T.	" "	"	"	2450	136	—	—	
	50	R.T.	" "	"	"	2500	—	136	—	
	53	R. & E.	" "	"	"	2525/2200	50	138	P.421/38	
	500	R.T.	" "	"	Three-quarter	2075	—	—	—	
	*51	R.T.	" "	"	"	2075	—	500	P.421/38	
	54	R. & E.	" "	"	"	2100/1850	51	—	—	
	*52A	R.T.	" "	"	Half	1525	—	—	—	

40

(61898)

B.L. 7·5-in., Mark VI. O.U. 6090 (H).	*264	R.T.	200 0	4	Full	2700	—	—	P.329/38, P.422/38	
	265	R. & E.	" "	"	"	2800/2550	264	—	—	
	266	R. & T.	" "	"	"	2800/2550	264	—	—	
	112	R.T.	" "	"	"	2700	—	264	P.422/38	
	118	R. & E.	" "	"	Full and Reduced	2950/2150	—	265 & 291	—	
	*290	R.T.	" "	"	Reduced	2200	—	—	P.422/38	
	291	R. & E.	" "	"	"	2350/2050	290	—	P.422/38	
	292	R. & T.	" "	"	"	2350/2050	290	—	—	
	116	R.T.	" "	"	"	2200	—	290	P.422/38	
B.L. 6-in., Mark VII. O.U. 6090 (J).	528	R.T.	100 0	6	Full	2700	—	—	P.240/42	
	530	R. & E.	" "	"	"	2850/2550	528	—	—	
	531	R. & T.	" "	"	"	2850/2550	528	—	—	
	191	R. & E.	" "	"	"	3000/2700	—	530	—	
	204	R. & E.	" "	"	Reduced	2250/1900	—	—	—	Will shortly be superseded.
	*271	R.T.	" "	4	Full	2725	—	—	P.423/38, P.12/42	
	340	R.T.	101 14	"	"	2500	—	—	P.599/42	
	239	R. & E.	" "	"	"	2850/2500	340	—	P.502/42	
	240	R. & T.	" "	"	"	2850/2500	340	—	P.296/39	
	*333	F.S.	100 0	"	"	2725	270	—	P.423/38	Shrapnel, Fuze No. 93.
	*334	F.S.	" "	"	"	2725	26D	—	P.423/38	Shrapnel, Fuze No. 93.

41

* See Appendix B (new pages).

230

RANGE TABLES AND FUZE SCALES HELD IN RESERVE FOR SPECIAL SERVICES

(No general issue of these Tables will be made.)

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super-seding Table, if any.	Amending A.F.Os.	Remarks.	
			Weight.	C.r.h.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
B.L. 6-in., Mark VII. O.U. 6090 (J) —contd.	26D	R. & E.	lb. oz. 100 0	4	Full	f.s. 2800/2450	—	239	P.423/38, P.297/39		
	270	R. & E.	" "	"	Full and Reduced	3000/1800	—	26D and 28	—		
	* 272	R.T.	" "	"	Two-thirds.	1950	—	—	P.196/37		
	* 450	R.T.	" "	"	"	1925	—	—	—		
	242	R. & E.	" "	"	"	2150/1900	—	—	—		
	243	R. & T.	" "	"	"	2150/1900	—	—	—		
	237	R. & E.	" "	"	"	2125/2000	—	28	—	See footnote, Appendix A, p. 48.	
	28	R. & E.	" "	"	"	2125/1700	—	242	P.423/38, P.294/39		
	213	Star R.T.	90 0	2	Star	1950	—	—	P.135/41, P.463/42	Fuze No. 198.	

(88819)

B.L. 6-in., Mark XI. O.U. 6090 (J).	*268	R.T.	100 0	4	Full	2900	—	—	—	
	239	R. & E.	101 14	"	"	2850/2500	—	—	P.296/39	
	240	R. & T.	" "	"	"	2850/2500	—	—	—	
	270	R. & E.	100 0	"	Full and Reduced	3000/1800	268 & 269	239 & 242	—	
	023	R. & T.	" "	"	Full	2900/2700	268	240	—	
	269	R.T.	" "	"	Two-thirds	2200	—	—	P.196/37	
	242	R. & E.	" "	"	"	2150/1900	—	—	—	
	243	R. & T.	" "	"	"	2150/1900	—	—	—	
B.L. 6-in., Mark XVI. O.U. 6090 (J).	*268	R.T.	100 0	4	Full	2900	—	—	—	
	239	R. & E.	101 14	"	"	2850/2500	—	—	P.296/39	
	240	R. & T.	" "	"	"	2850/2500	—	—	—	
	273	R. & E.	100 0	"	"	2900/2500	—	239	—	
	269	R.T.	" "	"	Reduced	2200	—	—	P.196/37	
	242	R. & E.	" "	"	"	2150/1900	—	—	—	
243	R. & T.	" "	"	"	2150/1900	—	—	—		

* See Appendix B (new pages).

RANGE TABLES AND FUZE SCALES HELD IN RESERVE FOR SPECIAL SERVICES

(No general issue of these Tables will be made.)

Gun. (1)	Serial No. of Table. (2)	Nature of Table. (3)	Projectile.		Charge. (6)	M.V. (7)	Agrees with Table No. (8)	No. of Super- seding Table, if any. (9)	Amending A.F.Os. (10)	Remarks. (11)
			Weight. (4)	C.r.h. (5)						
B.L. 6-in. Mark XVII. O.U. 6090 (J).	* 103A	R.T.	lb. oz. 100 0	4	Full	f.s. 2800	—	—	P.218/39, P.21/41, P.134/41, P.860/41	
	239	R. & E.	101 14	"	"	2850/2500	—	—	P.296/39	
	240	R. & T.	" "	"	"	2850/2500	—	—	—	
	304	H.T.C.T.	" "	"	"	2750	—	—	—	
	273	R. & E.	100 0	"	"	2900/2500	—	26D	—	
	26D	R. & E.	" "	"	"	2800/2450	103A	239	P.423/38, P.297/39	
	* 104A	R.T.	" "	"	Two-thirds.	2000	—	—	P.196/37	
	242	R. & E.	" "	"	"	2150/1900	—	—	—	
	243	R. & T.	" "	"	"	2150/1900	—	—	—	
	28	R. & E.	" "	"	"	2125/1700	104A	242	P.423/38, P.294/39	
	377 O.C. 65	H.A.F.S. G.F.S. }	" "	"	Full	2750	—	—	P.68/37, P.221/39	Fuze No. 400, Mk. I.
	310	"	" "	" "	"	"	—	—	—	
	310	"	" "	" "	"	"	—	—	—	

(61986) B.L. 5.5-in. Mark I. O.U. 6090 (C).	* 294	R.T.	82 0	4	Full	2725	—	—	P.64/37, P.193/37 P.249/38, P.328/38	
	295	R. & E.	" "	"	"	2800/2550	294	—	—	
	296	R. & T.	" "	"	"	2800/2550	294	—	—	
	153	R.T.	" "	"	"	2725	—	149	—	
	149	R.T.	" "	"	"	2725	—	294	P.418/38	
	13	R. & E.	" "	"	"	2800/2600	153 up to 10°	151	—	
	151	R. & E.	" "	"	"	2800/2600	—	295	—	
	* 317	R.T.	" "	"	Two-thirds.	2050	—	—	P.418/38	
	152	R. & E.	" "	"	"	2100/1900	317	—	—	
	318	R. & T.	" "	"	"	2100/1900	317	—	—	
	154 017	R.T. R. & E.	" "	"	"	2050 2100/1900	—	317	—	
	378 O.C. 66	H.A.F.S. G.F.S. }	" "	"	Full	2725	—	—	P.64/37	Fuze No. 400, Mk. I.
	154	"	" "	" "	"	"	—	—	—	
017	"	" "	" "	"	"	154 up to 10°	152	—		
378 O.C. 66	H.A.F.S. G.F.S. }	" "	" "	Full	2725	—	—	P.64/37	Fuze No. 400, Mk. I.	
Q.F. 4.7-in. Mark V* O.U. 6090 (B).	20	R.T.	50 0	4	Full	2350	—	—	P.11/42	

* See Appendix B (new pages).

RANGE TABLES AND FUZE SCALES HELD IN RESERVE FOR SPECIAL SERVICES
(No general issue of these Tables will be made.)

230

Gun.	Serial No. of Table.	Nature of Table.	Projectile.		Charge.	M.V.	Agrees with Table No.	No. of Super- seding Table, if any.	Amending A.F.Os.	Remarks.
			Weight.	C.r.h.						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
B.L. 4-in. Mark VII. O.U. 6090 (K).	* 275	R.T.	lb. oz. 31 0	3	Full	f.s. 2800	—	—	P.197/37, P.229/40 P.533/41	Shrapnel, Fuze No. 92. Fuze T. No. 198.
	276	R. & E.	" "	"	"	2900/2600	275	—	—	
	29E	F.S.	" "	"	"	2800	275	—	—	
	511	R.T.	" "	"	Reduced	1800	—	—	—	
	391	Star R.T.	" "	"	Star	1870	—	—	—	
B.L. 4-in. Mark VIII. O.U. 6090 (K).	* 328	R.T.	31 0	3	Full	2100	—	—	P.1085/41, P.388/42 P.424/38 P.424/38	Fuze No. 198.
	171	R. & E.	" "	"	"	2250/2000	328	—	—	
	173	R. & T.	" "	"	"	2250/2000	328	—	—	
	277	R.T.	" "	"	"	2275	—	328	—	
	278	R. & E.	" "	"	"	2300/2100	—	171	—	
	499	R.T.	" "	"	Reduced	1500	—	—	—	
	* 236	Star R.T.	" "	"	Star	1570	—	—	P.424/38, P.245/40, P.449/40 P.307/41	

46

B.L. 4-in., Mark IX. O.U. 6090 (K).	466	R.T.	31 0	3	Reduced	1650	—	—	P.282/42	
Q.F. 4-in., Mark V. O.U. 6090 (K).	466	R.T.	31 0	3	Reduced	1650	—	—	P.282/42	
Q.F. 3-in., 20 cwt. O.U. 6090 (L).	483	R.T.	12 8	2	Practice	1600	—	—	—	
Q.F. 12-pdr. 12 cwt. O.U. 6090 (M).	488	R.T.	12 15	6	Full	2175	—	—	P.875/41, P.43/42	Fuze No. 198, Mark II. Fuze Nos. 198, Mk. II, 400, Mk. I, and 401, Mk. II. } For ships with H.A. mountings only.
	489	R. & E.	" "	"	"	2300/2000	488	—	—	
	490	R. & T.	" "	"	"	2300/2000	488	—	—	
	281	R.T.	12 8	2	"	2197	—	—	P.198/37, P.871/41, P.41/42	
	282	R. & E.	" "	"	"	2300/1900	281	—	—	
	480 O.B.93	H.A.R.T. T.C. }	" "	"	"	2200	—	—	P.269/41, P.873/41, P.42/42	
481	H.A.F.S.	" "	"	"	2200	—	—	P.874/41		
336	Star R.T.	" "	"	Star	1500	—	—	P.426/38, P.30/41, P.295/41	Fuze No. 198.	

47

* See Appendix B (new pages).

230

APPENDIX A

List of Tables whose serial numbers have been altered.

Calibre of Gun. (1)	Old Reference.			Nature of Table. (5)	New Reference.	
	Serial No. (2)	O.U. or C.B. No. (3)	Extensions. (4)		Serial No. (6)	O.U. No. (7)
16-in. ...	193A	C.B. 1785	—	H.T.C.T.	224	6090 (U)
7.5-in. ...	G.24836/16 LXI LXII }	—	—	R.T.	116	6090 (H)
		O.U. 5268	G.24836/16	R. & E.	118	"
6-in. ...	LXIX	O.U. 5268	—	R.T.	268	6090 (J)
	LXX	"	—	R.T.	269	"
	LXXIX	"	27	R. & E.	270	"
	p. 88	O.U. 5268A	—	R.T.	271	"
	p. 92	"	—	R.T.	272	"
	p. 100	"	G.35146/15	R. & E.	273	"
			249			
	p. 110	"	250	R. & E.	28	"
	p. 106	"	—			
	G.20053/13	—	—	R. & E.	237*	"
G.20053/13	—	G.35146/15	R. & E.	24A	"	
24	O.U. 6090 (J)	056A	R.T.	25A	"	
25	"	055A	R.T.	25A	"	
G.38886/15	—	—	R. & E.	248	"	
5.5-in. ...	G.22345/15	—	28384	R.T.	153	6090 (C)
	G.22345/15	—	28384	R.T.	154	"
	150	O.U. 6090 (C)	—	R.T.	317	"
4-in. ...	LXXXIV	O.U. 5268	054A	R.T.	275	6090 (K)
	LXXXV	"	028	R. & E.	276	"
	LXXXVI	"	—	R.T.	277	"
	LXXXVII	"	027	R. & E.	278	"
	p. 114	O.U. 5268A	030	R.T.	279	"
	p. 118	"	15	R. & E.	280	"
		"	039			
		"	258			
	G.8021/15	—	—	R. & E.	180	"
	90	O.U. 6090 (K)	G.18668/15	R.T.	90A	"
127	"	32F	H.A.R.T.	127A	"	
172	"	172A	R.T.	328	"	

* The latest reprints of Table No. 237 contain only the extension G.35146/15, Table G.20053/13 being embodied in Table No. 28.

APPENDIX A—contd.

Calibre of Gun. (1)	Old Reference.			Nature of Table. (5)	New Reference.	
	Serial No. (2)	O.U. or C.B. No. (3)	Extensions. (4)		Serial No. (6)	O.U. No. (7)
3-in. 20 cwt.	41H	O.U. 6090 (L)	—	H.A.R.T.	175	6090 (L)
	128 } 78 }	"	—	H.A.R.T.	128A	"
12-pdr. 12 cwt.	XCIII	O.U. 5268	—	R.T.	281	6090 (M)
	XCIV	"	8 }	R. & E.	282	"
	XCIV	"	— }			
6-pdr. ...	XCVII	O.U. 5268	—	R.T.	284	6090 (N)
	XCVIII	"	7 } 21 }	R. & E.	285	"
3-pdr. ...	XCIX	O.U. 5268	XCIXA	R.T.	286	6090 (O)
	C	"	91	R. & E.	287	"
2-pdr. ...	360	O.U. 6090 (E)	—	F.S.	355A	6090 (E)
1-in. A.R.	p. 132	O.U. 5268A	—	R.T.	288	6090 (S)
		"	"	"	"	"
.303-in. ...	CVII	O.U. 5268	—	R.T.	289	6090 (T)
	CVIII	"	—	R.T.	311	"

APPENDIX B

List of Additional and Revised Pages printed after the original issue of Tables.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
16-in. ...	193	1	Nov., 1942	Revised page replacing page 1 (revised May, 1940).	
		14A	May, 1940	Revised page replacing page 14A (revised February, 1940).	
		14B	May, 1940	Additional page giving corrections to Drift Constants.	
		199	35	May, 1940	Revised page replacing page 35 (revised March, 1933).
		43A	May, 1940	Revised page replacing page 43A (revised February, 1940).	
15-in. ...	226	43B	May, 1940	Additional page giving corrections to Drift Constants.	
		1	Mar., 1935	Revised page replacing the original page 1.	
		12	Feb., 1936	Revised page replacing page 12 (revised May, 1933).	
		13	April, 1936	Additional page giving corrections to Drift Constants.	
		261	1	Mar., 1937	Revised page replacing the original page 1.
14-in. ...	415	10	Feb., 1936	Revised page replacing page 10 (December, 1931).	
		11	April, 1936	Additional page giving corrections to Drift Constants.	
		381	1	Nov., 1942	Revised page replacing the original page 1.
		1	June, 1940	Revised page replacing the original page 1.	
		17	May, 1942	Revised page replacing page 17 (June, 1940).	
13.5-in. ...	419	1	June, 1940	Revised page replacing the original page 1.	
		12	May, 1942	Revised page replacing page 12 (June, 1940).	
		51	8	July, 1936	Additional page giving corrections for $\alpha\sigma$ and Table of E.F.C., Wear and M.V.
		7	Mar., 1941	Additional page giving 50 per cent. Zones.	
		52A	10	Sept., 1941	Additional page giving height of target correction table.
13.5-in. ...	136	8	Mar., 1941	Additional page giving table of 50 per cent. Zones.	
		9-11	Apr., 1941	Additional pages giving Wind Correction Tables.	
		136A	3	Sept., 1941	Additional page extending the height of target correction table.

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
8-in. ...	206	1	May, 1932	Revised page replacing page 1 (revised Nov., 1930).	
		12A	June, 1935	Additional page giving corrections to Drift Constants.	
		209	32	Oct., 1932	Revised page replacing page 32 (revised May, 1932).
		40A	June, 1935	Additional page giving corrections to Drift Constants.	
		322A	71	Dec., 1933	Revised page replacing Table No. 322, page 71 (November, 1930).
		72	Dec., 1933	Additional page, being a continuation of page 71 (December, 1933).	
		446	1	July, 1941	Revised page replacing the original page 1.
		17	June, 1942	Additional page giving corrections for M.V. differences.	
7.5-in. ...	264	10	July, 1930	Additional page containing H.T.C. Table.	
		11	Sept., 1931	Additional page containing Table of E.F.C., Wear and M.V., replacing the Table of E.F.C., Wear and M.V. given at foot of page 9.	
		290	9	July, 1930	Additional page containing H.T.C. Table.
		10	Sept., 1931	Additional page containing Table of E.F.C., Wear, and M.V., replacing the Table of E.F.C., Wear and M.V. given at foot of page 8.	
		6-in. ...	24A	7	May, 1928
6-in. ...	25A	6	May, 1928	Additional page giving table of corrections due to increase of $\alpha\sigma$ with elevation.	
		103A	1	Mar., 1937	Revised page replacing page 1 (revised September, 1933).
		1A	Nov., 1930	Additional page, being a continuation of page 1 (revised March, 1937).	
		5	Mar., 1940	Additional page giving table of E.F.C., Wear and M.V.	
		6	Mar., 1940	Additional page, being a continuation of page 5 (March, 1940).	
		104A	1	Sept., 1933	Revised page replacing page 1 (January, 1931).
		1A	Jan., 1931	Additional page, being a continuation of page 1 (revised September, 1933).	
		4	Mar., 1940	Additional page giving table of E.F.C., Wear and M.V.	
		5	Mar., 1940	Additional page, being a continuation of page 4 (March, 1940).	

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
6-in.— <i>contd.</i>	238	1	Mar., 1937	Revised page replacing page 1 (revised October, 1931).	
		1A	Mar., 1937	Additional page, being a continuation of page 1 (revised March, 1937).	
		10	Mar., 1937	Revised page replacing page 10 (revised October, 1931).	
	241	1	Oct., 1942	Revised page replacing the original page 1.	
		9	Feb., 1936	Revised page replacing page 9 (revised October, 1931).	
	268	1	Nov., 1942	Revised page replacing the original page 1.	
	271	1	Oct., 1942	Revised page replacing page 1 (revised September, 1933).	
		6	Mar., 1940	Revised page replacing page 6 (revised August, 1930).	
	272	1	Sept., 1933	Revised page replacing the original page 1.	
		6	Mar., 1940	Revised page replacing page 6 (August, 1930).	
	302	Complete Table on one page.	Oct., 1932	Revised, replacing the original Table No. 302.	
	333	1	June, 1935	Revised page replacing the original page 1.	
		3	June, 1935	Revised page replacing the original page 3.	
		4	June, 1935	Additional page containing Tables C and D.	
		334	1	June, 1935	Revised page replacing the original page 1.
	334	3	June, 1935	Revised page replacing the original page 3.	
		4	June, 1935	Additional page containing Tables C and D.	
		340	1	Mar., 1937	Revised page replacing the original page 1.
			1A	Mar., 1937	Additional page being a continuation of page 1 (revised March, 1937).
	342	8	June, 1939	Additional page giving table of E.F.C., Wear and M.V.	
1		Nov., 1942	Revised page replacing page 1 (revised July, 1939).		
10		May, 1939	Revised page replacing page 10 (revised Nov., 1937).		
348	11	June, 1935	Additional page giving corrections to Drift Constants.		
	1	July, 1939	Revised page replacing page 1 (revised Nov., 1937).		
	9	Nov., 1937	Revised page replacing page 9 (revised February, 1936).		
	10	June, 1935	Additional page giving corrections to Drift Constants.		

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)		
6-in.— <i>contd.</i>	408	1	July, 1941	Revised page replacing the original page 1.		
		21	May, 1939	Revised page replacing the original page 21.		
		22	June, 1942	Additional page giving corrections for M.V. differences.		
		408A	23	June, 1942	Additional page giving corrections for M.V. differences.	
		450	10	Dec., 1939	Additional page giving corrections to Drift Constants.	
		5·5-in. ...	294	1	Jan., 1936	Revised page replacing the original page 1.
9	Dec., 1930			Additional page containing H.T.C. Table.		
10 } 11 }	Aug., 1932			Additional pages containing Table of E.F.C., Wear and M.V., to cancel the Table of E.F.C., Wear and M.V., on page 8.		
317	8			July, 1936	Revised page replacing pages 8 and 9 (August, 1932).	
5·25-in. ...	409			1	Nov., 1939	Revised page replacing the original page 1.
		12	April, 1942	Revised page replacing page 12 (revised August, 1940).		
		418	1	July, 1941	Revised page replacing the original page 1.	
		22	April, 1942	Revised page replacing page 22 (revised August, 1940).		
		23	June, 1942	Additional page giving corrections for M.V. differences.		
		418A	22	April, 1942	Revised page replacing the original page 22.	
		23	June, 1942	Additional page giving corrections for M.V. differences.		
		426	11	Aug., 1940	Revised page replacing page 11 (May, 1940).	
		4·7-in. ...	161A	4	Dec., 1942	Revised page replacing page 4 (revised April, 1942).
				232	1	July, 1942
8	April, 1942			Revised page replacing pages 8 and 9 (revised September, 1936).		
254	1			June, 1942	Revised page replacing page 1 (revised September, 1941).	
1A	Sept., 1941			Additional page, being a continuation of page 1 (revised June, 1942).		
9	April, 1942			Revised page replacing page 9 (revised December, 1933).		
10	May, 1933			Additional page containing note to Table of E.F.C., Wear and M.V.		
11	June, 1935	Additional page giving corrections to Drift Constants.				

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
4.7-in.— contd.	255	10	Aug., 1933	Additional pages for velocities 2425 to 2350 f.s.	
		11	Aug., 1933		
		12	Aug., 1933		
		13	Aug., 1933		
		256	2	Aug., 1933	Revised page replacing the original page 2.
		313	1	Mar., 1940	Revised page replacing page 1 (revised July, 1933).
			1A	Mar., 1940	Additional page, being a continuation of page 1 (revised March, 1940).
			8	April, 1942	Revised page replacing page 8 (revised November, 1936).
		351A	1	July, 1941	Revised page replacing the original page 1.
			2	Aug., 1941	Revised page replacing the original page 2.
			20	April, 1942	Revised page replacing the original pages 20 and 21.
		351B	2	Mar., 1942	Revised page replacing the original page 2.
			21	April, 1942	Revised page replacing the original pages 21 and 22.
		379	1	Mar., 1941	Revised page replacing the original page 1.
		392	1	June, 1942	Revised page replacing page 1 (revised August, 1939).
			9	April, 1942	Revised page replacing the original page 9.
		393	1	Nov., 1937	Revised page replacing the original page 1.
		405	1	July, 1941	Revised page replacing the original page 1.
			13	April, 1942	Revised page replacing the original page 13.
			14	June, 1942	Additional page giving corrections for M.V. differences.
	405A	13	April, 1942	Revised page replacing the original page 13.	
		14	June, 1942	Additional page giving corrections for M.V. differences.	
	412	1	Mar., 1942	Revised page replacing page 1 (revised August, 1940).	
		11	Mar., 1942	Revised page replacing page 11 (August, 1940).	
	424	1	Mar., 1942	Revised page replacing page 1 (revised July, 1941).	
		13	Mar., 1942	Revised page replacing page 13 (August, 1940).	
		14	June, 1942	Additional page giving corrections for M.V. differences.	
	424A	1	Mar., 1942	Revised page replacing the original page 1.	
		13	Mar., 1942	Revised page replacing the original page 13.	
		14	June, 1942	Additional page giving corrections for M.V. differences.	

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
4.7-in.— contd.	441	1	Mar., 1942	Revised page replacing the original page 1.	
		11	Mar., 1942	Additional page containing Table of E.F.C., Wear and M.V.	
		457	1	June, 1942	Revised page replacing the original page 1.
4.5-in.	399	1	July, 1942	Revised page replacing page 1 (revised August, 1939).	
		10	April, 1942	Revised page replacing page 10 (revised September, 1940).	
		11	Feb., 1938	Additional page giving corrections for effect of the earth's rotation.	
		402B	1	July, 1942	Revised page replacing page 1 (revised August, 1941).
			2	Aug., 1941	Revised page replacing the original page 2.
			19	April, 1942	Revised page replacing page 19 (revised March, 1940).
			20	June, 1942	Additional page, giving corrections for M.V. differences.
		402c	1	July, 1942	Revised page replacing page 1 (revised August, 1941).
			19	April, 1942	Revised page replacing the original page 19.
			20	June, 1942	Additional page giving corrections for M.V. differences.
	423	10	April, 1942	Revised page replacing page 10 (April, 1939).	
4-in.	127A	Complete Table.	Jan., 1932	Revised, replacing the original Table No. 127A.	
		139A	1	April, 1942	Revised page replacing page 1, revised July, 1933.
		216	1	Dec., 1942	Revised page replacing page 1 (revised October, 1936).
		230	1	Nov., 1930	Revised page replacing the original page 1.
			1A	July, 1942	Revised page { replacing page 1A (revised Nov-
			1B	July, 1942	Additional page { ember, 1939).
			6	April, 1942	Revised page replacing page 6 (revised August, 1932).
			7	April, 1942	Revised page replacing page 7 (August, 1932).
			8	May, 1933	Additional page containing note to Table of E.F.C., Wear and M.V.
		236	1	Nov., 1935	Revised page replacing the original page 1.
	245	1	April, 1937	Revised page replacing page 1 (revised May, 1936).	

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)	
4-in.—contd.	245	1A	Nov., 1937	Additional page being a continuation of page 1 (revised April, 1937).	
		11	April, 1942	Revised page replacing page 11 (revised January, 1932). or page 13 of reprint dated May, 1939.	
		12	May, 1933	Additional page containing note to Table of E.F.C., Wear and M.V.	
	246	13	Nov., 1938	} Additional pages containing drift tables.	
		14	Nov., 1938		
		15	Nov., 1938		
	246	Complete Table on one page.	May, 1934	Revised, replacing the original Table No. 246.	
		275	1	July, 1935	Revised page replacing the original page 1.
			328	2	July, 1942
		358A	5	July, 1942	Revised page replacing page 5 (revised December, 1935).
			1	Aug., 1941	Revised page replacing page 1 (revised March, 1941).
			1A	July, 1942	Revised page replacing page 1 (revised August, 1941).
		358B	2	Aug., 1941	Revised page replacing the original page 2.
			15	April, 1942	Revised page replacing the original page 15.
			1	Aug., 1941	Revised page replacing the original page 1.
			1A	July, 1942	Additional page, being an extension of page 1 (revised August, 1941.)
			16	April, 1942	Revised page replacing the original page 16.
		361	9	April, 1942	Revised page replacing the original page 9.
			369	1	Aug., 1942
		373A	10	April, 1942	Revised page replacing page 10 (revised July, 1940).
1			Aug., 1941	Revised page replacing page 1 (revised December, 1940).	
24	April, 1942		Revised page replacing page 24 (revised July, 1940).		
25	June, 1942		Additional page giving corrections for M.V. differences.		
373B	1	Aug., 1941	Revised page replacing the original page 1.		
	19	April, 1942	Revised page replacing the original page 19.		
	20	June, 1942	Additional page giving corrections for M.V. differences.		
429	1	July, 1942	Revised page replacing the original page 1.		

APPENDIX B—contd.

Calibre. (1)	Serial No. of Table. (2)	No. of New Page. (3)	Date of New Page. (4)	Description. (5)
4-in.—contd.	438	1	July, 1942	Revised page replacing the original page 1.
	469	10	July, 1942	Revised page replacing the original page 10.
	496	1	June, 1942	Revised page replacing the original page 1.
6-pdr. ...	177	1	Nov., 1932	Revised page replacing the original page 1. Note.—Early issues have page 2 on the same sheet as page 1.
2-pdr. ...	430	1	Feb., 1942	Revised page replacing the original page 1.
		1A	Feb., 1942	Additional page, being an extension of page 1 (revised February, 1942).
		431	1	Feb., 1942
0.5-in. ...	347	1A	Feb., 1942	Additional page being an extension of page 1 (revised February, 1942).
		3	Nov., 1932	Additional page containing Table of Remaining Velocities and Range Equivalents. (Incorporated in page 2 of reprint dated July, 1941.)
American 5-in., 38 cal.	O.P. 551	24 25	May, 1942	{ Additional pages giving table of E.F.C., Wear and Muzzle Velocity.

APPENDIX C

List of Tables removed from last Current List.

Calibre.	Serial No. of Table.	Nature of Table.	Remarks.
(1)	(2)	(3)	(4)
B.L. 13·5-in. V. ...	51A	H.T.C.T.	Superseded by page 10 of Table No. 500.
B.L. 8-in. VIII ...	321 354 446A O.C. 52	H.A.R.T. F.S. H.A.R.T. T.C.	Replaced by 446B.
B.L. 6-in. XXII and XXIII.	346A O.C. 54A	H.A.R.T. T.C.	
Q.F. 5·25-in. I. ...	436 O.B. 81	H.A.R.T. T.C.	
Q.F. 4·7-in. IX and XII.	477 O.B. 92	H.A.R.T. T.C.	
Q.F. 4·7-in. XI ...	447 O.B. 87	H.A.R.T. T.C.	
Q.F. 4·5-in. I and III.	437 O.B. 82	H.A.R.T. T.C.	
Q.F. 4-in. XVI ...	444 O.B. 83	H.A.R.T. T.C.	

APPENDIX D

O.U. Numbers and Letters allotted for the sub-guards and tables

O.U. No.	
O.U. 6090	Guard Books for Range Tables (lace up type).
(1)	Sub-Guard Sheets for Range Tables.
(2)	Guard Books for Range Tables (lever arch type).
(3)	Guard Book for Range Tables (S.O. file, code 40-16).
(A)/1935	Range Tables, Introduction.
(A) (1)/1935	Notes on Ballistics, with Addendum No. 1.
(B)	4·7-in. guns.
(B) (1)	4·7-in. "
(C)	5·5-in. "
(D)	15-in. "
(E)	2 pdr. Q.F. and sub-calibre.
(F)	13·5 in. guns.
(G)	5·25-in. "
(H)	7·5-in. "
(J)	6-in. "
(K)	4-in. "
(L)	3-in. "
(M)	12 pdr. "
(N)	6 pdr. "
(O)	3 pdr. "
(P)	
(Q)	American guns.
(R)	40 mm. Bofors guns.
(S)	1-in. aiming rifle.
(T)	Machine guns, ·303 rifles and Oerlikon Guns.
(U)	16-in. guns.
(W)	8-in. "
(X)	4·5-in. "
(Y)	14-in. "
(Z)	Rockets.

APPENDIX E

List of Current Range Tables, Fuze Scales, Trajectory Charts, and Tables for Special Services in numerical order.

FUZE SCALES. OLD SERIES

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
2C	15 in.	B.L. I	79	3 in.	Q.F. 20 cwt.
29E	4 in.	B.L. VII and Field Gun.			

TRAJECTORY CHARTS

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>G.L. Series.</i>			<i>Present O.B. and O.C. Series—contd.</i>		
G.L. XVIII	3 in.	Q.F. 20 cwt.	O.C. 56 ...	4 in.	Q.F. V
G.L. XXII	"	"	O.C. 56A	"	Q.F. XVI
			O.C. 58 ...	"	Q.F. XVI
			O.C. 58A	"	Q.F. II* C and VIII, L.V.
			O.C. 59 ...	2 pdr.	Q.F. IX and XII.
			O.C. 60 ...	4.7 in.	Q.F. IX and XII.
			O.C. 61 ...	3 in.	Q.F. 20 cwt.
			O.C. 69 ...	4.5 in.	Q.F. I and III
			O.B. 69B	"	"
			O.C. 70 ...	4.7 in.	Q.F. IX and XII
			O.B. 70A	"	B.L. XXII and XXIII.
			O.C. 71 ...	6 in.	"
			O.C. 71A	"	"
			O.B. 73A	5.25 in.	Q.F. I
			O.C. 74 ...	4.7 in.	Q.F. XI
			O.B. 74A	"	"
			O.C. 76 ...	2 pdr.	Q.F. VIII H.V.
			O.B. 88 ...	8 in.	B.L. VIII.
			O.B. 88A	"	"
			O.B. 93 ...	12 pdr.	Q.F. 12 cwt.
			O.B. 95 ...	3 pdr.	Q.F. Sub-cal. I.
			O.B. 96 ...	6 pdr.	Q.F. Sub-cal. I
			O.B. 97 ...	5.25 in.	Q.F. I
			O.B. 98	5 in.	Q.F. 38 cal., XII (American).
			O.B. 104	4.7 in.	Q.F. IX and XII.
			O.B. 104A	"	"
<i>G.R.T. Series.</i>			<i>Present O.B. and O.C. Series.</i>		
G.R.T. XXXI	4 in.	Q.F. V	O.C. 33 ...	2 pdr.	Q.F. H.A., sub-cal. II
			O.C. 42 ...	4 in.	Q.F. V and XVI.
			O.C. 50 ...	2 pdr.	Q.F. II*
			O.C. 51 ...	"	Q.F. II* and L.A. sub-cal.
			O.C. 53 ...	3 in.	Q.F. 20 cwt.
			O.C. 55 ...	4.7 in.	Q.F. VIII
			O.C. 55A	"	"

GRAPHIC FUZE SCALES

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
O.C. 62 ...	8 in.	B.L. VIII	O.C. 66 ...	5.5 in.	B.L. I
O.C. 63 ...	6 in.	B.L. XXII and XXIII	O.C. 67 ...	4.7 in.	B.L. I and Q.F. IX
O.C. 65 ...	"	B.L. XII and XVII.	O.C. 68 ...	4 in.	B.L. IX and Q.F. V.

APPENDIX E—contd.

RANGE TABLES AND FUZE SCALES

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>O. Series.</i>			<i>W.O. Series.</i>		
O.17	5.5 in.	B.L. I	40/W.O./4065	3 in.	Q.F. 20 cwt.
O.23	6 in.	B.L. XI			

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>Present Series.</i>			164	2 pdr.	Q.F. H.A., sub-cal. II.
4	15 in.	B.L. I	165	"	"
5	"	"	169A	"	Q.F. II*, Q.F. L.A. sub-cal.
13	5.5 in.	B.L. I	171	4 in.	B.L. VIII, Q.F. IV and XII.
20	4.7 in.	Q.F. V*	173	"	"
24A	6 in.	B.L. XII	175	3 in.	Q.F. 20 cwt.
25A	"	"	176A	3 pdr.	Q.F. Hotchkiss
26D	"	B.L. VII, XII and XVII.	177	6 pdr.	Q.F. Hotchkiss
28	"	B.L. VII, XII, XIII and XVII.	178	4 in.	B.L. IX, Q.F. V
37	15 in.	B.L. I	179	"	"
38	"	"	180	"	"
39	"	"	191	6 in.	"
50	13.5 in.	B.L. V	193	16 in.	B.L. I
51	"	"	194	"	"
52A	"	"	195	"	"
53	"	"	199	"	"
54	"	"	200	"	"
90A	4 in.	B.L. IX, Q.F. V	201	"	"
103A	6 in.	B.L. XVII	204	6 in.	"
104A	"	"	206	8 in.	B.L. VIII
112	7.5 in.	B.L. VI	207	"	"
116	"	"	208	"	"
118	"	"	209	"	"
127A	4 in.	Q.F. V	210	"	"
128A	3 in.	Q.F. 20 cwt.	211	"	"
129A	"	"	213	6 in.	B.L. VII special services only.
136	13.5 in.	B.L. V	215A	4.7 in.	B.L. I, Q.F. VIII, IX and XII.
136A	"	"	216	4 in.	B.L. IX, Q.F. V and XVI
138	"	"	217	3 in.	Q.F. 20 cwt.
139A	4 in.	Q.F. V	222	8 in.	B.L. VIII
142	4.7 in.	B.L. I	223	"	"
143	"	"	224	16 in.	B.L. I
149	5.5 in.	B.L. I	225	"	"
151	"	"	226	15 in.	B.L. I
152	"	"	227	"	"
153	"	"	228	"	"
154	"	"	229	"	"
161A	4.7 in.	B.L. I	230	4 in.	B.L. IX, Q.F. V
162	"	"			
163	"	"			

APPENDIX E—contd.

RANGE TABLES AND FUZE SCALES—contd.

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>Present Series—contd.</i>					
231	4 in.	B.L. IX, Q.F. V	290	7.5 in.	B.L. VI
232	4.7 in.	Q.F. VIII	291	"	"
233	"	"	292	"	"
234	"	"	294	5.5 in.	B.L. I
235	"	"	295	"	"
236	4 in.	Q.F. IV, XII and B.L. VIII	296	"	"
237	6 in.	B.L. VII and XII	298	15 in.	B.L. I
238	"	B.L. XII and XIII	302	6 in.	B.L. VII Field Gun
239	"	B.L. VII, XI, XII, XIII, XVI and XVII.	304	"	B.L. XII, XIII and XVII
240	"	"	305	"	"
241	"	B.L. XII and XIII	311	.303 in.	Lee-Netford
242	"	B.L. VII, XI, XII, XIII, XVI and XVII.	312	"	Machine Guns, etc.
243	"	"	313	4.7 in.	B.L. I
245	4 in.	Q.F. V and XVI	314	"	"
246	"	B.L. VII Field Gun	315	"	"
248	6 in.	B.L. XIII	316A	2 pdr.	Q.F. II* and L.A. sub-cal.
254	4.7 in.	Q.F. IX and XI	317	5.5 in.	B.L. I
255	"	"	318	"	"
256	"	"	319A	2 pdr.	Q.F. II*
257	"	"	320A	"	Q.F. II* and L.A. sub-cal.
261	15 in.	B.L. I	322A	8 in.	B.L. VIII
262	"	"	328	4 in.	B.L. VIII, Q.F. IV and XII.
263	"	"	333	6 in.	B.L. VII
264	7.5 in.	B.L. VI	334	"	B.L. VII and XIII
265	"	"	336	12 pdr.	Q.F. 12 cwt.
266	"	"	337	3 in.	Q.F. 20 cwt.
268	6 in.	B.L. XI and XVI	340	6 in.	B.L. VII, Special Services only.
269	"	"	341	3.5 in.	M.L. Bomb Thrower
270	"	B.L. VII and XI	342	6 in.	B.L. XXII and XXIII
271	"	B.L. VII	343	"	"
272	"	"	344	"	"
273	"	B.L. XII, XVI and XVII	347	0.5 in.	Machine Gun
275	4 in.	B.L. VII	348	6 in.	B.L. XXII and XXIII.
276	"	"	349	"	"
277	4 in.	B.L. VIII	350	"	"
278	"	"	351A	4.7 in.	Q.F. VIII
279	"	Q.F. IV and XII	351B	"	"
280	"	"	352	3 in.	Q.F. 20 cwt.
281	12 pdr.	Q.F. 12 cwt.	355A	2 pdr.	Q.F. II*, Q.F. L.A. sub-cal.
282	"	"	356	0.5 in.	Machine Gun
284	6 pdr.	Q.F. Hotchkiss	358A	4 in.	Q.F. V
285	"	"	358B	"	"
286	3 pdr.	Q.F. Hotchkiss	361	"	"
287	"	"	362	"	"
288	1 in.	Aiming Rifle	363	"	"
289	.303 in.	Lee-Netford			

APPENDIX E—contd.

RANGE TABLES AND FUZE SCALES—contd.

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>Present Series—contd.</i>					
364A	2 pdr.	Q.F. II*C and VIII L.V. and L.A. sub-cal.	415	14 in.	B.L. VII
365A	"	Q.F. II*C and VIII L.V.	416	"	"
369	4 in.	Q.F. XVI	417	"	"
370	"	"	418	5.25 in.	Q.F. I
371	"	"	418A	"	"
373A	"	"	419	14 in.	B.L. VII
373B	"	"	420	"	"
374	8 in.	B.L. VIII	421	"	"
376	6 in.	B.L. XXII and XXIII	422	4 in.	Q.F. XVI
377	"	B.L. XII and XVII	423	4.5 in.	Q.F. I and III
378	5.5 in.	B.L. I	424	4.7 in.	Q.F. XI
379	4.7 in.	B.L. I, Q.F. IX and XII.	424A	"	"
380	4 in.	B.L. IX and Q.F.V.	426	5.25 in.	Q.F. I
381	15 in.	B.L. I	427	"	"
382	"	"	428	"	"
383	"	"	429	4 in.	Q.F. V
384	"	"	430	2 pdr.	Q.F. VIII H.V.
385	"	"	431	"	"
386	"	"	432	4.5 in.	Q.F. I and III
391	4 in.	B.L. VII	435	5.25 in.	Q.F. I
392	4.7 in.	Q.F. IX and XII	438	4 in.	Q.F. XVI
393	"	"	439	"	"
394	"	"	440	"	"
395	"	"	441	4.7 in.	Q.F. XI
396	3 in.	Q.F. 20 cwt.	442	"	"
397	6 in.	B.L. XII	443	"	"
398	"	"	446	8 in.	B.L. VIII
399	4.5 in.	Q.F. I and III.	446B	"	"
400	"	"	448	6 in.	B.L. XXII and XXIII
401	"	"	449	"	"
402B	"	"	450	"	B.L. VII, special services only.
402C	"	"	451	16 in.	B.L. II and III
405	4.7 in.	Q.F. IX and XII.	452	"	"
405A	"	"	453	"	"
408	6 in.	B.L. XXII and XXIII	454	"	"
408A	"	"	455	"	"
409	5.25 in.	Q.F. I	456	"	"
410	"	"	457	4.7 in.	Q.F. IX and XII
411	"	"	458	"	"
412	4.7 in.	Q.F. XI	459	"	"
413	"	"	460	"	Q.F. XI
414	"	"	464	4.5 in.	Q.F. I and III
			465	"	"
			466	4 in.	B.L. IX
			467	20 mm.	Oerlikon
			468	"	"
			469	4 in.	Q.F. IV and XII
			470	"	"

APPENDIX E—contd.

RANGE TABLES AND FUZE SCALES—contd.

Serial No.	Cal.	Mark of Gun.	Serial No.	Cal.	Mark of Gun.
<i>Present Series—contd.</i>			516	15 in.	B.L. I
471	3 in.	Q.F. 20 cwt.	517	"	"
472	14 in.	B.L. VII	518	"	"
473	6 in.	B.L. XII	519	3 in.	Rocket
474	"	"	520	6 in.	B.L. XII and XIIB
475	"	"	521	"	"
476	"	"	522	"	"
480	12 pdr.	Q.F. 12 cwt.	523	4.7 in.	Q.F. XI
481	"	"	524	"	"
482	4 in.	Q.F. IV and XII	525	"	"
483	3 in.	Q.F. 20 cwt.	526	"	"
484	13.5 in.	B.L. V.	527	"	"
485	3 in.	Q.F. 20 cwt.	528	6 in.	B.L. VII
486	6 pdr.	Q.F. Hotchkiss	529	"	B.L. XII and XIIB
488	12 pdr.	Q.F. 12 cwt.	530	"	B.L. VII, XII and XIIB
489	"	"	531	"	"
490	"	"	532	40 mm.	Bofors, Q.F. I
491	16 in.	B.L. II and III	533	5 in.	Q.F., 38 cal., XII
492	"	"	534	6 in.	B.L. XII and XIIB
493	"	"	535	"	"
494	3 pdr.	Q.F. Sub-cal. I	536	"	"
495	6 pdr.	Q.F. Sub-cal. I	537	"	"
496	4 in.	Q.F. XIX	538	"	"
497	"	"	539	"	"
498	"	Q.F. XVI	540	4 in.	Q.F. XIX
499	"	B.L. VIII	541	0.5 in.	Browning M.G.
500	13.5 in.	B.L. V	542	"	"
501	4.7 in.	Q.F. IX and XII	543	4 in.	B.L. VII field gun.
502	"	"	544	"	Q.F. XVI
503	"	"	545	"	"
504	"	"	546	6 in.	B.L. XXII and XXIII.
505	15 in.	B.L. I	547	4.7 in.	Q.F. IX and XII
506	"	"	548	6 pdr.	Q.F. Hotchkiss
507	"	"	549	4 in.	Q.F. XVI
508	"	"	550	"	"
509	"	"	551	0.5 in.	Browning M.G.
510	"	"	552	"	"
511	4 in.	B.L. VII			
512	15 in.	B.L. I			
513	"	"			
514	"	"			
515	13.5 in.	B.L. V			

APPENDIX F

Establishments authorised for Range Tables, Fuze Scales and Trajectory Charts.

Normal Establishment—

1. The normal establishment of Range Tables, etc., is as follows:—

Flag Officers One complete set for all guns.

Battleships, battle cruisers, cruisers, aircraft carriers, seaplane carriers. } One complete set for all guns carried.

A.A. ships, auxiliary A.A. ships, auxiliary aircraft carriers, flotilla leaders, repair ships, auxiliary fleet repair ships, netlayers, destroyers, anti-aircraft destroyers, sloops, corvettes, coastguard cutters, river gunboats, monitors, minelayers, auxiliary minelayers, submarines, ocean-board-ing vessels and armed merchant cruisers. } One set of Range Tables, Fuze scales and Trajectory Charts for all guns carried. R. & E. and R. & T. scales will not be supplied to these ships.

Captains D., Depot Ships for Destroyers and S/Ms. One complete set for all guns carried in the flotilla.

Dockyards One complete set for all guns.

H.M.S. "Excellent" Five complete sets for all guns (two only of B.L. 16-in. Mark I and B.L. 8-in. Mark VIII), and in addition one copy of all H.A. Tables, fuze scales and trajectory charts.

H.M. Gunnery Schools, Chatham and Devonport. Two complete sets for all guns.

Gun Mounting Overseers On demand from R.N. Store Depot, Elveden Road, N.W.10, for preparation of sight-testing tables at designing and manufacturing works.

Tables for Instructional Purposes—

2. The following tables should be held for instructional purposes in addition to the normal establishment:—

	H.M.S. "Excellent."	H.M. Gunnery Schools, Chatham and Devonport.
B.L. 15 in. I	200	15
B.L. 8 in. VIII	20	—
B.L. 6 in. XII	200	15
Q.F. 4.7 in. IX	*150	15
Q.F. 4 in. V H.A.	40	15
Q.F. 4 in. V, Trajectory Charts.	40	15

* Tables O.U. 6090 (B), 254, 255 and 215A only.

APPENDIX F—contd.

Special Establishments—

3. The normal establishment does not apply to the following tables for which a special distribution is in force as shown:—

Guard Books for Range Tables O.U. 6090 (2).	{ Submarine depôt ships, destroyer depôt ships, and above ... 1 copy. Establishments ... As necessary.
O.U. 6090 or 6090(3)	{ Flotilla leaders, destroyers and below ... 1 copy. Establishments ... As necessary.
Sub-Guard Sheets for Range Tables O.U. 6090 (1).	{ All ships ... 1 set. Establishments ... As necessary.

	No. of Copies.	
	O.U. 6090 (A)	O.U. 6090 (A) (1)
Battleships, battle cruisers, cruisers, aircraft carriers, seaplane carriers, A.A. ships, auxiliary A.A. ships, auxiliary aircraft carriers, destroyer depôt ships, submarine depôt ships, flotilla leaders, repair ships, auxiliary fleet repair ships, net- layers, sloops, corvettes, coastguard cutters, river gunboats, monitors, mine- layers, auxiliary mine- layers, ocean-boarding vessels and armed mer- chant cruisers.	1	1
Introduction to Range Tables, O.U. 6090 (A)/ 1935.	1	—*
Notes on Bal- listics, O.U. 6090 (A) (1)/ 1935.	1†	1†
Dockyards (home and abroad)	1	1
H.M.S. "Excellent"...	230	230
H.M. Gunnery Schools—		
Devonport ...	51	51
Chatham ...	17	17
R.N.V.R. Divisions—		
London, Clyde, Ulster, Severn, Sussex, East Scottish, Mersey and Tyne.	5	5
R.M. Divisions—		
Chatham ...	2	2
Plymouth ...	8	8
Portsmouth ...	18	8
Loan Libraries ...	2	2
Naval Division, Meteorolo- gical Office.	—	3

* Flotilla leader's copy of O.U. 6090 (A) (1) to be available for loan to destroyers of flotilla.

† If fitted with a gun.

B.L. 14 in. Mark VII Table No. 472. O.U. 6090 (Y)	{ V.A., Dover ... 1 copy. A.S., Chatham ... 1 " H.M.S. "Excellent" ... 5 copies. Capt. (G.), Chatham ... 2 " Capt. (G.), Devonport ... 2 "
B.L. 13·5 in. Mark V All tables except Nos. 484 and 515. O.U. 6090 (F).	{ H.M.S. "Iron Duke" ... 1 copy. H.M.S. "Excellent" ... 5 copies. Dockyards. ... 1 copy.

APPENDIX F—contd.

Special Establishments—contd.

B.L. 13·5 in. Mark V. Table No. 484. O.U. 6090 (F).	{ V.A., Dover ... 1 copy. A.S., Chatham ... 1 " H.M.S. "Excellent" ... 5 copies. Capt. (G.), Chatham ... 2 " Capt. (G.), Devonport ... 2 "
B.L. 6 in. Mark VII. Field Gun, Table No. 302, with wind correction graph. O.U. 6090 (J).	{ A.S., Portsmouth ... 4 " A.S., Chatham ... 3 " A.S., Malta ... 4 " N.S.O., Trincomali ... 2 "
B.L. 4 in. Mark VII. Field Gun, Table No. 246, with wind correction graph. O.U. 6090 (K).	{ A.S., Portsmouth ... 2 " A.S., Malta... ... 4 "
3·5 in. bomb thrower. Table No. 341. O.U. 6090 ().	{ C.-in-C., Portsmouth ... 1 copy. Captain A/S, Portland ... 1 " C.O., H.M.S. "Torrid" ... 1 " H.M.S. "Excellent" ... 1 "
3 in., 20 cwt. Tables Nos. 40/W.O./4065, 175 and T.C. No. G.L.XVIII. O.U. 6090 (L).	Gunnery School tenders only 2 copies.

Emergency Sets—

4. In accordance with paragraph 6 of Form U.2.B, two copies of all current Range Tables, Fuze Scales, etc., are required to be maintained by Distributing Authorities abroad as Emergency Sets. The list of current Range Tables issued herein gives the necessary information for keeping Emergency Sets up to date, but the following Range Tables will not be supplied for Emergency Sets:—

Gun.	Table No.
B.L. 16 in., Mark I ...	All.
B.L. 13·5 in., Mark V ...	All.
B.L. 6 in., Mark VII, Field Gun ...	302 and wind correction graph.
B.L. 4 in., Mark VII, Field Gun ...	246 and wind correction graph.
M.L. 3·5 in. Bomb Throwers ...	All.
Q.F. 3 in. 20 cwt. ...	40/W.O./4065.

Any copies of the above tables now held for Emergency Sets should be returned in accordance with para. 9 on page 2 of this A.F.O.

APPENDIX G

Range Tables, etc. (O.U. 6090 series), for Gun Mountings held in reserve abroad.

Gun.		Mounting.	Tables Applicable.				Trajectory Charts.
Cal.	Mark.	Mark.	R.T.	Sights Graduated to R. & E.	Fuze Scales.	Star R.T.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
6-in. ... O.U. 6090 (J).	B.L. VII	P.III P.IV	271	26D	191		
			272				
			340				
			450				
	B.L. XI	P.V	271	26D			
			272				
			340				
			450				
	B.L. XII	P.IXA, B, C P.XIII*	24A	237	377		
			25A				
B.L. XIII	P.XI	238	248	28			
		241					
B.L. XII	P.XIII** C.P.XIV	24A	26D	377			
		25A					
4-7-in. ... O.U. 6090(B).	Q.F. V*...	P.V P.X	20				
	B.L. I ...	C.P.VI*	143	142	379	215A	
			161A				
	Q.F. IX* IX*D	C.P.XIV C.P.XVII C.P.XVIII	254	255	379	215A	
	Q.F. VIII	H.A.XII ...	232	233	—	215A	O.C.55 O.C.55A
			351A				
			351B				
4-in. ... O.U. 6090(K).	B.L. IX IX*	C.P.I	90A	180	380	216	
	Q.F. V ...	C.P.II	90A	180		216	
	Q.F. IV...	C.P.III P.IX	279	280	470	236	
			469				
	Q.F. V ...	H.A.III H.A.III* H.A.III** H.A.IV	90A	178		216	OC42 OC56 OC56A
			230				
			245				
			358A				
358B 361							
Q.F. XVI*	H.A.XIX ...	369	370	498	216	O.C.42 O.C.58 O.C.58A	
		438					
		373A					
		373B					

APPENDIX G—contd.

Range Tables, etc. (O.U. 6090 series), for Gun Mountings held in reserve abroad

Gun.		Mounting.	Tables Applicable.				Trajectory Charts.				
Cal.	Mark.	Mark.	R.T.	Sights Graduated to R. & E.	Fuze Scales.	Star R.T.					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)				
3-in. 20 cwt. O.U. 6090(L).	Q.F. I ... Q.F. II ... Q.F. III Q.F. IV...	H.A.II H.A.III H.A.IV H.A.IVA	128A		471	217	GLXXII OC61				
			352								
396											
12-pdr. 12 cwt. O.U. 6090(M).	Q.F. I ...	H.A.IIA ...	128A	282	481	336	GLXXII OC61				
			129A								
	352										
	396										
Q.F. I and II.	P.I P.I*	S.II	281	282	481	336	O.B.93				
	Q.F. IA, IIA, V.	H.A./L.A. IX	281					282	481	336	
			480 488								
H.A.VIII ...		281	282	481	336						
6-pdr. ... O.U. 6090(N).	I** ...		284	285							
3-pdr. ... O.U. 6090(O).	I ... I* ...		286	287							
2-pdr. ... O.U. 6090 (E).	H.A.II ...		169A				OC50 OC51				
Q.F. VIII H.V.	H.A.VIII*	430	431				O.C.76				
		431									
Lewis and Maxim. O.U. 6090(T).			312								

(A.F.O. 516/42 is cancelled.)

