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EARLY NAVAL ORDNANCE.

By W. G. PERRIN.

Recent contributions have conveyed the impression that we have as yet insufficient data to enable very definite conclusions to be safely arrived at as regards the methods of mounting early Naval Ordnance. While not professing to settle any of the outstanding questions, I propose to submit a few pertinent points gathered in a search among the Exchequer Accounts and elsewhere, and incidentally to raise one or two fresh queries for elucidation.

The most important of the documents so far examined is the Indenture dated 17th July, 1585, by which Drake acknowledged receipt of the ordnance and ordnance stores of the *Bonaventure* and *Aid*. It is too lengthy to quote in full, but the following summary contains all that interests the points at issue. The original spelling of the objects is retained, as it would be dangerous with our present limited knowledge to attempt to translate some of them into modern English, but the clumsy enumeration of weights in Roman numerals has been translated into Arabic numerals on the assumption that the "thousandweight" contained 10 "hundredweights" of 112 lbs., and that the quarter contained 28 lbs.

GUNS OF "BONAVENTURE."

Description.	Nos.	Total Weight.			Aver. Weight.		
		Cwt.	Qrs.	Lbs.	Cwt.	Qrs.	Lbs.
Dimicanons of brasse ..	4	161	3	14	40	1	24½
Canon piriars of brasse ..	4	97	3	2	24	1	21½
Culveringes of brasse ..	8	268	2	16	33	2	9
Dimiculveringes of brasse ..	12	310	0	15	25	3	10½
Sacres of brasse	6	98	2	1	16	1	19
Mynion of brasse	1	12	2	0	12	2	0
Fawcons	3	22	2	0	7	2	0
Portpece halles	4	39	2	24	9	3	20
Chambres of brasse to the same	8	12	2	6	1	2	7½
Fowler balles of brasse ..	2	11	2	17	5	3	8½
Chambres of brasse to the same	4	4	0	14	1	0	3½

ORDNANCE STORES OF "BONAVENTURE."

Gun.	Cari- ages.	Ladles	Sponges	Round shotte of yron.	Dice shotte of yron.	Crosse- barred shotte.	Stone shotte.
Dimicanon ..	4*	4	4	140	4400	10	80
Canon Pirier ..	4*	4	4				
Culveringes ..	8	8	8	370		30	
Dimiculveringes ..	12	6	6	360		40	
Sacres ..	6	4	1	180			
Mynion ..	1	1	1				
Fawcons ..	3	3	1	200			
Fowlers ..	2						55
Portpeces ..	4						69
Basses ..				300			

* These are "furnished with truckles, extrees and linchepinnes."

Staves for ladles ..	20	Pullies double and single ..	6
Heddes and Rammers of all sorts ..	24	Truckles .. (pairs)	10
Linchepinnes spare .. (pairs)	10	Formes for Dimicanons ..	3
Melting ladle ..	1	Canon Pirier ..	1
Morispikes ..	9	Culveringe ..	1
Blackebilles ..	4	Dimiculveringes ..	2
Crowes of yron ..	4	Sacre ..	1
Sledges ..	2	Mynion ..	2
Coynes ..	60	Fawcon ..	1
Bowsinge takles furnished ..	2	Forelockes for Fowlers ..	6
Tallinge hookes furnished ..	2	Extrees spare ..	36
Ladlehookes ..	18	Hollow shotte of leade ..	40
Hookes for Bowsinge Takles ..	2	Forlocke timber .. (foot)	80

Britching rope, 6in. 4 coils weighing 21 cwt. 3 qrs.
 " 5in. 4 coils weighing 18 cwt. 2 qrs.
 " 4in. 4 coils weighing 15 cwt. 2 qrs. 8 lbs.
 " 3 in. 4 coils weighing 10 cwt. 3 qrs. 5 lbs.
 Rope for bowsinge tackle
 and lasshers .. 2 coils weighing 6 cwt. 2 qrs. 10 lbs.

GUNS OF "AID."

Description.	Nos.	Total Weight.	Aver. Weight.
		Cwt. Qrs. Lbs.	Cwts. Qrs. Lbs.
Culveringes of brasse ..	4	141 2 12	35 1 17
Dimiculveringes of brasse ..	4	95 2 23	23 3 19 $\frac{1}{2}$
Sacres of brasse ..	10	152 2 2	15 1 0 $\frac{1}{2}$
Mynions of brasse ..	4	45 1 23	11 1 12 $\frac{3}{4}$
Fawcons of brasse ..	4	31 1 27	7 3 13 $\frac{1}{2}$
Fowlers of brasse ..	4	25 0 7	6 1 1 $\frac{1}{2}$
Chambers of brasse ..	8	8 1 7	1 0 4 $\frac{1}{2}$
Basses of yron with 3 cham- bers ..	2		

ORDNANCE STORES OF "AID."

Guns.	Cari- ages.	Ladles	Sponges	Round shotte.	Crosse- barred shotte.	Stone shotte.
Culveringes	4	2	2	90	10	
Dimiculveringes	4	1	1	80	20	
Sacres	10	9	6	328	26	
Mynions	4	2	2	140	26	
Fawcons	4	2	2	158	2	
Fowlers	4					76

Staves for ladles	28	Truckles	(pairs) 8
Heddies and Rammers	26	Formes for cartouches for Sacre	1
Linchpinnes (pairs)	22	" Mynion	1
Morrispikes	10	" Fawcons	1
Blackbilles	20	Forlockes for Fowlers	10
Crowes of yron	4	Extrees	12
Sledges	3	Meltinge ladle	1
Pickhammers	2	Commanders	1
Coynes	60	Tampions	60
Tallingehookes furnished	6	Skalloppes for Fowlers	8
Ladles hookes	8	Skalloppe pinnes	2
Hookes for bousinge takles	2	Bougebarrell	1
Spikes	18	Tanned hide	1

Britchinge rope 6 in. 1 coil }
 5 in. 4 coil } weighing 58 cwt. 23 lbs.
 4 in. 4 coil }
 3 in. 4 coil }

Rope for bousinge takle and lasshers 2 coils weighing 5 cwt. 26 lbs.

(To be continued.)

NOTES.

A ST. LAWRENCE TRADER.

My friend Mr. Neil Mitchell, the Artist, has given me the following information on the subject of the St. Lawrence River trader mentioned in July 1919. He has also given me the accompanying sketches, which are not drawn strictly to scale. Mr. Mitchell saw and sketched several of these craft on the St. Lawrence River in 1882. He believes they are not now to be found. They then plied the river between Montreal and Quebec, and were even seen on Lake Champlain. They

were from 60 to 80 feet long, with moderate beam, and were flat-bottomed with "square" stern and bow, the latter narrow and so odd in shape that the appearance from certain view-points was much like a Chinese junk. The most remarkable feature was, however, the great winch or windlass with its supports carried down through the cabin. This windlass had two barrels fitted with cranks, upon which were the halyards for the two sails. The halyards also served as backstays. The bowsprit, not