

THE
HAY AND CATTLE
MEASURER.

APS. 1.84.207
ABS. 1.84.185

~~4000-6000~~ 6

6000-400-60 yds one Aere Imperls
of Runny Drills

$$\begin{array}{r} 5-5 \\ 14 \\ \hline 68 \end{array} \quad \text{---} \quad \frac{1}{4}$$

18

$$\begin{array}{r} 16 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 47 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 62 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 104 \\ \hline 83 \end{array}$$

$$\begin{array}{r} 109 \\ \hline 104 \\ \hline 55 \end{array}$$

26

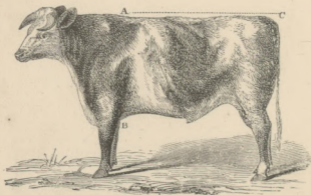
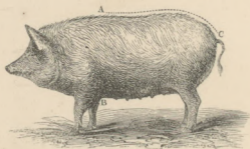
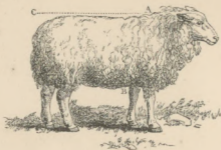


J. W. Thoms
Feddinich

THE
HAY AND CATTLE MEASURER.







MODE OF MEASUREMENT
TO DETERMINE WEIGHT OF LIVE STOCK.

THE
HAY & CATTLE MEASURER:

A SERIES OF TABLES,

SHOWING BY MEASUREMENT THE WEIGHT OF

HAY & CORN IN ROUND OR OBLONG STACKS,

AND THE LIVE AND DEAD WEIGHT OF

CATTLE, SHEEP, AND SWINE;

ALSO,

TABLES FOR REDUCING VARIOUS LOCAL WEIGHTS AND MEASURES

TO THE IMPERIAL STANDARD,

AND SHOWING THEIR EQUIVALENT PRICE.



LONDON:
BLACKIE & SON, PATERNOSTER BUILDINGS, E.C.;
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1876.



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PREFACE.

IN the following set of Tables the Publishers have endeavoured to present practical men with the means of readily ascertaining the Solid or Cubical Contents of Hay and Corn Stacks, and also the Weight of Live Stock. Great pains have been taken to insure their accuracy, and explain their application to practical purposes. With the latter view, remarks have been prefixed to each Table, which, it is believed, will greatly facilitate their consultation, and explain their mode of application with sufficient brevity and precision. Tables are also added, showing the Equivalents of the Imperial Stone of 14 lbs. in various Local Weights. These Tables are extracted from the *Agriculturist's Calculator*, and now published in a separate form, to meet the wants of a numerous class who do not require the other portions of that work.

GLASGOW, *February*, 1860.

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THE HAY & CATTLE MEASURER.

TABLE I.

SHOWS THE SOLID OR CUBICAL CONTENT OF STACKS OF A ROUND OR CYLINDRICAL FORM, IN SOLID YARDS AND FEET. FROM 6 TO 21 FT. IN HEIGHT, AND FROM 15 TO 82 FT. IN GIRTH OR CIRCUMFERENCE.

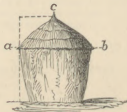
IN the first three pages of the table are found the girths from 15 to 37 ft.; in the next three pages the girths from $37\frac{1}{2}$ to $59\frac{1}{2}$ ft.; and, in the last three pages, the girths from 60 to 82 ft.; these are placed in the left-hand columns of the pages; the heights from 6 to 21 ft. are placed along the top of the other columns; the solid content is found opposite the given girth, in the column under the given height.

The girths being given, rising by a half foot, from 15 to 82 ft., are, in ordinary cases, sufficiently minute for any measurement; and, if required, any height may be had, rising by a half-foot from 3 ft. to $32\frac{1}{2}$ ft., either by taking half the content of one of the heights in the Table, or by adding together the contents of two of the heights.

If any required girth exceeds the bounds of the Table, the content of it may be found by taking *half* of the given girth in the Table, and multiplying its content by the square of $2=4$, and the product is the content of the girth required. Thus, to know the content of a stack of 150 ft. girth and 21 ft. high: in the Table opposite half its girth, 75 ft., under height 21 ft., stands its content, 348 yds. 4 ft., which multiplied by 4 gives 1392 yds. 16 ft., the content of the stack.

The contents are set down to the nearest fraction of a foot: fractions of a half-foot and under are neglected, and when above a half-foot, they are reckoned 1.

To find the solid content of a circular stack, such as the figure adjoining:—When the stack tapers regularly from the eaves to the ground, find the mean girth by adding together the girth taken at the bottom of the stack and the girth taken at the eaves, *a*, *b*, both in feet, and half the sum is the mean girth. When the stack does not taper regularly, girths must be



taken in several places and added together, their sum divided by the number of girths taken, the quotient is the mean girth.

Note.—The multiplier .0029474 is found by dividing .07958, the area of a circle whose circumference is 1, by 27, the cubic feet in a yard.

When great accuracy is not required, the content is sometimes found by taking the height of the stack from the ground to the eaves, and adding to this the third of the height from the eaves to the crown—the sum of these by the mean girth gives the content.

The content thus found is less than the truth, but the loss may not be great, seeing that the stack is not so dense at the top as it is at the bottom.

The weight of hay per cubic yard, in stacks, varies very considerably, from quality, size of the stack, age, &c. In England, stacks of new hay may weigh 8 or 10 stones, of 14 lbs. per cubic yard, and when they are 10 or 12 months old, the cubic yard may weigh 14, 16, 18, and sometimes as much as 20 stones. In Scotland, hay is frequently calculated by the Trone stone, varying, in different counties, from 22 to 28 lbs. Imperial. New hay, in small stacks, is supposed to weigh about 5 stones, of 22 lbs., per cubic yard; large stacks, about 6 or 7 stones. Large stacks, that have stood 10 or 12 months, may weigh 9, 10, or 11 stones per cubic yard, according to size and quality.

According to Baildon, the quantity of corn in a stack may be estimated at the average quantity of a bushel to a solid yard: but if the crop has been mown, a yard will not average more than 3 pecks. Stacks of straw may be estimated at the rate of 18 or 20 yards to a ton.

In order to find the weight of stacks, of all the varieties alluded to above, it was considered most advisable to give, first, Tables showing the cubic content of stacks in solid yards and feet, as has been done in this Table, and in Table II., for measuring stacks of an oblong form, and then to give a separate Table, showing the number of stones in any number of cubic yards, ranging from 4 to 20 stones per cubic yard, as is done in Table III.

If we suppose the foregoing example to be an old hay stack, and may weigh 16 stones Imperial per cubic yard, on turning to Table III. we find that 160 yards will be 2560 stones, at that rate. If the hay is supposed to weigh 9 stones Scotch Trone weight, 160 yards will weigh 1440 Trone stones.

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIVEN.	HEIGHT.											
	6 Feet.		6½ Feet.		7 Feet.		8 Feet.		9 Feet.		10 Feet.	
Fect.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
15	3	26	4	8	4	17	5	8	5	26	6	17
15½	4	7	4	16	4	26	5	18	6	10	7	2
16	4	14	4	24	5	8	6	1	6	21	7	15
16½	4	22	5	6	5	17	6	11	7	6	8	1
17	5	3	5	14	5	26	6	22	7	18	8	14
17½	5	11	5	23	6	9	7	6	8	3	9	1
18	5	20	6	6	6	18	7	17	8	16	9	15
18½	6	1	6	15	7	2	8	2	9	2	10	2
19	6	10	6	25	7	12	8	14	9	16	10	17
19½	6	20	7	8	7	23	8	26	10	2	11	6
20	7	2	7	18	8	7	9	12	10	16	11	21
20½	7	12	8	1	8	18	9	25	11	4	12	10
21	7	22	8	12	9	3	10	11	11	19	13	0
21½	8	5	8	23	9	15	10	24	12	7	13	17
22	8	15	9	7	10	0	11	11	12	23	14	7
22½	8	26	9	19	10	12	11	25	13	12	14	25
23	9	10	10	4	10	25	12	13	14	1	15	16
23½	9	21	10	16	11	11	13	1	14	18	16	7
24	10	5	11	1	11	24	13	16	15	8	16	26
24½	10	17	11	13	12	10	14	4	15	25	17	19
25	11	1	11	26	12	24	14	20	16	16	18	11
25½	11	13	12	12	13	11	15	9	17	7	19	4
26	11	26	12	26	13	26	15	25	17	25	19	25
26½	12	11	13	12	14	13	16	15	18	17	20	19
27	12	24	13	26	15	1	17	5	19	9	21	13
27½	13	10	14	13	15	16	17	22	20	2	22	8
28	13	23	15	1	16	5	18	13	20	22	23	3
28½	14	10	15	15	16	20	19	4	21	15	23	25
29	14	24	16	3	17	9	19	22	22	8	24	21
29½	15	11	16	18	17	26	20	14	23	2	25	18
30	15	25	17	7	18	15	21	6	23	24	26	14
30½	16	12	17	22	19	5	21	25	24	18	27	11
31	17	0	18	11	19	22	22	18	25	13	28	9
31½	17	15	19	0	20	13	23	11	26	9	29	7
32	18	3	19	17	21	3	24	4	27	4	30	5
32½	18	18	20	6	21	21	24	24	28	1	31	4
33	19	7	20	23	22	13	25	18	28	24	32	3
33½	19	23	21	14	23	4	26	12	29	21	33	2
34	20	12	22	4	23	23	27	7	30	18	34	2
34½	21	1	22	22	24	15	28	2	31	15	35	2
35	21	18	23	13	25	7	28	24	32	13	36	3
35½	22	8	24	4	26	0	29	19	33	12	37	4
36	22	25	24	22	26	20	30	15	34	10	38	5
36½	23	15	25	14	27	13	31	11	35	9	39	7
37	24	6	26	6	28	7	32	8	36	9	40	9

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	11 Feet.		11½ Feet.		12 Feet.		13 Feet.		14 Feet.		15 Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
15	7	8	7	17	7	26	8	17	9	8	9	26
15½	7	21	8	4	8	13	9	6	9	25	10	17
16	8	8	8	18	9	1	9	22	10	15	11	9
16½	8	22	9	6	9	17	10	12	11	6	12	1
17	9	10	9	21	10	6	11	2	11	25	12	21
17½	9	25	10	10	10	22	11	20	12	17	13	15
18	10	14	11	0	11	12	12	11	13	10	14	9
18½	11	3	11	16	12	3	13	3	14	3	15	4
19	11	19	12	6	12	21	13	22	14	24	15	26
19½	12	9	12	24	13	12	14	15	15	19	16	22
20	12	26	13	15	14	4	15	9	16	14	17	18
20½	13	17	14	7	14	23	16	3	17	9	18	16
21	14	8	14	26	15	16	16	24	18	5	19	13
21½	15	0	15	18	16	9	17	19	19	2	20	12
22	15	19	16	11	17	3	18	15	19	26	21	11
22½	16	11	17	4	17	24	19	11	20	24	22	10
23	17	4	17	25	17	19	20	7	21	22	23	10
23½	17	24	18	19	19	14	21	4	22	21	24	11
24	18	18	19	14	20	10	22	2	23	21	25	13
24½	19	12	20	9	21	6	23	0	24	21	26	15
25	30	7	21	5	22	3	23	26	25	21	27	17
25½	21	2	22	1	23	0	24	25	26	22	28	20
26	21	25	22	25	23	25	25	24	27	24	29	24
26½	22	21	23	22	24	23	26	25	28	26	31	1
27	23	17	24	19	25	21	27	25	30	2	32	6
27½	24	14	25	17	26	20	28	26	31	6	33	12
28	25	11	26	15	27	20	30	1	32	9	34	18
28½	26	9	27	14	28	20	31	3	33	14	35	25
29	27	7	28	14	29	20	32	6	34	19	37	5
29½	28	6	29	13	30	21	33	9	35	25	38	13
30	29	5	30	14	31	22	34	13	37	4	39	21
30½	30	4	31	14	32	24	35	17	38	10	41	3
31	31	4	32	15	34	0	36	22	39	18	42	13
31½	32	5	33	17	35	3	38	1	40	25	43	23
32	33	5	34	19	36	6	39	6	42	7	45	7
32½	34	7	35	22	37	10	40	13	43	16	46	19
33	35	8	36	25	38	14	41	20	44	25	48	4
33½	36	10	38	1	39	19	43	0	46	8	49	17
34	37	13	39	5	40	24	44	8	47	19	51	3
34½	38	16	40	9	42	3	45	16	49	3	52	17
35	39	19	41	14	43	9	46	25	50	15	54	4
35½	40	23	42	19	44	15	48	8	52	0	55	19
36	42	0	43	25	45	23	49	18	53	13	57	8
36½	43	5	45	4	47	3	51	1	54	26	58	24
37	44	10	46	11	48	11	52	12	56	13	60	14

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	16 Feet.		17 Feet.		18 Feet.		19 Feet.		20 Feet.		21 Feet.	
Fect.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
15	10	16	11	7	11	25	12	16	13	7	13	25
15½	11	9	12	1	12	20	13	12	14	4	14	24
16	12	2	12	22	13	16	14	9	15	2	15	23
16½	12	23	13	17	14	12	15	7	16	1	16	23
17	13	17	14	13	15	9	16	5	17	1	17	24
17½	14	12	15	9	16	7	17	4	18	1	18	26
18	15	8	16	6	17	5	18	4	19	3	20	1
18½	16	4	17	4	18	4	19	4	20	5	21	5
19	17	1	18	2	19	4	20	6	21	8	22	9
19½	17	25	19	1	20	5	21	8	22	11	23	14
20	18	23	20	1	21	6	22	11	23	16	24	20
20½	19	22	21	2	22	8	23	14	24	21	26	0
21	20	22	22	3	23	11	24	19	26	0	27	8
21½	21	22	23	4	24	14	25	24	27	7	28	17
22	22	22	24	7	25	18	27	3	28	14	29	26
22½	23	24	25	10	26	23	28	9	29	23	31	9
23	24	26	26	14	28	2	29	17	31	5	32	20
23½	26	1	27	18	29	8	30	25	32	15	34	5
24	27	4	28	23	30	15	32	7	33	26	35	18
24½	28	8	30	2	31	23	33	17	35	10	37	4
25	29	13	31	9	33	4	35	0	36	23	38	18
25½	30	18	32	16	34	13	36	11	38	9	40	7
26	31	24	33	24	35	23	37	23	39	23	41	23
26½	33	3	35	5	37	7	39	9	41	11	43	13
27	34	10	36	14	38	18	40	22	42	26	45	3
27½	35	18	37	24	40	3	42	9	44	16	46	22
28	36	26	39	8	41	16	43	24	46	6	48	14
28½	38	8	40	19	43	2	45	13	47	24	50	7
29	39	18	42	4	44	15	47	3	49	16	52	1
29½	41	1	43	16	46	5	48	20	51	8	53	23
30	42	12	45	3	47	20	50	11	53	1	55	19
30½	43	23	46	16	49	10	52	3	54	23	57	16
31	45	9	48	4	51	0	53	22	56	18	59	13
31½	46	21	49	19	52	17	55	15	58	13	61	11
32	48	8	51	8	54	9	57	9	60	10	63	10
32½	49	22	52	25	56	1	59	4	62	7	65	10
33	51	10	54	15	57	21	61	0	64	5	67	11
33½	52	25	56	6	59	15	62	23	66	4	69	12
34	54	14	57	25	61	9	64	20	68	4	71	15
34½	56	4	59	17	63	4	66	18	70	4	73	18
35	57	21	61	10	65	0	68	16	72	6	75	22
35½	59	12	63	4	66	23	70	16	74	8	78	0
36	61	3	64	25	68	20	72	16	76	11	80	6
36½	62	22	66	20	70	18	74	16	78	14	82	12
37	64	15	68	16	72	17	76	18	80	19	84	20

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

CIRCUM. Feet.	HEIGHT.											
	6 Feet.		6½ Feet.		7 Feet.		8 Feet.		9 Feet.		10 Feet.	
	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
37½	24	23	26	25	29	0	33	4	37	8	41	12
38	25	14	27	18	29	21	34	1	38	8	42	15
38½	26	6	28	11	30	16	34	26	39	9	43	19
39	26	24	29	4	31	10	35	23	40	9	44	22
39½	27	16	29	24	32	5	36	21	41	10	46	0
40	28	8	30	18	33	0	37	20	42	12	47	4
40½	29	0	31	11	33	23	38	18	43	14	48	9
41	29	20	32	6	34	18	39	17	44	16	49	15
41½	30	12	33	0	35	14	40	16	45	19	50	21
42	31	5	33	21	36	11	41	16	46	21	52	0
42½	31	25	34	16	37	7	42	16	47	25	53	6
43	32	19	35	11	38	4	43	16	49	1	54	13
43½	33	13	36	7	39	1	44	17	50	5	55	21
44	34	6	37	2	39	25	45	18	51	10	57	2
44½	35	1	37	25	40	23	46	19	52	14	58	10
45	35	22	38	21	41	21	47	20	53	19	59	18
45½	36	17	39	18	42	19	48	22	54	25	61	1
46	37	11	40	15	43	18	49	24	56	4	62	10
46½	38	6	41	11	44	17	51	0	57	10	63	20
47	39	2	42	9	45	16	52	2	58	16	65	3
47½	39	24	43	6	46	15	53	5	59	23	66	14
48	40	20	44	4	47	14	54	9	61	3	67	25
48½	41	16	45	2	48	14	55	13	62	11	69	9
49	42	12	46	0	49	15	56	17	63	19	70	21
49½	43	9	46	25	50	15	57	21	65	0	72	6
50	44	6	47	24	51	16	58	26	66	9	73	19
50½	45	3	48	23	52	17	60	4	67	18	75	4
51	46	0	49	22	53	18	61	9	69	0	76	18
51½	46	24	50	22	54	19	62	15	70	10	78	5
52	47	22	51	22	55	21	63	20	71	20	79	19
52½	48	20	52	22	56	23	65	0	73	3	81	6
53	49	18	53	22	57	26	66	6	74	14	82	21
53½	50	17	54	23	59	1	67	13	75	25	84	10
54	51	15	55	23	60	4	68	20	77	9	85	26
54½	52	14	56	24	61	8	70	1	78	21	87	15
55	53	13	57	26	62	11	71	9	80	7	89	4
55½	54	13	59	0	63	15	72	17	81	19	90	21
56	55	12	60	2	64	19	73	26	83	5	92	12
56½	56	12	61	4	65	23	75	7	84	18	94	2
57	57	12	62	7	67	1	76	16	86	5	95	21
57½	58	13	63	9	68	6	77	26	87	19	97	12
58	59	13	64	12	69	11	79	9	89	6	99	4
58½	60	14	65	15	70	16	80	19	90	21	100	23
59	61	15	66	19	71	22	82	2	92	9	102	16
59½	62	16	67	22	73	1	83	13	93	25	104	9

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.					
	11 Feet.	11½ Feet.	12 Feet.	13 Feet.	14 Feet.	15 Feet.
Fect.	Yds. Ft.	Yds. Ft.	Yds. Ft.	Yds. Ft.	Yds. Ft.	Yds. Ft.
37½	45 16	47 18	49 20	53 24	58 1	62 5
38	46 22	48 26	51 2	55 9	59 16	63 23
38½	48 2	50 7	52 11	56 21	61 4	65 14
39	49 8	51 15	53 21	58 8	62 21	67 7
39½	50 16	52 24	55 5	59 21	64 10	68 26
40	51 24	54 6	56 16	61 8	66 1	70 20
40½	53 5	55 16	58 0	62 23	67 18	72 14
41	54 14	56 26	59 12	64 11	69 10	74 9
41½	55 23	58 10	60 25	66 0	71 2	76 4
42	57 5	59 21	62 11	67 16	72 21	78 0
42½	58 15	61 6	63 24	69 6	74 14	79 23
43	59 26	62 18	65 11	70 23	76 8	81 20
43½	61 9	64 4	66 25	72 14	78 2	83 18
44	62 21	65 17	68 13	74 5	79 24	85 16
44½	64 5	67 3	70 1	75 24	81 19	87 15
45	65 18	68 17	71 17	77 16	83 15	89 14
45½	67 3	70 5	73 6	79 9	85 12	91 14
46	68 16	71 20	74 23	81 2	87 8	93 15
46½	70 3	73 8	76 13	82 23	89 6	95 16
47	71 17	74 24	78 4	84 17	91 4	97 18
47½	73 4	76 13	79 22	86 12	93 3	99 20
48	74 19	78 3	81 13	88 8	95 2	101 23
48½	76 7	79 20	83 5	90 3	97 2	104 0
49	77 23	81 10	84 25	92 0	99 2	106 4
49½	79 12	83 1	86 18	93 24	101 3	108 9
50	81 1	84 20	88 11	95 21	103 4	110 14
50½	82 18	86 12	90 5	97 19	105 6	112 20
51	84 9	88 4	92 0	99 18	107 9	115 0
51½	86 0	89 24	93 22	101 17	109 12	117 7
52	87 18	91 18	95 17	103 16	111 16	119 15
52½	89 10	93 11	97 13	105 16	113 20	121 23
53	91 2	95 6	99 9	107 17	115 25	124 5
53½	92 22	97 0	101 6	109 18	118 3	126 15
54	94 15	98 23	103 4	111 20	120 9	128 25
54½	96 8	100 18	105 1	113 22	122 15	131 9
55	98 2	102 14	107 0	115 24	124 22	133 20
55½	99 23	104 11	108 26	118 1	127 3	136 5
56	101 18	106 8	110 25	120 4	129 11	138 17
56½	103 13	108 5	112 24	122 9	131 20	141 4
57	105 9	110 3	114 25	124 13	134 2	143 17
57½	107 5	112 2	116 25	126 18	136 12	146 5
58	109 2	114 1	118 26	128 24	138 22	148 20
58½	110 26	116 0	121 1	131 3	141 6	151 8
59	112 23	118 0	123 3	133 10	143 17	153 24
59½	114 21	120 0	125 6	135 18	146 2	156 14

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	16 Feet.		17 Feet.		18 Feet.		19 Feet.		20 Feet.		21 Feet.	
Fect.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
37½	66	9	70	12	74	16	78	20	82	24	87	1
38	68	3	72	10	76	16	80	23	85	3	89	10
38½	69	24	74	7	78	17	83	0	87	10	91	20
39	71	20	76	6	80	19	85	5	89	18	94	4
39½	73	16	78	5	82	21	87	10	91	26	96	15
40	75	12	80	5	84	24	89	16	94	9	99	1
40½	77	9	82	5	87	1	91	23	96	19	101	14
41	79	7	84	6	89	5	94	4	99	2	104	1
41½	81	6	86	8	91	10	96	12	101	14	106	16
42	83	5	88	10	93	16	98	21	104	0	109	5
42½	85	5	90	14	95	22	101	4	106	13	111	22
43	87	5	92	17	98	3	103	15	109	0	114	12
43½	89	6	94	22	100	11	105	26	111	15	117	3
44	91	8	97	0	102	19	108	11	114	3	119	22
44½	93	10	99	6	105	2	110	24	116	20	122	15
45	95	13	101	13	107	12	113	11	119	10	125	9
45½	97	17	103	20	109	23	115	25	122	1	128	4
46	99	21	106	1	112	7	118	13	124	20	130	26
46½	101	26	108	9	114	19	121	2	127	12	133	23
47	104	5	110	18	117	5	123	19	130	6	136	20
47½	106	11	113	1	119	19	126	9	133	0	139	18
48	108	18	115	12	122	6	129	1	135	22	142	16
48½	110	25	117	23	124	21	131	20	138	18	145	16
49	113	6	120	8	127	10	134	12	141	14	148	17
49½	115	15	122	21	130	0	137	6	144	12	151	18
50	117	24	125	7	132	17	140	0	147	10	154	20
50½	120	7	127	21	135	8	142	22	150	9	157	23
51	122	18	130	9	138	0	145	18	153	9	161	0
51½	125	2	132	24	140	19	148	14	156	9	164	4
52	127	14	135	13	143	12	151	12	159	11	167	10
52½	129	26	138	3	146	6	154	10	162	13	170	16
53	132	13	140	20	149	1	157	8	165	16	173	23
53½	134	26	143	11	151	23	160	8	168	20	177	4
54	137	14	146	3	154	19	163	8	171	24	180	13
54½	140	2	148	22	157	16	166	9	175	2	183	23
55	142	18	151	15	160	13	169	11	178	9	187	6
55½	145	7	154	9	163	11	172	13	181	16	190	18
56	147	24	157	4	166	10	175	17	184	23	194	3
56½	150	15	159	26	169	10	178	21	188	5	197	16
57	153	6	162	21	172	10	181	26	191	14	201	3
57½	155	25	165	18	175	11	185	4	194	24	204	17
58	158	17	168	15	178	13	188	10	198	8	208	6
58½	161	10	171	13	181	15	191	18	201	20	211	22
59	164	4	174	11	184	18	194	25	205	5	215	12
59½	166	26	177	10	187	22	198	7	208	19	219	3

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	6 Feet.		6½ Feet.		7 Feet.		8 Feet.		9 Feet.		10 Feet.	
Fect.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
60	63	18	68	28	74	7	84	24	95	13	106	3
60½	64	20	70	3	75	14	86	8	97	2	107	24
61	65	22	71	8	76	21	87	20	98	19	109	18
61½	66	24	72	12	78	1	89	5	100	9	111	13
62	67	26	73	17	79	8	90	17	101	26	113	8
62½	69	2	74	23	80	16	92	3	103	7	115	4
63	70	5	76	1	81	24	93	16	105	8	117	0
63½	71	8	77	7	83	5	95	2	106	26	118	23
64	72	12	78	13	84	14	96	16	108	18	120	20
64½	73	15	79	19	85	23	98	3	110	10	122	17
65	74	19	80	25	87	5	99	17	112	2	124	14
65½	75	24	82	5	88	14	101	4	113	22	126	12
66	77	1	83	12	89	24	102	19	115	15	128	11
66½	78	6	84	19	91	6	104	7	117	8	130	9
67	79	10	86	0	92	17	105	23	119	2	132	8
67½	80	16	87	8	94	0	107	12	120	23	134	8
68	81	21	88	16	95	11	109	1	122	18	136	8
68½	82	26	89	24	96	22	110	17	124	13	138	8
69	84	5	91	6	98	6	112	7	126	8	140	9
69½	85	11	92	15	99	18	113	24	128	4	142	10
70	86	18	93	24	101	3	115	15	129	26	144	11
70½	87	24	95	6	102	15	117	5	131	23	146	13
71	89	4	96	16	104	0	118	23	133	19	148	16
71½	90	11	97	25	105	13	120	15	135	16	150	18
72	91	18	99	9	106	26	122	6	137	14	152	21
72½	92	6	100	19	108	12	123	25	139	12	154	25
73	94	6	102	3	109	26	125	18	141	10	157	2
73½	95	14	103	13	111	12	127	10	143	8	159	6
74	96	23	104	25	112	26	129	3	145	7	161	11
74½	98	4	106	9	114	14	130	24	147	6	163	16
75	99	13	107	21	116	1	132	17	149	6	165	21
75½	100	22	109	6	117	16	134	11	151	6	168	0
76	102	4	110	18	119	5	136	5	153	6	170	7
76½	103	13	112	3	120	20	138	0	155	6	172	13
77	104	23	113	16	122	9	139	22	157	7	174	20
77½	106	6	115	2	123	25	141	17	159	9	177	1
78	107	16	116	15	125	14	143	12	161	10	179	9
78½	108	26	118	2	127	4	145	8	163	13	181	17
79	110	10	119	15	128	21	147	4	165	15	183	26
79½	111	21	121	2	130	11	149	1	167	18	186	8
80	113	5	122	17	132	1	150	24	169	21	188	17
80½	114	16	124	4	133	19	152	22	171	24	191	0
81	116	1	125	19	135	10	154	19	174	1	193	10
81½	117	13	127	7	137	1	156	17	176	5	195	21
82	118	25	128	22	138	20	158	15	178	10	198	5

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	11 Feet.		11½ Feet.		12 Feet.		13 Feet.		14 Feet.		15 Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
60	116	19	122	1	127	9	137	25	148	15	159	4
60½	118	18	124	2	129	12	140	7	151	1	161	22
61	120	17	126	3	131	16	142	16	153	15	164	14
61½	122	17	128	5	133	21	144	25	156	2	167	6
62	124	17	130	8	135	26	147	8	158	17	169	26
62½	126	17	132	11	138	4	149	18	161	5	172	19
63	128	18	134	14	140	10	152	2	163	21	175	13
63½	130	20	136	18	142	17	154	14	166	10	178	7
64	132	22	138	23	144	24	156	25	169	0	181	2
64½	134	24	141	0	147	4	159	11	171	18	183	25
65	136	26	143	6	149	12	161	24	174	9	186	21
65½	139	3	145	11	151	20	164	10	177	1	189	18
66	141	6	147	17	154	2	166	24	179	20	192	16
66½	143	10	149	24	156	11	169	12	182	13	195	14
67	145	15	152	4	158	21	172	0	185	6	198	13
67½	147	19	154	12	161	4	174	16	188	0	201	12
68	149	25	156	20	163	15	177	5	190	22	204	12
68½	152	4	159	1	165	26	179	21	193	17	207	12
69	154	10	161	10	168	11	182	11	196	12	210	13
69½	156	16	163	19	170	23	185	2	199	8	213	15
70	158	23	166	2	173	8	187	20	202	5	216	17
70½	161	4	168	13	175	21	190	12	205	2	219	20
71	163	12	170	23	178	8	193	4	208	0	222	23
71½	165	20	173	8	180	22	195	24	210	26	226	0
72	168	2	175	19	183	10	198	17	213	25	229	5
72½	170	11	178	4	185	25	201	11	216	24	232	10
73	172	21	180	17	188	13	204	5	219	24	235	16
73½	175	4	183	3	191	2	207	0	222	25	238	23
74	177	15	185	16	193	18	209	22	225	26	242	3
74½	179	26	188	3	196	8	212	18	229	1	245	10
75	182	10	190	18	198	26	215	14	232	3	248	19
75½	184	22	193	6	201	17	218	11	235	6	252	0
76	187	7	195	21	204	8	221	9	238	9	255	10
76½	189	20	198	10	207	0	224	6	241	13	258	20
77	192	6	200	26	209	19	227	5	244	18	262	3
77½	194	20	203	16	212	12	230	4	247	23	265	15
78	197	7	206	6	215	5	233	3	251	1	268	26
78½	199	21	208	24	217	26	236	3	254	7	272	12
79	202	9	211	15	220	20	239	4	257	14	275	25
79½	204	25	214	6	223	15	242	5	260	22	279	11
80	207	13	216	25	226	10	245	6	264	2	282	26
80½	210	3	219	18	229	5	248	8	267	11	286	13
81	212	19	222	10	232	1	251	11	270	20	290	2
81½	215	9	225	4	234	25	254	14	274	2	293	18
82	218	0	227	25	237	22	257	17	277	12	297	7

TABLE I.—CUBIC CONTENT OF ROUND STACKS.

GIRTH.	HEIGHT.											
	16 Feet.		17 Feet.		18 Feet.		19 Feet.		20 Feet.		21 Feet.	
Fect.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
60	169	21	180	10	191	0	201	16	212	6	222	22
60½	172	16	183	11	194	5	204	26	215	20	226	15
61	175	13	186	12	197	11	208	10	219	9	230	8
61½	178	10	189	14	200	18	211	22	222	26	234	3
62	181	7	192	16	203	25	215	7	226	16	237	25
62½	184	6	195	20	207	6	218	20	230	7	241	21
63	187	5	198	24	210	15	222	7	233	26	245	18
63½	190	4	202	1	213	25	225	22	237	19	249	16
64	193	4	205	6	217	8	229	10	241	12	253	14
64½	196	5	208	12	220	19	232	26	245	6	257	14
65	199	7	211	19	224	4	236	16	249	2	261	14
65½	202	9	214	26	227	17	240	7	252	24	265	15
66	205	11	218	7	231	3	243	25	256	21	269	17
66½	208	15	221	16	234	17	247	18	260	18	273	19
67	211	19	224	25	238	4	251	10	264	17	277	23
67½	214	23	228	8	241	20	255	4	268	16	282	0
68	218	2	231	19	245	9	258	26	272	16	286	6
68½	221	8	235	3	248	25	262	21	276	16	290	12
69	224	14	238	15	252	16	266	17	280	18	294	18
69½	227	21	242	1	256	7	270	13	284	20	298	26
70	231	2	245	14	259	26	274	11	288	23	303	8
70½	234	11	249	1	263	19	278	9	293	0	307	17
71	237	20	252	16	267	12	282	8	297	4	312	0
71½	241	2	256	4	271	6	286	8	301	10	316	11
72	244	13	259	20	275	1	290	8	305	16	320	23
72½	247	24	263	10	278	23	294	10	309	23	325	9
73	251	8	267	0	282	19	298	12	314	4	329	23
73½	254	21	270	18	286	16	302	13	318	12	334	9
74	258	7	274	10	290	14	306	18	322	22	338	25
74½	261	20	278	3	294	12	310	22	327	5	343	14
75	265	7	281	23	298	11	315	0	331	16	348	4
75½	268	22	285	17	302	11	319	6	336	1	352	22
76	272	10	289	11	306	12	323	12	340	13	357	14
76½	276	0	293	6	310	13	327	20	344	26	362	6
77	279	16	297	2	314	15	332	1	349	14	366	26
77½	283	7	300	26	318	18	336	10	354	2	371	21
78	286	25	304	23	322	21	340	19	358	17	376	15
78½	290	16	308	21	326	25	345	2	363	7	381	11
79	294	9	312	19	331	3	349	14	367	24	386	8
79½	298	1	316	18	335	8	353	25	372	15	391	5
80	301	22	320	18	339	15	358	11	377	7	396	4
80½	305	16	324	19	343	22	362	24	382	0	401	3
81	309	11	328	20	348	2	367	11	386	20	406	3
81½	313	6	332	22	352	11	371	26	391	15	411	3
82	317	3	336	25	356	20	376	15	396	10	416	5

TABLE II.

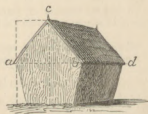
THIS TABLE SHOWS THE SOLID OR CUBICAL CONTENT OF STACKS OF A SQUARE OR AN OBLONG FORM, IN SOLID YARDS AND FEET, FROM $\frac{1}{2}$ FOOT TO 60 FEET IN LENGTH, $\frac{1}{2}$ FOOT TO 21 FEET IN BREADTH, AND THE SAME IN HEIGHT.

THE breadths are found on the tops of the pages, the lengths in the left-hand columns, and the heights along the tops of the other columns; the content, at a given breadth and height, is found opposite any given length, in the column under the given height.

THE content of any dimension, not found in the Table, may be had by adding together the contents of two dimensions, either in length, breadth, or height; or, it may sometimes be more convenient to take the half of the content of double the required dimension. The Table may also be extended to any required length, by adding together the contents of two or more dimensions.

NOTE. AS stated in the introduction to Table I. (*which see*), the weight of hay stacks, &c., per cubic yard, varies so much, from size, age, and quality, that it was considered most advisable to give, first, Tables showing the cubical content of stacks in solid yards and feet, as is done in this Table, and in Table I., and then to give a separate Table, showing the number of stones in any number of cubic yards, ranging from 4 to 20 stones per cubic yard, as is done in Table III.

TO find the solid content of a stack of the form adjoining, the ends being perpendicular, but the breadth wider at the eaves than at the bottom:— Add the breadth at the bottom to the breadth at the eaves, *a, b*, and divide the sum by 2 for the mean breadth; then with the length of the stack, the mean breadth, and the height from the ground to the eaves, find the content of this portion in the Table. Next find the content of the top portion of the stack by taking the length and breadth at the eaves, and the perpendicular height from the eaves to the ridge of the stack *c*, divide the content found in the Table by 2, and add the quotient to the content of the body portion; their sum is the solid content of the stack.



EXAMPLE. Required the solid content of a hay stack, the

length of which is 50 feet, the breadth at the eaves 17 feet, at the bottom 13 feet, the perpendicular height from the ground to the eaves 13 feet, and from the eaves to the ridge of the stack 7 feet.

	Yds. Ft.
Length 50 feet, \times mean breadth 15 feet, \times height to eaves, 13 feet ($= 6 + 7$) $= 166.18 + 194.12 =$	361 3
Length at eaves 50 feet, \times breadth 17 feet ($= 8 + 9$), and height 7 feet $= 103.19 + 116.18 = 220.10$, divided by 2 $=$	110 5
Solid content of the stack, . . .	471 8

To find the content of the above by the pen:—Multiply the mean length of the body of the stack by the mean breadth, and the product by the height from the ground to the eaves. Then multiply the length and breadth of the stack at the eaves by the perpendicular height from the eaves to the ridge, and divide the product by 2. Add the products of the two portions together, divide their sum by 27, and the quotient is the content in solid yards, and the remainder, if any, is solid feet, thus:—

$$\begin{aligned}
 50 \times 15 &= 750 \times 13 = && 9750 \\
 50 \times 17 &= 850 \times 7 = 5950 \div 2 = && 2975 \\
 \text{And } 9750 + 2975 &= 12725 \div 27 = && 471.8.
 \end{aligned}$$

The solid content as in the example.

The content is sometimes found by adding the half of the perpendicular height from the eaves to the ridge of the stack, to the height from the ground to the eaves, by the product of the mean length and breadth, and finding the content in the Table at once. This gives the content something less than the truth, as was mentioned in Table I.

To find the number of Imperial stones in the stack, at the rate of 14 stones per cubic yard, turn to Table III.,

	Stones.
Where, under 14 stones, opposite 450 yards, stands	6300
And, opposite 10 yards, stands	126
The number of stones in the stack, . . .	6426

If the number of Scotch stones in the stack is required, weighing 8 stones per yard,

	Stones.
Under 8 stones, opposite 450 yards stands	3600
And opposite 10 yards stands	80
The number of stones in the stack,	3680

TABLE II.—CUBIC CONTENT OF ORLONG STACKS.

Length.		Breadth 6 inches.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 1 $\frac{1}{2}$
2	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 1	0 1 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$
3	0 0 $\frac{1}{2}$	0 1	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$	0 3	0 4	0 5	0 6
4	0 0 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 2 $\frac{1}{2}$	0 3	0 3 $\frac{1}{2}$	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 8
5	0 1	0 2	0 3	0 4	0 5	0 6	0 8	0 10	0 12
6	0 1 $\frac{1}{2}$	0 2 $\frac{1}{2}$	0 3 $\frac{1}{2}$	0 4 $\frac{1}{2}$	0 5	0 6 $\frac{1}{2}$	0 7 $\frac{1}{2}$	0 10	0 12 $\frac{1}{2}$
7	0 1 $\frac{1}{2}$	0 3	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 12	0 15	0 18
8	0 1 $\frac{1}{2}$	0 3 $\frac{1}{2}$	0 5 $\frac{1}{2}$	0 7	0 8 $\frac{1}{2}$	0 10 $\frac{1}{2}$	0 14	0 17 $\frac{1}{2}$	0 20
9	0 2	0 4	0 6	0 8	0 9	0 12	0 16	0 20	0 25
10	0 2 $\frac{1}{2}$	0 4 $\frac{1}{2}$	0 6 $\frac{1}{2}$	0 9	0 11 $\frac{1}{2}$	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	0 28
11	0 2 $\frac{1}{2}$	0 5	0 7 $\frac{1}{2}$	0 10	0 12 $\frac{1}{2}$	0 15	0 20	0 25	0 32
12	0 2 $\frac{1}{2}$	0 5 $\frac{1}{2}$	0 8 $\frac{1}{2}$	0 11	0 13 $\frac{1}{2}$	0 16 $\frac{1}{2}$	0 22	0 28	1 0 $\frac{1}{2}$
13	0 3	0 6	0 9	0 12	0 15	0 18	0 24	0 31	1 3
14	0 3 $\frac{1}{2}$	0 6 $\frac{1}{2}$	0 9 $\frac{1}{2}$	0 13	0 16 $\frac{1}{2}$	0 19 $\frac{1}{2}$	0 26	0 34	1 5 $\frac{1}{2}$
15	0 3 $\frac{1}{2}$	0 7	0 10 $\frac{1}{2}$	0 14	0 17 $\frac{1}{2}$	0 21	1 1	1 8	1 8
16	0 3 $\frac{1}{2}$	0 7 $\frac{1}{2}$	0 11 $\frac{1}{2}$	0 15	0 18 $\frac{1}{2}$	0 22 $\frac{1}{2}$	1 1	1 10 $\frac{1}{2}$	1 10 $\frac{1}{2}$
17	0 4	0 8	0 12	0 16	0 20	0 24	1 5	1 13	1 13
18	0 4 $\frac{1}{2}$	0 8 $\frac{1}{2}$	0 12 $\frac{1}{2}$	0 17	0 21 $\frac{1}{2}$	0 25 $\frac{1}{2}$	1 7	1 15 $\frac{1}{2}$	1 15 $\frac{1}{2}$
19	0 4 $\frac{1}{2}$	0 9	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 9	1 18	1 18
20	0 4 $\frac{1}{2}$	0 9 $\frac{1}{2}$	0 14 $\frac{1}{2}$	0 19	0 23 $\frac{1}{2}$	1 1 $\frac{1}{2}$	1 11	1 20 $\frac{1}{2}$	1 20 $\frac{1}{2}$
20	0 5	0 10	0 15	0 20	0 25	1 3	1 13	1 23	1 23
30	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21	2 21
40	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19	3 19
50	0 12 $\frac{1}{2}$	0 25	1 10 $\frac{1}{2}$	1 23	2 8 $\frac{1}{2}$	2 21	3 19	4 17	4 17
60	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15	5 15

Length.		Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
		yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 1 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$	0 3	0 3 $\frac{1}{2}$	0 4 $\frac{1}{2}$	0 5 $\frac{1}{2}$	0 6 $\frac{1}{2}$
2	0 3	0 3 $\frac{1}{2}$	0 4	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 10 $\frac{1}{2}$	0 12 $\frac{1}{2}$
3	0 6	6 * 7	0 8	0 9	0 12	0 15	0 18	0 21	0 24
4	0 9	0 10 $\frac{1}{2}$	0 12	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 4 $\frac{1}{2}$	1 9
5	0 12	0 14	0 16	0 18	0 24	1 3	1 9	1 15	1 21
6	0 15	0 17 $\frac{1}{2}$	0 20	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	1 25 $\frac{1}{2}$	1 32
7	0 18	0 21	0 24	1 0	1 9	1 18	2 0	2 9	2 18
8	0 21	0 24 $\frac{1}{2}$	1 1	1 4 $\frac{1}{2}$	1 15	1 25 $\frac{1}{2}$	2 9	2 19 $\frac{1}{2}$	2 29
9	0 24	1 1	1 5	1 9	1 21	2 6	2 18	3 3	3 15
10	1 0	1 4 $\frac{1}{2}$	1 9	1 13 $\frac{1}{2}$	2 0	2 13 $\frac{1}{2}$	3 0	3 13 $\frac{1}{2}$	3 21
11	1 3	1 8	1 13	1 18	2 6	2 21	3 9	3 24	3 33
12	1 6	1 11 $\frac{1}{2}$	1 17	1 22 $\frac{1}{2}$	2 12	3 1 $\frac{1}{2}$	3 18	4 7 $\frac{1}{2}$	4 18
13	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18	5 3
14	1 12	1 18 $\frac{1}{2}$	1 25	2 4 $\frac{1}{2}$	2 24	3 16 $\frac{1}{2}$	4 9	5 1 $\frac{1}{2}$	5 12
15	1 15	1 22	2 2	2 9	3 3	3 24	4 18	5 12	5 21
16	1 18	1 25 $\frac{1}{2}$	2 6	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	5 22 $\frac{1}{2}$	6 3
17	1 21	2 2	2 10	2 18	3 15	4 12	5 9	6 6	6 15
18	1 24	2 5 $\frac{1}{2}$	2 14	2 22 $\frac{1}{2}$	3 21	4 19 $\frac{1}{2}$	5 18	6 16 $\frac{1}{2}$	7 0
19	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0	7 15
20	2 3	2 12 $\frac{1}{2}$	2 22	3 4 $\frac{1}{2}$	4 6	5 7 $\frac{1}{2}$	6 9	7 10 $\frac{1}{2}$	7 21
30	2 6	2 16	2 26	3 9	4 12	5 15	6 18	7 21	8 1
40	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18	13 15
50	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15	17 15
60	5 15	6 13	7 11	8 9	11 3	13 24	16 18	19 13	21 15
60	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9	27 9

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.	Breadth 1 foot.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{1}{2}$	0 0 $\frac{3}{4}$	0 1	0 1 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$
1	0 0 $\frac{1}{2}$	0 1	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$	0 3	0 4	0 5
2	0 1	0 2	0 3	0 4	0 5	0 6	0 8	0 10
3	0 1 $\frac{1}{2}$	0 3	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 12	0 15
4	0 2	0 4	0 6	0 8	0 10	0 12	0 16	0 20
5	0 2 $\frac{1}{2}$	0 5	0 7 $\frac{1}{2}$	0 10	0 12 $\frac{1}{2}$	0 15	0 20	0 25
6	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3
7	0 3 $\frac{1}{2}$	0 7	0 10 $\frac{1}{2}$	0 14	0 17 $\frac{1}{2}$	0 21	1 1	1 8
8	0 4	0 8	0 12	0 16	0 20	0 24	1 5	1 13
9	0 4 $\frac{1}{2}$	0 9	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 9	1 18
10	0 5	0 10	0 15	0 20	0 25	1 3	1 13	1 23
11	0 5 $\frac{1}{2}$	0 11	0 16 $\frac{1}{2}$	0 22	1 0 $\frac{1}{2}$	1 6	1 17	2 1
12	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
13	0 6 $\frac{1}{2}$	0 13	0 19 $\frac{1}{2}$	0 26	1 5 $\frac{1}{2}$	1 12	1 25	2 11
14	0 7	0 14	0 21	1 1	1 8	1 15	2 2	2 16
15	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21
16	0 8	0 16	0 24	1 5	1 13	1 21	2 10	2 26
17	0 8 $\frac{1}{2}$	0 17	0 25 $\frac{1}{2}$	1 7	1 15 $\frac{1}{2}$	1 24	2 14	3 4
18	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9
19	0 9 $\frac{1}{2}$	0 19	1 1 $\frac{1}{2}$	1 11	1 20 $\frac{1}{2}$	2 3	2 22	3 14
20	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19
30	0 15	1 3	1 18	2 6	2 21	3 9	4 12	6 15
40	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11
50	0 25	1 23	2 21	3 19	4 17	5 15	7 11	9 7
60	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3

	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 3	0 3 $\frac{1}{2}$	0 4	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 10 $\frac{1}{2}$
1	0 6	0 7	0 8	0 9	0 12	0 15	0 18	0 21
2	0 12	0 14	0 16	0 18	0 24	1 3	1 9	1 15
3	0 18	0 21	0 24	1 0	1 9	1 18	2 0	2 9
4	0 24	1 1	1 5	1 9	1 21	2 6	2 18	3 3
5	1 3	1 8	1 13	1 18	2 6	2 21	3 9	3 24
6	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18
7	1 15	1 22	2 2	2 9	3 3	3 24	4 18	5 12
8	1 21	2 2	2 10	2 18	3 15	4 12	5 9	6 6
9	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0
10	2 6	2 16	2 26	3 9	4 12	5 15	6 18	7 21
11	2 12	2 23	3 7	3 18	4 24	6 3	7 9	8 15
12	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
13	2 24	3 10	3 23	4 9	5 21	7 6	8 18	10 3
14	3 3	3 17	4 4	4 18	6 6	7 21	9 9	10 24
15	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18
16	3 15	4 4	4 20	5 9	7 3	8 24	10 18	12 12
17	3 21	4 11	5 1	5 18	7 15	9 12	11 9	13 6
18	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0
19	4 6	4 25	5 17	6 9	8 12	10 15	12 18	14 21
20	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15
30	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9
40	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3
50	11 3	12 26	14 22	16 18	22 6	27 21	33 9	38 24
60	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18

Length.	Breadth 1 foot 6 inches.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 0 $\frac{3}{4}$	0 0 $\frac{3}{4}$	0 1 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 1 $\frac{3}{4}$	0 2 $\frac{1}{4}$	0 3	0 3 $\frac{1}{4}$
2	0 0 $\frac{3}{4}$	0 1 $\frac{1}{2}$	0 2 $\frac{1}{4}$	0 3	0 3 $\frac{3}{4}$	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{4}$
3	0 1 $\frac{1}{2}$	0 3	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 12	0 15
4	0 2 $\frac{1}{4}$	0 4 $\frac{1}{2}$	0 6 $\frac{3}{4}$	0 9	0 11 $\frac{1}{2}$	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$
5	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3
6	0 3 $\frac{3}{4}$	0 7 $\frac{1}{2}$	0 11 $\frac{1}{2}$	0 15	0 18 $\frac{3}{4}$	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$
7	0 4 $\frac{1}{2}$	0 9	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 9	1 18
8	0 5 $\frac{1}{4}$	0 10 $\frac{1}{2}$	0 15 $\frac{1}{2}$	0 21	0 26 $\frac{1}{2}$	1 4 $\frac{1}{2}$	1 15	1 25 $\frac{1}{2}$
9	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
10	0 6 $\frac{3}{4}$	0 13 $\frac{1}{2}$	0 20 $\frac{1}{2}$	1 0	1 6 $\frac{3}{4}$	1 13 $\frac{1}{2}$	2 0	2 13 $\frac{1}{2}$
11	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21
12	0 8 $\frac{1}{4}$	0 16 $\frac{1}{2}$	0 24 $\frac{1}{2}$	1 6	1 14 $\frac{1}{4}$	1 22 $\frac{1}{2}$	2 12	3 14
13	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9
14	0 9 $\frac{3}{4}$	0 19 $\frac{1}{2}$	1 2 $\frac{1}{2}$	1 12	1 21 $\frac{3}{4}$	2 4 $\frac{1}{2}$	2 24	3 16 $\frac{1}{2}$
15	0 10 $\frac{1}{2}$	0 21	1 4 $\frac{1}{2}$	1 15	1 25 $\frac{1}{2}$	2 9	3 3	3 24
16	0 11 $\frac{1}{4}$	0 22 $\frac{1}{2}$	1 6 $\frac{1}{4}$	1 18	2 2 $\frac{1}{4}$	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$
17	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12
18	0 12 $\frac{1}{2}$	0 25 $\frac{1}{2}$	1 11 $\frac{1}{2}$	1 24	2 9 $\frac{1}{2}$	2 22 $\frac{1}{2}$	3 21	4 19 $\frac{1}{4}$
19	0 13 $\frac{1}{4}$	1 0	1 13 $\frac{1}{4}$	2 0	2 13 $\frac{1}{4}$	3 0	4 0	5 0
20	0 14 $\frac{1}{4}$	1 1 $\frac{1}{4}$	1 15 $\frac{1}{4}$	2 3	2 17 $\frac{1}{4}$	3 4 $\frac{1}{2}$	4 6	5 7 $\frac{1}{2}$
21	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15
22	0 22 $\frac{1}{2}$	1 18	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	6 18	8 9
30	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
50	1 10 $\frac{1}{2}$	2 21	4 4 $\frac{1}{2}$	5 15	6 25 $\frac{1}{2}$	8 9	11 3	13 24
60	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18

	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 4 $\frac{1}{2}$	0 5 $\frac{1}{2}$	0 6	0 6 $\frac{3}{4}$	0 9	0 11 $\frac{1}{2}$	0 13 $\frac{1}{2}$	0 15 $\frac{1}{2}$
2	0 9	0 10 $\frac{1}{2}$	0 12	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 4 $\frac{1}{2}$
3	0 18	0 21	0 24	1 0	1 9	1 18	2 0	2 9
4	1 0	1 4 $\frac{1}{2}$	1 9	1 13 $\frac{1}{2}$	2 0	2 13 $\frac{1}{2}$	3 0	3 13 $\frac{1}{2}$
5	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18
6	1 18	1 25 $\frac{1}{2}$	2 6	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	5 22 $\frac{1}{2}$
7	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0
8	2 9	2 19 $\frac{1}{2}$	3 3	3 13 $\frac{1}{2}$	4 18	5 22 $\frac{1}{2}$	7 0	8 4 $\frac{1}{2}$
9	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
10	3 0	3 13 $\frac{1}{2}$	4 0	4 13 $\frac{1}{2}$	6 0	7 13 $\frac{1}{2}$	9 0	10 13 $\frac{1}{2}$
11	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18
12	3 18	4 7 $\frac{1}{2}$	4 24	5 13 $\frac{1}{2}$	7 9	9 4 $\frac{1}{2}$	11 0	12 22 $\frac{1}{2}$
13	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0
14	4 9	5 1 $\frac{1}{2}$	5 21	6 13 $\frac{1}{2}$	8 18	10 22 $\frac{1}{2}$	13 0	15 4 $\frac{1}{2}$
15	4 18	5 12	6 6	7 0	9 9	11 18	14 0	16 9
16	5 0	5 22 $\frac{1}{2}$	6 18	7 13 $\frac{1}{2}$	10 0	12 13 $\frac{1}{2}$	15 0	17 13 $\frac{1}{2}$
17	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18
18	5 18	6 16 $\frac{1}{2}$	7 15	8 13 $\frac{1}{2}$	11 9	14 4 $\frac{1}{2}$	17 0	19 22 $\frac{1}{2}$
19	6 0	7 0	8 0	9 0	12 0	15 0	18 0	21 0
20	6 9	7 10 $\frac{1}{2}$	8 12	9 13 $\frac{1}{2}$	12 18	15 22 $\frac{1}{2}$	19 0	22 4 $\frac{1}{2}$
30	6 18	7 21	8 24	8 24	10 0	13 9	16 18	23 9
40	10 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0
50	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
60	16 18	19 12	22 6	25 0	33 9	41 18	50 0	58 9
70	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.		Breadth 2 feet.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 0 $\frac{1}{2}$	0 1	0 1 $\frac{1}{2}$	0 2	0 2 $\frac{1}{2}$	0 3	0 4	0 5	
2	0 1	0 2	0 3	0 4	0 5	0 6	0 8	0 10	
3	0 2	0 4	0 6	0 8	0 10	0 12	0 16	0 20	
4	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3	
5	0 4	0 8	0 12	0 16	0 20	0 24	1 5	1 13	
6	0 5	0 10	0 15	0 20	0 25	1 3	1 13	1 23	
7	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6	
8	0 7	0 14	0 21	1 1	1 8	1 15	2 2	2 16	
9	0 8	0 16	0 24	1 5	1 13	1 21	2 10	2 26	
10	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9	
11	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19	
12	0 11	0 22	1 6	1 17	2 1	2 12	3 7	4 2	
13	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12	
14	0 13	0 26	1 12	1 25	2 11	2 24	3 23	4 22	
15	0 14	1 1	1 15	2 2	2 16	3 3	4 4	5 5	
16	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15	
17	0 16	1 5	1 21	2 10	2 26	3 15	4 20	5 25	
18	0 17	1 7	1 24	2 14	3 4	3 21	5 1	6 8	
19	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18	
20	0 19	1 11	2 3	2 22	3 14	4 6	5 17	7 1	
30	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11	
40	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3	
50	1 13	2 26	4 12	5 25	7 11	8 24	11 23	14 23	
60	1 23	3 19	5 15	7 11	9 7	11 3	14 22	18 14	
60	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6	

		Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 6	0 7	0 8	0 9	0 12	0 15	0 18	0 21	
1	0 12	0 14	0 16	0 18	0 24	1 3	1 9	1 15	
2	0 24	1 1	1 5	1 9	1 21	2 6	2 18	3 3	
3	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18	
4	1 21	2 2	2 10	2 18	3 15	4 12	5 9	6 6	
5	2 6	2 16	2 26	3 9	4 12	5 15	6 18	7 21	
6	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9	
7	3 3	3 17	4 4	4 18	6 6	7 21	9 9	10 24	
8	3 15	4 4	4 20	5 9	7 3	8 24	10 18	12 12	
9	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0	
10	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15	
11	4 24	5 19	6 14	7 9	9 21	12 6	14 18	17 3	
12	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18	
13	5 21	6 20	7 19	8 18	11 15	14 12	17 9	20 6	
14	6 6	7 7	8 8	9 9	12 12	15 15	18 18	21 21	
15	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9	
16	7 3	8 8	9 13	10 18	14 6	17 21	21 9	24 24	
17	7 15	8 22	10 2	11 9	15 3	18 24	22 18	26 12	
18	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0	
19	8 12	9 23	11 7	12 18	16 24	21 3	25 9	29 15	
20	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3	
30	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18	
40	17 21	20 20	23 19	26 18	35 15	44 12	53 9	62 6	
50	22 6	25 25	29 17	33 9	44 12	55 15	66 18	77 21	
60	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9	

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.		Breadth 2 feet 6 inches.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	
1	0 0 $\frac{3}{4}$	0 1 $\frac{1}{2}$	0 1 $\frac{1}{2}$	0 2 $\frac{1}{2}$	0 3 $\frac{1}{2}$	0 3 $\frac{1}{2}$	0 5	0 6 $\frac{1}{2}$	
2	0 1 $\frac{1}{2}$	0 2 $\frac{1}{2}$	0 2 $\frac{1}{2}$	0 3 $\frac{1}{2}$	0 5	0 6 $\frac{1}{2}$	0 7 $\frac{1}{2}$	0 10	
3	0 2 $\frac{1}{2}$	0 5	0 7 $\frac{1}{2}$	0 10	0 12 $\frac{1}{2}$	0 15	0 20	0 25	
4	0 3 $\frac{1}{2}$	0 7 $\frac{1}{2}$	0 11 $\frac{1}{2}$	0 15	0 18 $\frac{1}{2}$	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	
5	0 5	0 10	0 15	0 20	0 25	1 3	1 13	1 23	
6	0 6 $\frac{1}{2}$	0 13 $\frac{1}{2}$	0 18 $\frac{1}{2}$	0 25	1 4 $\frac{1}{2}$	1 10 $\frac{1}{2}$	1 23	2 8 $\frac{1}{2}$	
7	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21	
8	0 8 $\frac{1}{2}$	0 17 $\frac{1}{2}$	0 26 $\frac{1}{2}$	1 8	1 16 $\frac{1}{2}$	1 25 $\frac{1}{2}$	2 16	3 5 $\frac{1}{2}$	
9	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19	
10	0 11 $\frac{1}{2}$	0 22 $\frac{1}{2}$	1 6 $\frac{1}{2}$	1 18	2 2 $\frac{1}{2}$	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	
11	0 12 $\frac{1}{2}$	0 25	1 10 $\frac{1}{2}$	1 23	2 8 $\frac{1}{2}$	2 21	3 19	4 17	
12	0 13 $\frac{1}{2}$	1 0 $\frac{1}{2}$	1 14 $\frac{1}{2}$	2 1	2 14 $\frac{1}{2}$	3 1 $\frac{1}{2}$	4 2	5 2 $\frac{1}{2}$	
13	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15	
14	0 16 $\frac{1}{2}$	1 5 $\frac{1}{2}$	1 21 $\frac{1}{2}$	2 11	3 0 $\frac{1}{2}$	3 16 $\frac{1}{2}$	4 22	6 0 $\frac{1}{2}$	
15	0 17 $\frac{1}{2}$	1 8	1 25 $\frac{1}{2}$	2 16	3 6 $\frac{1}{2}$	3 24	5 5	6 13	
16	0 18 $\frac{1}{2}$	1 10 $\frac{1}{2}$	2 2 $\frac{1}{2}$	2 21	3 12 $\frac{1}{2}$	4 4 $\frac{1}{2}$	5 15	6 25 $\frac{1}{2}$	
17	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11	
18	0 21 $\frac{1}{2}$	1 15 $\frac{1}{2}$	2 9 $\frac{1}{2}$	3 4	3 25 $\frac{1}{2}$	4 19 $\frac{1}{2}$	6 8	7 23 $\frac{1}{2}$	
19	0 22 $\frac{1}{2}$	1 18	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	6 18	8 9	
20	0 23 $\frac{1}{2}$	1 20 $\frac{1}{2}$	2 17 $\frac{1}{2}$	3 14	4 10 $\frac{1}{2}$	5 7 $\frac{1}{2}$	7 1	8 21 $\frac{1}{2}$	
20	0 25	1 23	2 21	3 19	4 17	5 15	7 11	9 7	
30	1 10 $\frac{1}{2}$	2 21	4 4 $\frac{1}{2}$	5 15	6 25 $\frac{1}{2}$	8 9	11 3	13 24	
40	1 23	3 19	5 15	7 11	9 7	11 3	14 23	18 14	
50	2 8 $\frac{1}{2}$	4 17	6 25 $\frac{1}{2}$	9 7	11 15 $\frac{1}{2}$	13 24	18 14	23 4	
60	2 21	5 15	8 9	11 3	13 24	16 18	22 6	27 21	
	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.	
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	
1	0 7 $\frac{1}{2}$	0 8 $\frac{1}{2}$	0 10	0 11 $\frac{1}{2}$	0 15	0 18 $\frac{1}{2}$	0 22 $\frac{1}{2}$	0 26 $\frac{1}{2}$	
2	0 15	0 17 $\frac{1}{2}$	0 20	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	1 25 $\frac{1}{2}$	
3	1 3	1 8	1 13	1 18	2 6	2 21	3 9	3 24	
4	1 18	1 25 $\frac{1}{2}$	2 6	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	5 22 $\frac{1}{2}$	
5	2 6	2 16	2 26	3 9	4 12	5 15	6 18	7 21	
6	2 21	3 6 $\frac{1}{2}$	3 19	4 4 $\frac{1}{2}$	5 15	6 25 $\frac{1}{2}$	8 9	9 19 $\frac{1}{2}$	
7	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18	
8	3 24	4 14 $\frac{1}{2}$	5 5	6 22 $\frac{1}{2}$	7 21	9 19 $\frac{1}{2}$	11 18	13 16 $\frac{1}{2}$	
9	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15	
10	5 0	5 22 $\frac{1}{2}$	6 18	7 13 $\frac{1}{2}$	10 0	12 13 $\frac{1}{2}$	15 0	17 13 $\frac{1}{2}$	
10	5 15	6 13	7 11	8 9	11 3	13 24	16 18	19 12	
11	6 3	7 3 $\frac{1}{2}$	8 4	9 4 $\frac{1}{2}$	12 6	15 7 $\frac{1}{2}$	18 9	21 10 $\frac{1}{2}$	
12	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9	
13	7 6	8 11 $\frac{1}{2}$	9 17	10 22 $\frac{1}{2}$	14 12	18 1 $\frac{1}{2}$	21 18	25 7 $\frac{1}{2}$	
14	7 21	9 2	10 10	11 18	15 15	19 12	23 9	27 6	
15	8 9	9 19 $\frac{1}{2}$	11 3	12 13 $\frac{1}{2}$	16 18	20 22 $\frac{1}{2}$	25 0	29 4 $\frac{1}{2}$	
16	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3	
17	9 12	11 0 $\frac{1}{2}$	12 16	14 4 $\frac{1}{2}$	18 24	23 16 $\frac{1}{2}$	28 9	33 1 $\frac{1}{2}$	
18	10 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0	
19	10 15	12 8 $\frac{1}{2}$	14 2	15 22 $\frac{1}{2}$	21 3	26 10 $\frac{1}{2}$	31 18	36 25 $\frac{1}{2}$	
20	11 3	12 26	14 23	16 18	22 6	27 21	33 9	38 24	
30	16 18	19 12	23 6	25 0	33 9	41 18	60 0	58 9	
40	22 6	25 25	29 17	33 9	44 12	55 15	66 18	77 21	
50	27 21	32 11	37 1	41 18	55 15	69 12	83 9	97 6	
60	33 9	38 24	44 12	50 0	66 18	83 9	100 0	116 18	

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.	Breadth 3 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{4}$	0 0 $\frac{1}{4}$	0 1 $\frac{1}{2}$	0 2 $\frac{1}{4}$	0 3	0 3 $\frac{1}{2}$	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$
1	0 1 $\frac{1}{2}$	0 3	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{2}$	0 9	0 12	0 15
2	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3
3	0 4 $\frac{1}{2}$	0 9	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 9	1 18
4	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
5	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21
6	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9
7	0 10 $\frac{1}{2}$	0 21	1 4 $\frac{1}{2}$	1 15	1 25 $\frac{1}{2}$	2 9	3 3	3 24
8	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12
9	0 13 $\frac{1}{2}$	1 0	1 13 $\frac{1}{2}$	2 0	2 13 $\frac{1}{2}$	3 0	4 0	5 0
10	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15
11	0 16 $\frac{1}{2}$	1 6	1 22 $\frac{1}{2}$	2 12	3 1 $\frac{1}{2}$	3 18	4 24	6 3
12	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18
13	0 19 $\frac{1}{2}$	1 12	2 4 $\frac{1}{2}$	2 24	3 16 $\frac{1}{2}$	4 9	5 21	7 6
14	0 21	1 15	2 9	3 3	3 24	4 18	6 6	7 21
15	0 22 $\frac{1}{2}$	1 18	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	6 18	8 9
16	0 24	1 21	2 18	3 15	4 12	5 9	7 3	8 24
17	0 25 $\frac{1}{2}$	1 24	2 22 $\frac{1}{2}$	3 21	4 19 $\frac{1}{2}$	5 18	7 15	9 12
18	1 0	2 0	3 0	4 0	5 0	6 0	8 0	10 0
19	1 1 $\frac{1}{2}$	2 3	3 4 $\frac{1}{2}$	4 6	5 7 $\frac{1}{2}$	6 9	8 12	10 15
20	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
30	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18
40	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6
60	2 21	5 15	8 9	11 3	13 24	16 18	22 6	27 21
80	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9

Ft.	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{4}$	0 9	0 10 $\frac{1}{2}$	0 12	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 4 $\frac{1}{2}$
1	0 18	0 21	0 24	1 0	1 9	1 18	2 0	2 9
2	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18
3	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0
4	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
5	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18
6	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0
7	4 18	5 12	6 6	7 0	9 9	11 18	14 0	16 9
8	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18
9	6 0	7 0	8 0	9 0	12 0	15 0	18 0	21 0
10	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9
11	7 9	8 15	9 21	11 0	14 18	18 9	22 0	25 18
12	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0
13	8 18	10 3	11 15	13 0	17 9	21 18	26 0	30 9
14	9 9	10 24	12 12	14 0	18 18	23 9	28 0	32 18
15	10 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0
16	10 18	12 12	14 6	16 0	21 9	26 18	32 0	37 9
17	11 9	13 6	15 3	17 0	22 18	28 9	34 0	39 18
18	12 0	14 0	16 0	18 0	24 0	30 0	36 0	42 0
19	12 18	14 21	16 24	19 0	25 9	31 18	38 0	44 9
20	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
30	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0
40	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9
50	33 9	38 24	44 12	50 0	66 18	83 9	100 0	116 18
60	40 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0

Length.	Breadth 4 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 1	0 2	0 3	0 4	0 5	0 6	0 8	0 10
2	0 2	0 4	0 6	0 8	0 10	0 12	0 16	0 20
3	0 4	0 8	0 12	0 16	0 20	0 24	1 5	1 13
4	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
5	0 8	0 16	0 24	1 5	1 13	1 21	2 10	2 26
6	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19
7	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12
8	0 14	1 1	1 15	2 2	2 16	3 3	4 4	5 5
9	0 16	1 5	1 21	2 10	2 26	3 15	4 20	5 25
10	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18
11	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11
12	0 22	1 17	2 12	3 7	4 2	4 24	6 14	8 4
13	0 24	2 1	2 18	3 15	4 12	5 9	7 3	8 24
14	0 26	2 5	2 24	3 23	4 22	5 21	7 19	9 17
15	1 1	2 2	3 3	4 4	5 5	6 6	8 8	10 10
16	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
17	1 5	2 10	3 15	4 20	5 25	7 3	9 13	11 23
18	1 7	2 14	3 21	5 1	6 8	7 15	10 2	12 16
19	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9
20	1 11	2 22	4 6	5 17	7 1	8 12	11 7	14 2
21	1 13	2 26	4 12	5 25	7 11	8 24	11 23	14 23
22	1 15	2 30	4 18	5 34	8 1	9 12	12 13	15 12
23	1 17	2 34	4 24	5 43	9 1	10 12	13 13	16 12
24	1 19	2 38	4 30	5 52	10 1	11 12	14 13	17 12
25	1 21	2 42	4 36	5 61	11 1	12 12	15 13	18 12
26	1 23	2 46	4 42	5 70	12 1	13 12	16 13	19 12
27	1 25	2 50	4 48	5 79	13 1	14 12	17 13	20 12
28	1 27	2 54	4 54	5 88	14 1	15 12	18 13	21 12
29	1 29	2 58	5 0	5 97	15 1	16 12	19 13	22 12
30	1 31	3 0	5 6	5 106	16 1	17 12	20 13	23 12
31	1 33	3 4	5 12	5 115	17 1	18 12	21 13	24 12
32	1 35	3 8	5 18	5 124	18 1	19 12	22 13	25 12
33	1 37	3 12	5 24	5 133	19 1	20 12	23 13	26 12
34	1 39	3 16	5 30	5 142	20 1	21 12	24 13	27 12
35	1 41	3 20	5 36	5 151	21 1	22 12	25 13	28 12
36	1 43	3 24	5 42	5 160	22 1	23 12	26 13	29 12
37	1 45	3 28	5 48	5 169	23 1	24 12	27 13	30 12
38	1 47	3 32	5 54	5 178	24 1	25 12	28 13	31 12
39	1 49	3 36	6 0	5 187	25 1	26 12	29 13	32 12
40	1 51	3 40	6 6	5 196	26 1	27 12	30 13	33 12
41	1 53	3 44	6 12	5 205	27 1	28 12	31 13	34 12
42	1 55	3 48	6 18	5 214	28 1	29 12	32 13	35 12
43	1 57	3 52	6 24	5 223	29 1	30 12	33 13	36 12
44	1 59	3 56	6 30	5 232	30 1	31 12	34 13	37 12
45	2 0	4 0	6 36	5 241	31 1	32 12	35 13	38 12
46	2 2	4 4	6 42	5 250	32 1	33 12	36 13	39 12
47	2 4	4 8	6 48	5 259	33 1	34 12	37 13	40 12
48	2 6	4 12	6 54	5 268	34 1	35 12	38 13	41 12
49	2 8	4 16	7 0	5 277	35 1	36 12	39 13	42 12
50	2 10	4 20	7 6	5 286	36 1	37 12	40 13	43 12
51	2 12	4 24	7 12	5 295	37 1	38 12	41 13	44 12
52	2 14	4 28	7 18	5 304	38 1	39 12	42 13	45 12
53	2 16	4 32	7 24	5 313	39 1	40 12	43 13	46 12
54	2 18	4 36	7 30	5 322	40 1	41 12	44 13	47 12
55	2 20	4 40	7 36	5 331	41 1	42 12	45 13	48 12
56	2 22	4 44	7 42	5 340	42 1	43 12	46 13	49 12
57	2 24	4 48	7 48	5 349	43 1	44 12	47 13	50 12
58	2 26	4 52	7 54	5 358	44 1	45 12	48 13	51 12
59	2 28	4 56	8 0	5 367	45 1	46 12	49 13	52 12
60	2 30	5 0	8 6	5 376	46 1	47 12	50 13	53 12

Length.	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 12	0 14	0 16	0 18	0 24	1 3	1 9	1 15
2	0 24	1 1	1 5	1 9	1 21	2 6	2 18	3 3
3	1 21	2 2	2 10	2 18	3 15	4 12	5 9	6 6
4	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
5	3 15	4 4	4 20	5 9	7 3	8 24	10 18	12 12
6	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15
7	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18
8	6 6	7 7	8 8	9 9	12 12	15 15	18 18	21 21
9	7 3	8 8	9 13	10 18	14 6	17 21	21 9	24 24
10	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0
11	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3
12	9 21	11 11	13 1	14 18	19 15	24 12	29 9	34 6
13	10 18	12 12	14 6	16 0	21 9	26 18	32 0	37 9
14	11 15	13 13	15 11	17 9	23 3	28 24	34 18	40 12
15	12 12	14 14	16 16	18 18	24 24	31 3	37 9	43 15
16	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
17	14 6	16 16	18 26	21 9	28 12	35 15	42 18	49 21
18	15 3	17 17	20 4	22 18	30 6	37 21	45 9	52 24
19	16 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0
20	16 24	19 19	22 14	25 9	33 21	42 6	50 18	59 3
21	17 21	20 20	23 19	26 18	35 15	44 12	53 9	62 6
22	18 18	21 3	23 15	28 0	37 9	46 18	56 0	64 9
23	19 15	22 13	24 11	29 9	39 3	48 24	58 18	66 12
24	20 12	23 23	25 7	30 18	41 18	50 12	60 18	68 15
25	21 9	24 23	26 3	32 6	43 12	52 6	62 18	70 18
26	22 6	25 23	27 9	34 0	45 6	54 12	64 18	72 18
27	23 3	26 23	28 15	35 18	47 6	56 12	66 18	74 18
28	24 0	27 23	29 21	36 36	49 12	58 12	68 18	76 18
29	25 0	28 23	30 27	38 0	51 12	60 12	70 18	78 18
30	26 0	29 23	31 33	39 18	53 12	62 12	72 18	80 18
31	27 0	30 23	32 39	40 36	55 12	64 12	74 18	82 18
32	28 0	31 23	33 45	42 0	57 12	66 12	76 18	84 18
33	29 0	32 23	34 51	43 18	59 12	68 12	78 18	86 18
34	30 0	33 23	35 57	45 0	61 12	70 12	80 18	88 18
35	31 0	34 23	36 63	46 36	63 12	72 12	82 18	90 18
36	32 0	35 23	37 69	48 0	65 12	74 12	84 18	92 18
37	33 0	36 23	38 75	49 36	67 12	76 12	86 18	94 18
38	34 0	37 23	39 81	51 0	69 12	78 12	88 18	96 18
39	35 0	38 23	40 87	52 36	71 12	80 12	90 18	98 18
40	36 0	39 23	41 93	54 0	73 12	82 12	92 18	100 18
41	37 0	40 23	42 99	55 36	75 12	84 12	94 18	102 18
42	38 0	41 23	43 105	57 0	77 12	86 12	96 18	104 18
43	39 0	42 23	44 111	58 36	79 12	88 12	98 18	106 18
44	40 0	43 23	45 117	60 0	81 12	90 12	100 18	108 18
45	41 0	44 23	46 123	61 36	83 12	92 12	102 18	110 18
46	42 0	45 23	47 129	63 0	85 12	94 12	104 18	112 18
47	43 0	46 23	48 135	64 36	87 12	96 12	106 18	114 18
48	44 0	47 23	49 141	66 0	89 12	98 12	108 18	116 18
49	45 0	48 23	50 147	67 36	91 12	100 12	110 18	118 18
50	46 0	49 23	51 153	69 0	93 12	102 12	112 18	120 18
51	47 0	50 23	52 159	70 36	95 12	104 12	114 18	122 18
52	48 0	51 23	53 165	72 0	97 12	106 12	116 18	124 18
53	49 0	52 23	54 171	73 36	99 12	108 12	118 18	126 18
54	50 0	53 23	55 177	75 0	101 12	110 12	120 18	128 18
55	51 0	54 23	56 183	76 36	103 12	112 12	122 18	130 18
56	52 0	55 23	57 189	78 0	105 12	114 12	124 18	132 18
57	53 0	56 23	58 195	79 36	107 12	116 12	126 18	134 18
58	54 0	57 23	59 201	81 0	109 12	118 12	128 18	136 18
59	55 0	58 23	60 207	82 36	111 12	120 12	130 18	138 18
60	56 0	59 23	61 213	84 0	113 12	122 12	132 18	140 18

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.	Breadth 5 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 1½	0 2½	0 3½	0 5	0 6½	0 7½	0 10	0 12½
2	0 2½	0 5	0 7½	0 10	0 12½	0 15	0 20	0 25
3	0 5	0 10	0 15	0 20	0 25	1 3	1 13	1 23
4	0 7½	0 15	0 22½	1 3	1 10½	1 18	2 6	2 21
5	0 10	0 20	1 3	1 13	1 23	2 6	2 26	3 19
6	0 12½	0 25	1 10½	1 23	2 8½	2 21	3 19	4 17
7	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15
8	0 17½	1 8	1 25½	2 16	3 6½	3 24	5 5	6 13
9	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11
10	0 22½	1 18	2 13½	3 9	4 4½	5 0	6 18	8 9
11	0 25	1 23	2 21	3 19	4 17	5 15	7 11	9 7
12	1 0½	2 1	3 1½	4 2	5 2½	6 3	8 4	10 5
13	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
14	1 5½	2 11	3 16½	4 22	6 0½	7 6	9 17	12 1
15	1 8	2 16	3 24	5 5	6 13	7 21	10 10	12 26
16	1 10½	2 21	4 4½	5 15	6 25½	8 9	11 3	13 24
17	1 13	2 26	4 12	5 25	7 11	8 24	11 23	14 22
18	1 15½	3 4	4 19½	6 8	7 23½	9 12	12 16	15 20
19	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18
20	1 20½	3 14	5 7½	7 1	8 21½	10 15	14 2	17 16
30	1 23	3 19	5 15	7 11	9 7	11 3	14 22	18 14
40	2 21	5 15	8 9	11 3	13 24	16 18	22 6	27 21
50	3 19	7 11	11 3	14 22	18 14	22 6	29 17	37 1
60	4 17	9 7	13 24	18 14	23 4	27 21	37 1	46 8
60	5 15	11 3	16 18	22 6	27 21	33 9	44 12	55 15

	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
½	0 15	0 17½	0 20	0 22½	1 3	1 10½	1 18	1 25½
1	1 3	1 8	1 13	1 18	2 6	2 21	3 9	3 24
2	2 6	2 16	2 26	3 9	4 12	5 15	6 18	7 21
3	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18
4	4 12	5 5	5 25	6 18	8 24	11 3	13 9	15 15
5	5 15	6 13	7 11	8 9	11 3	13 24	16 18	19 12
6	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9
7	7 21	9 2	10 10	11 18	15 15	19 12	23 9	27 6
8	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3
9	10 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0
10	11 3	12 26	14 22	16 18	22 6	27 21	33 9	38 24
11	12 6	14 7	16 8	18 9	24 12	30 15	36 18	42 21
12	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
13	14 12	16 23	19 7	21 18	28 24	36 3	43 9	50 15
14	15 15	18 4	20 20	23 9	31 3	38 24	46 18	54 12
15	16 18	19 12	22 6	25 0	33 9	41 18	50 0	58 9
16	17 21	20 20	23 19	26 18	35 15	44 12	53 9	62 6
17	18 24	22 1	25 5	28 9	37 21	47 6	56 18	66 3
18	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0
19	21 3	24 17	28 4	31 18	42 6	52 21	63 9	73 24
20	22 6	25 25	29 17	33 9	44 12	55 15	66 18	77 21
30	33 9	38 24	44 12	50 0	66 18	83 9	100 0	116 18
40	44 12	51 23	59 7	66 18	88 24	111 3	133 9	155 15
50	55 15	64 22	73 2	83 9	111 3	138 24	166 18	194 12
60	66 18	77 21	88 24	100 0	133 9	166 18	200 0	233 9

Length.	Breadth 6 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 1½	0 3	0 4½	0 6	0 7½	0 9	0 12	0 15
2	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3
3	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
4	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9
5	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12
6	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15
7	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18
8	0 21	1 15	2 9	3 3	3 24	4 18	6 6	7 21
9	0 24	1 21	2 18	3 15	4 12	5 9	7 3	8 24
10	1 0	2 0	3 0	4 0	5 0	6 0	8 0	10 0
11	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
12	1 6	2 12	3 18	4 24	6 3	7 9	9 21	12 6
13	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9
14	1 12	2 24	4 9	5 21	7 6	8 18	11 15	14 12
15	1 15	3 3	4 18	6 6	7 21	9 9	12 12	15 15
16	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18
17	1 21	3 15	5 9	7 3	8 24	10 18	14 6	17 21
18	1 24	3 21	5 18	7 15	9 12	11 9	15 3	18 24
19	2 0	4 0	6 0	8 0	10 0	12 0	16 0	20 0
20	2 3	4 6	6 9	8 12	10 15	12 18	16 24	21 3
25	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6
30	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9
40	4 12	8 24	13 9	17 21	22 6	26 18	35 15	44 12
50	5 15	11 3	16 18	22 6	27 21	33 9	44 12	55 15
60	6 18	13 9	20 0	26 18	33 9	40 0	53 9	66 18

Ft.	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 18	0 21	0 24	1 0	1 9	1 18	2 0	2 9
2	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18
3	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
4	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0
5	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18
6	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9
7	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0
8	9 9	10 24	12 12	14 0	18 18	23 9	28 0	32 18
9	10 18	12 12	14 6	16 0	21 9	26 18	32 0	37 9
10	12 0	14 0	16 0	18 0	24 0	30 0	36 0	42 0
11	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
12	14 18	17 3	19 15	22 0	29 9	36 18	44 0	51 9
13	16 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0
14	17 9	20 6	23 3	26 0	34 18	43 9	52 0	60 18
15	18 18	21 21	24 24	28 0	37 9	46 18	56 0	65 9
16	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0
17	21 9	24 24	28 12	32 0	42 18	53 9	64 0	74 18
18	22 18	26 12	30 6	34 0	45 9	56 18	68 0	79 9
19	24 0	28 0	32 0	36 0	48 0	60 0	72 0	84 0
20	25 9	29 15	33 21	38 0	50 18	63 9	76 0	88 18
25	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9
30	40 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0
40	53 9	62 6	71 3	80 0	106 18	133 9	160 0	186 18
50	66 18	77 21	88 24	100 0	133 9	166 18	200 0	233 9
60	80 0	93 9	106 18	120 0	160 0	200 0	240 0	280 0

TABLE II.—CUBIC CONTENT OF ORLONG STACKS.

Length.	Breadth 7 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 1½	0 3½	0 5½	0 7	0 8½	0 10½	0 14	0 17½
2	0 3½	0 7	0 10½	0 14	0 17½	0 21	1 1	1 8
3	0 7	0 14	0 21	1 1	1 8	1 15	2 2	2 16
4	0 10½	0 21	1 4½	1 15	1 25½	2 9	3 3	3 24
5	0 14	1 1	1 15	2 2	2 16	3 3	4 4	5 5
6	0 17½	1 8	1 25½	2 16	3 6½	3 24	5 5	6 13
7	0 21	1 15	2 9	3 3	3 24	4 18	6 6	7 21
8	0 24½	1 22	2 19½	3 17	4 14½	5 12	7 7	9 2
9	1 1	2 2	3 3	4 4	5 5	6 6	8 8	10 10
10	1 4½	2 9	3 13½	4 18	5 22½	7 0	9 9	11 18
11	1 8	2 16	3 24	5 5	6 13	7 21	10 10	12 26
12	1 11½	2 23	4 7½	5 19	7 3½	8 15	11 11	14 7
13	1 15	3 3	4 18	6 6	7 21	9 9	12 12	15 15
14	1 18½	3 10	5 1½	6 20	8 11½	10 3	13 13	16 23
15	1 22	3 17	5 12	7 7	9 2	10 24	14 14	18 4
16	1 25½	3 24	5 22½	7 21	9 19½	11 18	15 15	19 12
17	2 2	4 4	6 6	8 8	10 10	12 12	16 16	20 20
18	2 5½	4 11	6 16½	8 22	11 0½	13 6	17 17	22 1
19	2 9	4 18	7 0	9 9	11 18	14 0	18 18	23 9
20	2 12½	4 25	7 10½	9 23	12 8½	14 21	19 19	24 17
21	2 16	5 5	7 21	10 10	12 26	15 15	20 20	25 25
22	3 24	7 21	11 18	15 15	19 12	23 9	31 3	38 24
23	5 5	10 10	15 15	20 20	25 25	31 3	41 13	51 23
24	6 13	12 26	19 12	25 25	32 11	38 24	51 23	64 22
25	7 21	15 15	23 9	31 3	38 24	46 18	62 6	77 21

	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 21	0 24½	1 1	1 4½	1 15	1 25½	2 9	2 19½
2	1 15	1 22	2 2	2 9	3 3	3 24	4 18	5 12
3	3 3	3 17	4 4	4 18	6 6	7 21	9 9	10 24
4	4 18	5 12	6 6	7 0	9 9	11 18	14 0	16 9
5	6 6	7 7	8 8	9 9	12 12	15 15	18 18	21 21
6	7 21	9 2	10 10	11 18	15 15	19 12	23 9	27 6
7	9 9	10 24	12 12	14 0	18 18	23 9	28 0	32 18
8	10 24	12 19	14 14	16 9	21 21	27 6	32 18	38 3
9	12 12	14 14	16 16	18 18	24 24	31 3	37 9	43 15
10	14 0	16 9	18 18	21 0	28 0	35 0	42 0	49 0
11	15 15	18 4	20 20	23 9	31 3	38 24	46 18	54 12
12	17 3	19 26	22 22	25 18	34 6	42 21	51 9	59 24
13	18 18	21 21	24 24	28 0	37 9	46 18	56 0	65 9
14	20 6	23 16	26 26	30 9	40 12	50 15	60 18	70 21
15	21 21	25 11	29 1	32 18	43 15	54 12	65 9	76 6
16	23 9	27 6	31 3	35 0	46 18	58 9	70 0	81 18
17	24 24	29 1	33 5	37 9	49 21	62 6	74 18	87 3
18	26 12	30 23	35 7	39 18	52 24	66 3	79 9	92 15
19	28 0	32 18	37 9	42 0	56 0	70 0	84 0	98 0
20	29 15	34 13	39 11	44 9	59 3	73 24	88 18	103 12
21	31 3	36 8	41 13	46 18	62 6	77 21	93 9	108 24
22	46 18	54 12	62 6	70 0	93 9	116 18	140 0	163 9
23	62 6	72 16	82 26	93 9	124 12	155 15	186 18	217 21
24	77 21	90 20	103 19	116 18	155 15	194 12	233 9	272 6
25	93 9	108 24	124 12	140 0	186 18	233 9	280 0	326 18

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.		Breadth 8 feet.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 2	0 4	0 6	0 8	0 10	0 12	0 16	0 20	0 20
1	0 4	0 8	0 12	0 16	0 20	0 24	1 5	1 13	1 13
2	0 8	0 16	2 24	1 5	1 13	1 21	2 10	2 26	2 26
3	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12	4 12
4	0 16	1 5	1 21	2 10	2 26	3 15	4 20	5 25	5 25
5	0 20	1 13	2 6	2 26	3 19	4 12	5 25	7 11	7 11
6	0 24	1 21	2 18	3 15	4 12	5 9	7 3	8 24	8 24
7	1 1	2 2	3 3	4 4	5 5	6 6	8 8	10 10	10 10
8	1 5	2 10	3 15	4 20	5 25	7 3	9 13	11 23	11 23
9	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9	13 9
10	1 13	2 26	4 12	5 25	7 11	8 24	11 23	14 22	14 22
11	1 17	3 7	4 24	6 14	8 4	9 21	13 1	16 8	16 8
12	1 21	3 15	5 9	7 3	8 24	10 18	14 6	17 21	17 21
13	1 25	3 23	5 21	7 19	9 17	11 15	15 11	19 7	19 7
14	2 2	4 4	6 6	8 8	10 10	12 12	16 16	20 20	20 20
15	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6	22 6
16	2 10	4 20	7 3	9 13	11 23	14 6	18 26	23 19	23 19
17	2 14	5 1	7 15	10 2	12 16	15 3	20 4	25 5	25 5
18	2 18	5 9	8 0	10 18	13 9	16 0	21 9	26 18	26 18
19	2 22	5 17	8 12	11 7	14 2	16 24	22 14	28 4	28 4
20	2 26	5 25	8 24	11 23	14 22	17 21	23 19	29 17	29 17
30	4 12	8 24	13 9	17 21	22 6	26 18	35 15	44 12	44 12
40	5 25	11 23	17 21	23 19	29 17	35 15	47 11	59 7	59 7
50	7 11	14 22	22 6	29 17	37 1	44 12	59 7	74 2	74 2
60	8 24	17 21	26 18	35 15	44 12	53 9	71 3	88 24	88 24

Length.		Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
		yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 24	1 1	1 5	1 9	1 21	2 6	2 18	3 3	3 3
1	1 21	2 2	2 10	2 18	3 15	4 12	5 9	6 6	6 6
2	3 15	4 4	4 20	5 9	7 3	8 24	10 18	12 12	12 12
3	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18	18 18
4	7 3	8 8	9 13	10 18	14 6	17 21	21 9	24 24	24 24
5	8 24	10 10	11 23	13 9	17 21	22 6	26 18	31 3	31 3
6	10 18	12 12	14 6	16 0	21 9	26 18	32 0	37 9	37 9
7	12 12	14 14	16 16	18 18	24 24	31 3	37 9	43 15	43 15
8	14 6	16 16	18 26	21 9	28 12	35 15	42 18	49 21	49 21
9	16 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0	56 0
10	17 21	20 20	23 19	26 18	35 15	44 12	53 9	62 6	62 6
11	19 15	22 22	26 2	29 9	39 3	48 24	58 18	68 12	68 12
12	21 9	24 24	28 12	32 0	42 18	53 9	64 0	74 18	74 18
13	23 3	26 26	30 22	34 18	46 6	57 21	69 9	80 24	80 24
14	24 24	29 1	33 5	37 9	49 21	62 6	74 18	87 3	87 3
15	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9	93 9
16	28 12	33 5	37 25	42 18	56 24	71 3	85 9	99 15	99 15
17	30 6	35 7	40 8	45 9	60 12	75 15	90 18	105 21	105 21
18	32 0	37 9	42 18	48 0	64 0	80 0	96 0	112 0	112 0
19	33 21	39 11	45 1	50 18	67 15	84 12	101 9	118 6	118 6
20	35 15	41 13	47 11	53 9	71 3	88 24	106 18	124 12	124 12
30	53 9	62 6	71 3	80 0	106 18	133 9	160 0	186 18	186 18
40	71 3	82 26	94 22	106 18	142 6	177 21	213 9	248 24	248 24
50	88 24	103 19	118 14	133 9	177 21	222 6	263 18	311 3	311 3
60	106 18	124 12	142 6	160 0	213 9	266 18	320 0	373 9	373 9

Length.		Breadth 9 feet.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 2½	0 4½	0 6½	0 9	0 11½	0 13½	0 18	0 22½	
2	0 4½	0 9	0 13½	0 18	0 22½	1 0	1 9	1 18	
3	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9	
4	0 13½	1 0	1 13½	2 0	2 13½	3 0	4 0	5 0	
5	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18	
6	0 22½	1 18	2 13½	3 9	4 4½	5 0	6 18	8 9	
7	1 0	2 0	3 0	4 0	5 0	6 0	8 0	10 0	
8	1 4½	2 9	3 13½	4 18	5 22½	7 0	9 9	11 18	
9	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9	
10	1 13½	3 0	4 13½	6 0	7 13½	9 0	12 0	15 0	
11	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18	
12	1 22½	3 18	5 13½	7 9	9 4½	11 0	14 18	18 9	
13	2 0	4 0	6 0	8 0	10 0	12 0	16 0	20 0	
14	2 4½	4 9	6 13½	8 18	10 22½	13 0	17 9	21 18	
15	2 9	4 18	7 0	9 9	11 18	14 0	18 18	23 9	
16	2 13½	5 0	7 13½	10 0	12 13½	15 0	20 0	25 0	
17	2 18	5 9	8 0	10 18	13 9	16 0	21 9	26 18	
18	2 22½	5 18	8 13½	11 9	14 4½	17 0	22 18	28 9	
19	3 0	6 0	9 0	12 0	15 0	18 0	24 0	30 0	
20	3 4½	6 9	9 13½	12 18	15 22½	19 0	25 9	31 18	
21	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9	
22	3 13½	7 0	10 13½	14 0	17 13½	21 0	27 9	34 18	
23	3 18	7 9	11 0	14 18	18 9	22 0	28 18	36 9	
24	3 22½	7 18	11 13½	15 0	19 13½	23 0	29 18	38 9	
25	4 0	8 0	12 0	16 0	20 0	24 0	30 0	40 0	
26	4 4½	8 9	12 18	17 0	21 9	25 0	31 9	41 18	
27	4 9	8 18	13 0	18 0	22 18	26 0	32 18	43 9	
28	4 13½	9 0	13 13½	19 0	24 0	27 0	33 9	45 0	
29	4 18	9 9	14 0	20 0	25 9	28 0	34 18	46 18	
30	4 22½	9 18	14 13½	21 0	26 18	29 0	35 9	48 9	
31	5 0	10 0	15 0	22 0	28 0	30 0	36 0	50 0	
32	5 4½	10 9	15 13½	23 0	29 9	31 0	37 9	51 18	
33	5 9	10 18	16 0	24 0	30 18	32 0	38 18	53 9	
34	5 13½	11 0	16 13½	25 0	31 13½	33 0	39 18	55 0	
35	5 18	11 9	17 0	26 0	32 18	34 0	40 18	56 18	
36	5 22½	11 18	17 13½	27 0	33 13½	35 0	41 18	58 9	
37	6 0	12 0	18 0	28 0	34 18	36 0	42 18	60 0	
38	6 4½	12 9	18 13½	29 0	35 13½	37 0	43 18	61 18	
39	6 9	12 18	19 0	30 0	36 18	38 0	44 18	63 9	
40	6 13½	13 0	20 0	31 0	37 13½	39 0	45 18	65 0	
41	6 18	13 9	20 13½	32 0	38 18	40 0	46 18	66 18	
42	6 22½	14 0	21 0	33 0	39 13½	41 0	47 18	68 9	
43	7 0	14 9	21 13½	34 0	40 18	42 0	48 18	70 0	
44	7 4½	14 18	22 0	35 0	41 13½	43 0	49 18	71 18	
45	7 9	15 0	22 13½	36 0	42 18	44 0	50 18	73 9	
46	7 13½	15 9	23 0	37 0	43 13½	45 0	51 18	75 0	
47	7 18	15 18	23 13½	38 0	44 18	46 0	52 18	76 18	
48	7 22½	16 0	24 0	39 0	45 13½	47 0	53 18	78 9	
49	8 0	16 9	24 13½	40 0	46 18	48 0	54 18	80 0	
50	8 4½	16 18	25 0	41 0	47 13½	49 0	55 18	81 18	
51	8 9	17 0	25 13½	42 0	48 18	50 0	56 18	83 9	
52	8 13½	17 9	26 0	43 0	49 13½	51 0	57 18	85 0	
53	8 18	17 18	26 13½	44 0	50 18	52 0	58 18	86 18	
54	8 22½	18 0	27 0	45 0	51 13½	53 0	59 18	88 9	
55	9 0	18 9	27 13½	46 0	52 18	54 0	60 18	90 0	
56	9 4½	18 18	28 0	47 0	53 13½	55 0	61 18	91 18	
57	9 9	19 0	28 13½	48 0	54 18	56 0	62 18	93 9	
58	9 13½	19 9	29 0	49 0	55 13½	57 0	63 18	95 0	
59	9 18	19 18	29 13½	50 0	56 18	58 0	64 18	96 18	
60	10 0	20 0	30 0	51 0	57 13½	59 0	65 18	98 9	

Length.		Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
		yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	1 0	1 4½	1 9	1 13½	2 0	2 13½	3 0	3 13½	
2	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0	
3	3 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0	
4	4 0	7 0	8 0	9 0	12 0	15 0	18 0	21 0	
5	5 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0	
6	6 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0	
7	7 0	14 0	16 0	18 0	24 0	30 0	36 0	42 0	
8	8 0	16 9	18 18	21 0	28 0	35 0	42 0	49 0	
9	9 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0	
10	10 0	21 0	24 0	27 0	36 0	45 0	54 0	63 0	
11	11 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0	
12	12 0	25 18	29 9	33 0	44 0	55 0	66 0	77 0	
13	13 0	28 0	32 0	36 0	48 0	60 0	72 0	84 0	
14	14 0	30 9	34 18	39 0	52 0	65 0	78 0	91 0	
15	15 0	32 18	37 9	42 0	56 0	70 0	84 0	98 0	
16	16 0	35 0	40 0	45 0	60 0	75 0	90 0	105 0	
17	17 0	37 9	42 18	48 0	64 0	80 0	96 0	112 0	
18	18 0	39 18	45 9	51 0	68 0	85 0	102 0	119 0	
19	19 0	42 0	48 0	54 0	72 0	90 0	108 0	126 0	
20	20 0	44 9	50 18	57 0	76 0	95 0	114 0	133 0	
21	21 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0	
22	22 0	49 0	56 0	63 0	84 0	105 0	126 0	147 0	
23	23 0	51 9	58 18	66 0	88 0	110 0	132 0	154 0	
24	24 0	54 0	61 0	69 0	92 0	115 0	138 0	161 0	
25	25 0	56 18	63 18	72 0	96 0	120 0	144 0	168 0	
26	26 0	59 9	66 0	75 0	100 0	125 0	150 0	175 0	
27	27 0	61 18	68 18	78 0	104 0	130 0	156 0	182 0	
28	28 0	64 0	71 0	81 0	108 0	135 0	162 0	189 0	
29	29 0	66 18	73 18	84 0	112 0	140 0	168 0	196 0	
30	30 0	69 9	76 0	87 0	116 0	145 0	174 0	203 0	
31	31 0	71 18	78 18	90 0	120 0	150 0	180 0	210 0	
32	32 0	74 0	81 0	93 0	124 0	155 0	186 0	217 0	
33	33 0	76 18	83 18	96 0	128 0	160 0	192 0	224 0	
34	34 0	79 9	86 0	99 0	132 0	165 0	198 0	231 0	
35	35 0	81 18	88 18	102 0	136 0	170 0	204 0	238 0	
36	36 0	84 0	91 0	105 0	140 0	175 0	210 0	245 0	
37	37 0	86 18	93 18	108 0	144 0	180 0	216 0	252 0	
38	38 0	89 9	96 0	111 0	148 0	185 0	222 0	259 0	
39	39 0	91 18	98 18	114 0	152 0	190 0	228 0	266 0	
40	40 0	94 0	101 0	117 0	156 0	195 0	234 0	273 0	
41	41 0	96 18	103 18	120 0	160 0	200 0	240 0	280 0	
42	42 0	99 9	106 0	123 0	164 0	205 0	246 0	287 0	
43	43 0	101 18	108 18	126 0	168 0	210 0	252 0	294 0	
44	44 0	104 0	111 0	129 0	172 0	215 0	258 0	301 0	
45	45 0	106 18	113 18	132 0	176 0	220 0	264 0	308 0	
46	46 0	109 9	116 0	135 0	180 0	225 0	270 0	315 0	
47	47 0	111 18	118 18	138 0	184 0	230 0	276 0	322 0	
48	48 0	114 0	121 0	141 0	188 0	235 0	282 0	329 0	
49	49 0	116 18	123 18	144 0	192 0	240 0	288 0	336 0	
50	50 0	119 9	126 0	147 0	196 0	245 0	294 0	343 0	
51	51 0	121 18	128 18	150 0	200 0	250 0	300 0	350 0	
52	52 0	124 0	131 0	153 0	204 0	255 0	306 0	357 0	
53	53 0	126 18	133 18	156 0	208 0	260 0	312 0	364 0	
54	54 0	129 9	136 0	159 0	212 0	265 0	318 0	371 0	
55	55 0	131 18	138 18	162 0	216 0	270 0	324 0	378 0	
56	56 0	134 0	141 0	165 0	220 0	275 0	330 0	385 0	
57	57 0	136 18	143 18	168 0	224 0	280 0	336 0	392 0	
58	58 0	139 9	146 0	171 0	228 0	285 0	342 0	399 0	
59	59 0	141 18	148 18	174 0	232 0	290 0	348 0	406 0	
60	60 0	144 0	151 0	177 0	236 0	295 0	354 0	413 0	

Length.	Breadth 12 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Pt.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 3	0 6	0 9	0 12	0 15	0 18	0 24	1 3
2	0 6	0 12	0 18	0 24	1 3	1 9	1 21	2 6
3	0 12	0 24	1 9	1 21	2 6	2 18	3 15	4 12
4	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18
5	0 24	1 21	2 18	3 15	4 12	5 9	7 3	8 24
6	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
7	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9
8	1 15	3 3	4 18	6 6	7 21	9 9	12 12	15 15
9	1 21	3 15	5 9	7 3	8 24	10 18	14 6	17 21
10	2 0	4 0	6 0	8 0	10 0	12 0	16 0	20 0
11	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6
12	2 12	4 24	7 9	9 21	12 6	14 18	19 15	24 12
13	2 18	5 9	8 0	10 18	13 9	16 0	21 9	26 18
14	2 24	5 21	8 18	11 15	14 12	17 9	23 3	28 24
15	3 3	6 6	9 9	12 12	15 15	18 18	24 24	31 3
16	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9
17	3 15	7 3	10 18	14 6	17 21	21 9	28 12	35 15
18	3 21	7 15	11 9	15 3	18 24	22 18	30 6	37 21
19	4 0	8 0	12 0	16 0	20 0	24 0	32 0	40 0
20	4 6	8 12	12 18	16 24	21 3	25 9	33 21	42 6
21	4 12	8 24	13 9	17 21	22 6	26 18	35 15	44 12
22	6 18	13 9	20 0	26 18	33 9	40 0	53 9	66 18
23	8 24	17 21	26 18	35 15	44 12	53 9	71 3	88 24
24	11 3	22 6	33 9	44 12	55 15	66 18	88 24	111 3
25	13 9	26 18	40 0	53 9	66 18	80 0	106 18	133 9

Pt.	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	1 9	1 15	1 21	2 0	2 18	3 9	4 0	4 18
2	2 18	3 3	3 15	4 0	5 9	6 18	8 0	9 9
3	5 9	6 6	7 3	8 0	10 18	13 9	16 0	18 18
4	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0
5	10 18	12 12	14 6	16 0	21 9	26 18	32 0	37 9
6	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
7	16 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0
8	18 18	21 21	24 24	28 0	37 9	46 18	56 0	65 9
9	21 9	24 24	28 12	32 0	42 18	53 9	64 0	74 18
10	24 0	28 0	32 0	36 0	48 0	60 0	72 0	84 0
11	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9
12	29 9	34 6	39 3	44 0	58 18	73 9	88 0	102 18
13	32 0	37 9	42 18	48 0	64 0	80 0	96 0	112 0
14	34 18	40 12	46 6	52 0	69 9	86 18	104 0	121 9
15	37 9	43 15	49 21	56 0	74 18	93 9	112 0	130 18
16	40 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0
17	42 18	49 21	56 24	64 0	85 9	106 18	128 0	149 9
18	45 9	52 24	60 12	68 0	90 18	113 9	136 0	158 18
19	48 0	56 0	64 0	72 0	96 0	120 0	144 0	168 0
20	50 18	59 3	67 15	76 0	101 9	126 18	152 0	177 9
21	53 9	62 6	71 3	80 0	106 18	133 9	160 0	186 18
22	80 0	93 9	106 18	120 0	160 0	200 0	240 0	280 0
23	106 18	124 12	142 6	160 0	213 9	266 18	320 0	373 9
24	133 9	155 15	177 21	200 0	266 18	333 9	400 0	466 18
25	160 0	186 18	213 9	240 0	320 0	400 0	480 0	560 0

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.	Breadth 15 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Pt.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	0 3 $\frac{1}{2}$	0 7 $\frac{1}{2}$	0 11 $\frac{1}{2}$	0 15	0 18 $\frac{1}{2}$	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$
1	0 7 $\frac{1}{2}$	0 15	0 22 $\frac{1}{2}$	1 3	1 10 $\frac{1}{2}$	1 18	2 6	2 21
2	0 15	1 3	1 18	2 6	2 21	3 9	4 12	5 15
3	0 22 $\frac{1}{2}$	1 18	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	6 18	8 9
4	1 3	2 6	3 9	4 12	5 15	6 18	8 24	11 3
5	1 10 $\frac{1}{2}$	2 21	4 4 $\frac{1}{2}$	5 15	6 25 $\frac{1}{2}$	8 9	11 3	13 24
6	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18
7	1 25 $\frac{1}{2}$	3 24	5 22 $\frac{1}{2}$	7 21	9 19 $\frac{1}{2}$	11 18	15 15	19 12
8	2 6	4 12	6 18	8 24	11 3	13 9	17 21	22 6
9	2 13 $\frac{1}{2}$	5 0	7 13 $\frac{1}{2}$	10 0	12 13 $\frac{1}{2}$	15 0	20 0	25 0
10	2 21	5 15	8 9	11 3	13 24	16 18	22 6	27 21
11	3 1 $\frac{1}{2}$	6 3	9 4 $\frac{1}{2}$	12 6	15 7 $\frac{1}{2}$	18 9	24 12	30 15
12	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9
13	3 16 $\frac{1}{2}$	7 6	10 22 $\frac{1}{2}$	14 12	18 1 $\frac{1}{2}$	21 18	28 24	36 3
14	3 24	7 21	11 18	15 15	19 12	23 9	31 3	38 24
15	4 4 $\frac{1}{2}$	8 9	12 13 $\frac{1}{2}$	16 18	20 22 $\frac{1}{2}$	25 0	33 9	41 18
16	4 12	8 24	13 9	17 21	22 6	26 18	35 15	44 12
17	4 19 $\frac{1}{2}$	9 12	14 4 $\frac{1}{2}$	18 24	23 16 $\frac{1}{2}$	28 9	37 21	47 6
18	5 0	10 0	15 0	20 0	25 0	30 0	40 0	50 0
19	5 7 $\frac{1}{2}$	10 15	15 22 $\frac{1}{2}$	21 3	26 10 $\frac{1}{2}$	31 18	42 6	52 21
20	5 15	11 3	16 18	22 6	27 21	33 9	44 12	55 15
30	8 9	16 18	25 0	33 9	41 18	50 0	66 18	83 9
40	11 3	22 6	33 9	44 12	55 15	66 18	88 24	111 3
50	13 24	27 21	41 18	55 15	69 12	83 9	111 3	138 24
60	16 18	33 9	50 0	66 18	83 9	100 0	133 9	166 18

	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
Pt.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
$\frac{1}{2}$	1 18	1 25 $\frac{1}{2}$	2 6	2 13 $\frac{1}{2}$	3 9	4 4 $\frac{1}{2}$	5 0	5 22 $\frac{1}{2}$
1	3 9	3 24	4 12	5 0	6 18	8 9	10 0	11 18
2	6 18	7 21	8 24	10 0	13 9	16 18	20 0	23 9
3	10 0	11 18	13 9	15 0	20 0	25 0	30 0	35 0
4	13 9	15 15	17 21	20 0	26 18	33 9	40 0	46 18
5	16 18	19 12	22 6	25 0	33 9	41 18	50 0	58 9
6	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0
7	23 9	27 6	31 3	35 0	46 18	58 9	70 0	81 18
8	26 18	31 3	35 15	40 0	53 9	66 18	80 0	93 9
9	30 0	35 0	40 0	45 0	60 0	75 0	90 0	105 0
10	33 9	38 24	44 12	50 0	66 18	83 9	100 0	116 18
11	36 18	42 21	48 24	55 0	73 9	91 18	110 0	128 9
12	40 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0
13	43 9	50 15	57 21	65 0	86 18	108 9	130 0	151 18
14	46 18	54 12	62 6	70 0	93 9	116 18	140 0	163 9
15	50 0	58 9	66 18	75 0	100 0	125 0	150 0	175 0
16	53 9	62 6	71 3	80 0	106 18	133 9	160 0	186 18
17	56 18	66 3	75 15	85 0	113 9	141 18	170 0	198 9
18	60 0	70 0	80 0	90 0	120 0	150 0	180 0	210 0
19	63 9	73 24	84 12	95 0	126 18	158 9	190 0	231 18
20	66 18	77 21	88 24	100 0	133 9	166 18	200 0	233 9
30	100 0	116 18	133 9	150 0	200 0	250 0	300 0	350 0
40	133 9	155 15	177 21	200 0	266 18	333 9	400 0	466 18
50	166 18	194 12	222 6	250 0	333 9	416 18	500 0	583 9
60	200 0	233 9	266 18	300 0	400 0	500 0	600 0	700 0

Length.		Breadth 18 feet.							
		Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	
1	0 4 $\frac{1}{2}$	0 9	0 13 $\frac{1}{2}$	0 18	0 22 $\frac{1}{2}$	1 0	1 9	1 18	
2	0 9	0 18	1 0	1 9	1 18	2 0	2 18	3 9	
3	0 18	1 9	2 0	2 18	3 9	4 0	5 9	6 18	
4	1 0	2 0	3 0	4 0	5 0	6 0	8 0	10 0	
5	1 9	2 18	4 0	5 9	6 18	8 0	10 18	13 9	
6	1 18	3 9	5 0	6 18	8 9	10 0	13 9	16 18	
7	2 0	4 0	6 0	8 0	10 0	12 0	16 0	20 0	
8	2 9	4 18	7 0	9 9	11 18	14 0	18 18	23 9	
9	2 18	5 9	8 0	10 18	13 9	16 0	21 9	26 18	
10	3 0	6 0	9 0	12 0	15 0	18 0	24 0	30 0	
11	3 9	6 18	10 0	13 9	16 18	20 0	26 18	33 9	
12	3 18	7 9	11 0	14 18	18 9	22 0	29 9	36 18	
13	4 0	8 0	12 0	16 0	20 0	24 0	32 0	40 0	
14	4 9	8 18	13 0	17 9	21 18	26 0	34 18	43 9	
15	4 18	9 9	14 0	18 18	23 9	28 0	37 9	46 18	
16	5 0	10 0	15 0	20 0	25 0	30 0	40 0	50 0	
17	5 9	10 18	16 0	21 9	26 18	32 0	42 18	53 9	
18	5 18	11 9	17 0	22 18	28 9	34 0	45 9	56 18	
19	6 0	12 0	18 0	24 0	30 0	36 0	48 0	60 0	
20	6 9	12 18	19 0	25 9	31 18	38 0	50 18	63 9	
30	6 18	13 9	20 0	26 18	33 9	40 0	53 9	66 18	
40	10 0	20 0	30 0	40 0	50 0	60 0	80 0	100 0	
50	13 9	26 18	40 0	53 9	66 18	80 0	106 18	133 9	
60	16 18	33 9	50 0	66 18	83 9	100 0	133 9	166 18	
60	20 0	40 0	60 0	80 0	100 0	120 0	160 0	200 0	

Length.		Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
		yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	2 0	2 9	2 18	3 0	4 0	5 0	6 0	7 0	
2	4 0	4 18	5 9	6 0	8 0	10 0	12 0	14 0	
3	8 0	9 9	10 18	12 0	16 0	20 0	24 0	28 0	
4	12 0	14 0	16 0	18 0	24 0	30 0	36 0	42 0	
5	16 0	18 18	21 9	24 0	32 0	40 0	48 0	56 0	
6	20 0	23 9	26 18	30 0	40 0	50 0	60 0	70 0	
7	24 0	28 0	32 0	36 0	48 0	60 0	72 0	84 0	
8	28 0	32 18	37 9	42 0	56 0	70 0	84 0	98 0	
9	32 0	37 9	42 18	48 0	64 0	80 0	96 0	112 0	
10	36 0	42 0	48 0	54 0	72 0	90 0	108 0	126 0	
11	40 0	46 18	53 9	60 0	80 0	100 0	120 0	140 0	
12	44 0	51 9	58 18	66 0	88 0	110 0	132 0	154 0	
13	48 0	56 0	64 0	72 0	96 0	120 0	144 0	168 0	
14	52 0	60 18	69 9	78 0	104 0	130 0	156 0	182 0	
15	56 0	65 9	74 18	84 0	112 0	140 0	168 0	196 0	
16	60 0	70 0	80 0	90 0	120 0	150 0	180 0	210 0	
17	64 0	74 18	85 9	96 0	128 0	160 0	192 0	224 0	
18	68 0	79 9	90 18	102 0	136 0	170 0	204 0	238 0	
19	72 0	84 0	96 0	108 0	144 0	180 0	216 0	252 0	
20	76 0	88 18	101 9	114 0	152 0	190 0	228 0	266 0	
30	80 0	93 9	106 18	120 0	160 0	200 0	240 0	280 0	
40	120 0	140 0	160 0	180 0	240 9	300 0	360 0	420 0	
50	160 0	186 18	213 9	240 0	320 0	400 0	480 0	560 0	
60	200 0	233 9	266 18	300 0	400 0	500 0	600 0	700 0	
60	240 0	280 0	320 0	360 0	480 0	600 0	720 0	840 0	

TABLE II.—CUBIC CONTENT OF OBLONG STACKS.

Length.	Breadth 21 feet.							
	Height 6 inches.	Height 1 foot.	Height 1 ft. 6 in.	Height 2 feet.	Height 2 ft. 6 in.	Height 3 feet.	Height 4 feet.	Height 5 feet.
Ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
1	0 5½	0 10½	0 15½	0 21	0 26½	1 4½	1 15	1 25½
2	0 10½	0 21	1 4½	1 15	1 25½	2 9	3 3	3 24
3	0 21	1 15	2 9	3 3	3 24	4 18	6 6	7 21
4	1 4½	2 9	3 13½	4 18	5 22½	7 0	9 9	11 18
5	1 15	3 3	4 18	6 6	7 21	9 9	12 12	15 15
6	1 25½	3 24	5 22½	7 21	9 19½	11 18	15 15	19 12
7	2 9	4 18	7 0	9 9	11 18	14 0	18 18	23 9
8	2 19½	5 12	8 4½	10 24	23 16½	16 9	21 21	27 6
9	3 3	6 6	9 9	12 12	15 15	18 18	24 24	31 3
10	3 13½	7 0	10 13½	14 0	17 13½	21 0	28 0	35 0
11	3 24	7 21	11 18	15 15	19 12	23 9	31 3	38 24
12	4 7½	8 15	12 22½	17 3	21 10½	25 18	34 6	42 21
13	4 18	9 9	14 0	18 18	23 9	28 0	37 9	46 18
14	5 1½	10 3	15 4½	20 6	25 7½	30 9	40 12	50 15
15	5 12	10 24	16 9	21 21	27 6	32 18	43 15	54 12
16	5 22½	11 18	17 13½	23 9	29 4½	35 0	46 18	58 9
17	6 6	12 12	18 18	24 24	31 3	37 9	49 21	62 6
18	6 16½	13 6	19 22½	26 12	33 1½	39 18	52 24	66 3
19	7 0	14 0	21 0	28 0	35 0	42 0	56 0	70 0
20	7 10½	14 21	22 4½	29 15	36 25½	44 9	59 3	73 24
20	7 21	15 15	23 9	31 3	38 24	46 18	62 6	77 21
40	11 18	23 9	35 0	46 18	58 9	70 0	93 9	116 18
80	15 15	31 3	46 18	62 6	77 21	93 9	124 12	155 15
60	19 12	38 24	58 9	77 21	97 6	116 18	155 15	194 12
60	23 9	46 18	70 0	93 9	116 18	140 0	186 18	233 9

Ft.	Height 6 feet.	Height 7 feet.	Height 8 feet.	Height 9 feet.	Height 12 feet.	Height 15 feet.	Height 18 feet.	Height 21 feet.
	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.	yds. ft.
½	2 9	2 19½	3 3	3 13½	4 18	5 22½	7 0	8 4½
1	4 18	5 12	6 6	7 0	9 9	11 18	14 0	16 9
2	9 9	10 24	12 12	14 0	18 18	23 9	28 0	32 18
3	14 0	16 9	18 18	21 0	28 0	35 0	42 0	49 0
4	18 18	21 21	24 24	28 0	37 9	46 18	56 0	65 9
5	23 9	27 6	31 3	35 0	46 18	58 9	70 0	81 18
6	28 0	32 18	37 9	42 0	56 0	70 0	84 0	96 0
7	32 18	38 3	43 15	49 0	65 9	81 18	98 0	114 9
8	37 9	43 15	49 21	56 0	74 18	93 9	112 0	130 18
9	42 0	49 0	56 0	63 0	84 0	105 0	126 0	147 0
10	46 18	54 12	62 6	70 0	93 9	116 18	140 0	163 9
11	51 9	59 24	68 12	77 0	102 18	128 9	154 0	179 18
12	56 0	65 9	74 18	84 0	112 0	140 0	168 0	196 0
13	60 18	70 21	80 24	91 0	121 9	151 18	182 0	212 9
14	65 9	76 6	87 3	98 0	130 18	163 9	196 0	228 18
15	70 0	81 18	93 9	105 0	140 0	175 0	210 0	245 0
16	74 18	87 3	99 15	112 0	149 9	186 18	224 0	261 9
17	79 9	92 15	105 21	119 0	158 18	198 9	238 0	277 18
18	84 0	98 0	112 0	126 0	168 0	210 0	252 0	294 0
19	88 18	103 12	118 6	133 0	177 9	221 18	266 0	310 9
20	93 9	108 24	124 12	140 0	186 18	233 9	280 0	326 18
30	140 0	163 9	186 18	210 0	280 0	350 0	420 0	490 0
40	186 18	217 21	248 24	280 0	373 9	466 18	560 0	653 9
50	233 9	272 6	311 3	350 0	466 18	583 9	700 0	816 18
60	280 0	326 18	373 9	420 0	560 0	700 0	840 0	980 0

TABLE III.

SHOWS THE NUMBER OF STONES OF HAY, ETC., IN STACKS CONTAINING FROM 1 TO 500 CUBIC YARDS, AT RATES FROM 4 TO 20 STONES PER CUBIC YARD.

THE content of stacks in cubic yards is placed in the left-hand column of the Table; and, in the first two pages, under their respective headings, opposite each content, is found the number of stones at any required rate, from 4 to 12 stones per cubic yard; the second two pages contain the number of stones in each content, from 13 to 20 stones per cubic yard.

HAVING ascertained by Tables I. or II. the content of a stack in cubic yards, and estimated, from its size, age, &c., the number of stones, whether Imperial or Scotch Trone, that a cubic yard may be supposed to weigh, the number of stones in the stack is at once found in the column under the estimated weight, opposite the given content.

Thus, if the content of a stack is found to be 76 cubic yards, and is supposed to weigh at the rate of 16 stones per cubic yard; on turning to the Table, we find that in the column under 16 stones, opposite 76 yards, stands 1216 stones, the weight of the stack.

NOTE. The extent and usefulness of the Table may be increased by remembering that a cypher added to the right of any number raises its value tenfold. If, then, we add a cypher to both the yards and the stones, in the above example, a stack containing 760 cubic yards would be shown to weigh 12,160 stones.

To reduce Imperial stones to hundredweights, divide the number by 8; thus, $1216 \div 8 = 152$ cwt.; and $12,160 \div 8 = 1520$ cwt.; which may be divided by 20, to reduce them to tons, if required.

TABLE III.—WEIGHT OF HAY, ETC., IN CUBIC YARDS.

Solid Yards.	4 Stones.	5 Stones.	6 Stones.	7 Stones.	8 Stones.	9 Stones.	10 Stones.	11 Stones.	12 Stones.
1	4	5	6	7	8	9	10	11	12
2	8	10	12	14	16	18	20	22	24
3	12	15	18	21	24	27	30	33	36
4	16	20	24	28	32	36	40	44	48
5	20	25	30	35	40	45	50	55	60
6	24	30	36	42	48	54	60	66	72
7	28	35	42	49	56	63	70	77	84
8	32	40	48	56	64	72	80	88	96
9	36	45	54	63	72	81	90	99	108
10	40	50	60	70	80	90	100	110	120
11	44	55	66	77	88	99	110	121	132
12	48	60	72	84	96	108	120	132	144
13	52	65	78	91	104	117	130	143	156
14	56	70	84	98	112	126	140	154	168
15	60	75	90	105	120	135	150	165	180
16	64	80	96	112	128	144	160	176	192
17	68	85	102	119	136	153	170	187	204
18	72	90	108	126	144	162	180	198	216
19	76	95	114	133	152	171	190	209	228
20	80	100	120	140	160	180	200	220	240
21	84	105	126	147	168	189	210	231	252
22	88	110	132	154	176	198	220	242	264
23	92	115	138	161	184	207	230	253	276
24	96	120	144	168	192	216	240	264	288
25	100	125	150	175	200	225	250	275	300
26	104	130	156	182	208	234	260	286	312
27	108	135	162	189	216	243	270	297	324
28	112	140	168	196	224	252	280	308	336
29	116	145	174	203	232	261	290	319	348
30	120	150	180	210	240	270	300	330	360
31	124	155	186	217	248	279	310	341	372
32	128	160	192	224	256	288	320	352	384
33	132	165	198	231	264	297	330	363	396
34	136	170	204	238	272	306	340	374	408
35	140	175	210	245	280	315	350	385	420
36	144	180	216	252	288	324	360	396	432
37	148	185	222	259	296	333	370	407	444
38	152	190	228	266	304	342	380	418	456
39	156	195	234	273	312	351	390	429	468
40	160	200	240	280	320	360	400	440	480
41	164	205	246	287	328	369	410	451	492
42	168	210	252	294	336	378	420	462	504
43	172	215	258	301	344	387	430	473	516
44	176	220	264	308	352	396	440	484	528
45	180	225	270	315	360	405	450	495	540
46	184	230	276	322	368	414	460	506	552

TABLE III.—WEIGHT OF HAY, ETC., IN CUBIC YARDS.

Solid Yards.	4 Stones.	5 Stones.	6 Stones.	7 Stones.	8 Stones.	9 Stones.	10 Stones.	11 Stones.	12 Stones.
47	188	235	282	329	376	423	470	517	564
48	192	240	288	336	384	432	480	528	576
49	196	245	294	343	392	441	490	539	588
50	200	250	300	350	400	450	500	550	600
51	204	255	306	357	408	459	510	561	612
52	208	260	312	364	416	468	520	572	624
53	212	265	318	371	424	477	530	583	636
54	216	270	324	378	432	486	540	594	648
55	220	275	330	385	440	495	550	605	660
56	224	280	336	392	448	504	560	616	672
57	228	285	342	399	456	513	570	627	684
58	232	290	348	406	464	522	580	638	696
59	236	295	354	413	472	531	590	649	708
60	240	300	360	420	480	540	600	660	720
61	244	305	366	427	488	549	610	671	732
62	248	310	372	434	496	558	620	682	744
63	252	315	378	441	504	567	630	693	756
64	256	320	384	448	512	576	640	704	768
65	260	325	390	455	520	585	650	715	780
66	264	330	396	462	528	594	660	726	792
67	268	335	402	469	536	603	670	737	804
68	272	340	408	476	544	612	680	748	816
69	276	345	414	483	552	621	690	759	828
70	280	350	420	490	560	630	700	770	840
71	284	355	426	497	568	639	710	781	852
72	288	360	432	504	576	648	720	792	864
73	292	365	438	511	584	657	730	803	876
74	296	370	444	518	592	666	740	814	888
75	300	375	450	525	600	675	750	825	900
76	304	380	456	532	608	684	760	836	912
77	308	385	462	539	616	693	770	847	924
78	312	390	468	546	624	702	780	858	936
79	316	395	474	553	632	711	790	869	948
80	320	400	480	560	640	720	800	880	960
85	340	425	510	595	680	765	850	935	1020
90	360	450	540	630	720	810	900	990	1080
95	380	475	570	665	760	855	950	1045	1140
100	400	500	600	700	800	900	1000	1100	1200
150	600	750	900	1050	1200	1350	1500	1650	1800
200	800	1000	1200	1400	1600	1800	2000	2200	2400
250	1000	1250	1500	1750	2000	2250	2500	2750	3000
300	1200	1500	1800	2100	2400	2700	3000	3300	3600
350	1400	1750	2100	2450	2800	3150	3500	3850	4200
400	1600	2000	2400	2800	3200	3600	4000	4400	4800
450	1800	2250	2700	3350	3800	4050	4500	4950	5400
500	2000	2500	3000	3500	4000	4500	5000	5500	6000

TABLE III.—WEIGHT OF HAY, ETC., IN CUBIC YARDS.

Solid Yards.	13 Stones.	14 Stones.	15 Stones.	16 Stones.	17 Stones.	18 Stones.	19 Stones.	20 Stones.
1	13	14	15	16	17	18	19	20
2	26	28	30	32	34	36	38	40
3	39	42	45	48	51	54	57	60
4	52	56	60	64	68	72	76	80
5	65	70	75	80	85	90	95	100
6	78	84	90	96	102	108	114	120
7	91	98	105	112	119	126	133	140
8	104	112	120	128	136	144	152	160
9	117	126	135	144	153	162	171	180
10	130	140	150	160	170	180	190	200
11	143	154	165	176	187	198	209	220
12	156	168	180	192	204	216	228	240
13	169	182	195	208	221	234	247	260
14	182	196	210	224	238	252	266	280
15	195	210	225	240	255	270	285	300
16	208	224	240	256	272	288	304	320
17	221	238	255	272	289	306	323	340
18	234	252	270	288	306	324	342	360
19	247	266	285	304	323	342	361	380
20	260	280	300	320	340	360	380	400
21	273	294	315	336	357	378	399	420
22	286	308	330	352	374	396	418	440
23	299	322	345	368	391	414	437	460
24	312	336	360	384	408	432	456	480
25	325	350	375	400	425	450	475	500
26	338	364	390	416	442	468	494	520
27	351	378	405	432	459	486	513	540
28	364	392	420	448	476	504	532	560
29	377	406	435	464	493	522	551	580
30	390	420	450	480	510	540	570	600
31	403	434	465	496	527	558	589	620
32	416	448	480	512	544	576	608	640
33	429	462	495	528	561	594	627	660
34	442	476	510	544	578	612	646	680
35	455	490	525	560	595	630	665	700
36	468	504	540	576	612	648	684	720
37	481	518	555	592	629	666	703	740
38	494	532	570	608	646	684	722	760
39	507	546	585	624	663	702	741	780
40	520	560	600	640	680	720	760	800
41	533	574	615	656	697	738	779	820
42	546	588	630	672	714	756	798	840
43	559	602	645	688	731	774	817	860
44	572	616	660	704	748	792	836	880
45	585	630	675	720	765	810	855	900
46	598	644	690	736	782	828	874	920

TABLE III.—WEIGHT OF HAY, ETC., IN CUBIC YARDS.

Solid Yards.	13 Stones.	14 Stones.	15 Stones.	16 Stones.	17 Stones.	18 Stones.	19 Stones.	20 Stones.
47	611	658	705	752	799	846	893	940
48	624	672	720	768	816	864	912	960
49	637	686	735	784	833	882	931	980
50	650	700	750	800	850	900	950	1000
51	663	714	765	816	867	918	969	1020
52	676	728	780	832	884	936	988	1040
53	689	742	795	848	901	954	1007	1060
54	702	756	810	864	918	972	1026	1080
55	715	770	825	880	935	990	1045	1100
56	728	784	840	896	952	1008	1064	1120
57	741	798	855	912	969	1026	1083	1140
58	754	812	870	928	986	1044	1102	1160
59	767	826	885	944	1003	1062	1121	1180
60	780	840	900	960	1020	1080	1140	1200
61	793	854	915	976	1037	1098	1159	1220
62	816	868	930	992	1054	1116	1178	1240
63	829	882	945	1008	1071	1134	1197	1260
64	842	896	960	1024	1088	1152	1216	1280
65	855	910	975	1040	1105	1170	1235	1300
66	868	924	990	1056	1122	1188	1254	1320
67	881	938	1005	1072	1139	1206	1273	1340
68	894	952	1020	1088	1156	1224	1292	1360
69	907	966	1035	1104	1173	1242	1311	1380
70	910	980	1050	1120	1190	1260	1330	1400
71	923	994	1065	1136	1207	1278	1349	1420
72	936	1008	1080	1152	1224	1296	1368	1440
73	949	1022	1095	1168	1241	1314	1387	1460
74	962	1036	1110	1184	1258	1332	1406	1480
75	975	1050	1125	1200	1275	1350	1425	1500
76	988	1064	1140	1216	1292	1368	1444	1520
77	1001	1078	1155	1232	1309	1386	1463	1540
78	1014	1092	1170	1248	1326	1404	1482	1560
79	1027	1106	1185	1264	1343	1422	1501	1580
80	1040	1120	1200	1280	1360	1440	1520	1600
85	1105	1190	1275	1360	1445	1530	1615	1700
90	1170	1260	1350	1440	1530	1620	1710	1800
95	1235	1330	1425	1520	1615	1710	1805	1900
100	1300	1400	1500	1600	1700	1800	1900	2000
150	1950	2170	2250	2400	2550	2700	2850	3000
200	2600	2800	3000	3200	3400	3600	3800	4000
250	3250	3500	3750	4000	4250	4500	4750	5000
300	3900	4200	4500	4800	5100	5400	5700	6000
350	4550	4900	5250	5600	5950	6300	6650	7000
400	5200	5600	6000	6400	6800	7200	7600	8000
450	5850	6300	6750	7200	7650	8100	8550	9000
500	6500	7000	7500	8000	8500	9000	9500	10000

TABLE IV.

SHOWS THE CONTENT OF TANKS, ETC., OF A CYLINDRICAL FORM, IN CUBIC YARDS AND FEET, FROM 4 TO 15½ FEET IN DIAMETER, AND FROM 4 TO 14 FEET IN DEPTH.

THE depths are found in the left-hand column of the pages, and the diameters along the tops of the other columns, in their order; and the content, at any given diameter and depth, is found opposite the given depth under the given diameter.

In calculating the Table, fractions of a half-foot and under are neglected, when above a half-foot, they are reckoned 1.

EXAMPLE. What is the cubic content of a cylindrical tank, the diameter of which is 12½ feet, and the depth 8 feet?

Look in the Table for the diameter 12½ feet, and under which, opposite the depth 8 feet, is found 36 yards 10 feet, the cubic content.

To calculate the content of a cylindrical tank, having the diameter and depth given,

RULE 1. Square the diameter, multiply the product by the depth, and by .7854, and, if the dimensions are given in feet, the result is the content in cubic feet; if the dimensions are given in inches, in place of .7854, multiply by .00045452, which will also give the content in cubic feet, which divide by 27, to reduce to cubic yards if required.

2. Or, square the diameter, multiply the product by the depth, and by .02909, the product is the content in cubic yards, if the dimensions are given in feet; if the dimensions are given in inches, in place of .02909, multiply by .000016834, and the product is also the content in cubic yards.

Take, for exercise, the above example, by the rules in their order.

By Rule 1, the dimensions in feet,

$$12.5^2 = 156.25 \times 8 = 1250 \times .7854 = 981.75 \text{ cubic feet.}$$

Dimensions in inches, diameter 150 inches, depth 96 inches,

$$150^2 = 22500 \times 96 = 2160000 \times .00045452 = 981.7632 \text{ cubic feet,}$$

and 981.7632, divided by 27, gives 36 yards 9.7632 feet, or nearly 9½ feet.

By Rule 2, the dimensions in feet,

$$12.5^2 = 156.25 \times 8 = 1250 \times .02909 = 36.3625 \text{ yards.}$$

Dimensions in inches,

$$150^2 = 22500 \times 96 = 2160000 \times .000016834 = 36.36144 \text{ yards,}$$

and the fraction, .36144, multiplied by 27, gives 9.7588, or nearly $9\frac{3}{4}$ feet as above.

These results differ a little from the content shown in the Table, as fractions above a half-foot are set down as 1.

NOTE. If the diameter of a circular tank be multiplied by 3.1416, the product is equal to its circumference; and, if the circumference be multiplied by .31831, the product is equal to its diameter.

TABLE IV.—CUBIC CONTENT OF CYLINDRICAL TANKS.

DEPTH.	DIAMETER.											
	4 Feet.		4½ Feet.		5 Feet.		5½ Feet.		6 Feet.		6½ Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
4	1	23	2	10	2	25	3	14	4	5	4	25
4½	2	3	2	18	3	7	3	26	4	19	5	14
5	2	9	2	26	3	17	4	11	5	6	6	4
5½	2	15	3	6	4	0	4	23	5	21	6	21
6	2	21	3	14	4	10	5	8	6	8	7	10
6½	3	1	3	22	4	20	5	19	6	22	8	0
7	3	7	4	3	5	2	6	4	7	9	8	16
7½	3	13	4	11	5	12	6	16	7	23	9	6
8	3	20	4	19	5	22	7	1	8	10	9	23
8½	3	26	5	0	6	5	7	13	8	24	10	13
9	4	5	5	8	6	15	7	25	9	11	11	2
9½	4	11	5	16	6	25	8	10	9	26	11	18
10	4	18	5	24	7	7	8	22	10	13	12	8
10½	4	24	6	5	7	17	9	6	11	0	12	24
11	5	3	6	13	8	0	9	18	11	14	13	14
11½	5	10	6	21	8	10	10	3	12	1	14	4
12	5	16	7	2	8	20	10	15	12	15	14	20
12½	5	22	7	10	9	2	11	0	13	2	15	10
13	6	1	7	18	9	12	11	12	13	17	15	26
13½	6	8	7	26	9	22	11	24	14	4	16	16
14	6	14	8	7	10	5	12	9	14	18	17	6
	7 Feet.		7½ Feet.		8 Feet.		8½ Feet.		9 Feet.		9½ Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
4	5	19	6	15	7	12	8	11	9	11	10	14
4½	6	11	7	10	8	10	9	12	10	16	11	23
5	7	3	8	5	9	8	10	14	11	21	13	3
5½	7	23	9	0	10	6	11	15	12	26	14	12
6	8	15	9	22	11	5	12	16	14	4	15	20
6½	9	7	10	17	12	3	13	18	15	9	17	2
7	9	26	11	12	13	1	14	19	16	13	18	10
7½	10	19	12	7	13	26	15	21	17	18	19	19
8	11	11	13	2	14	24	16	22	18	23	21	0
8½	12	3	13	25	15	22	17	23	20	1	22	8
9	12	22	14	20	16	20	18	25	21	6	23	17
9½	13	15	15	15	17	19	19	26	22	10	24	25
10	14	7	16	10	18	17	21	0	23	15	26	7
10½	14	26	17	5	19	15	22	2	24	20	27	15
11	15	18	18	0	20	13	23	3	25	25	28	24
11½	16	11	18	22	21	11	24	5	27	3	30	5
12	17	3	19	17	22	9	25	6	28	7	31	14
12½	17	22	20	12	23	7	26	7	29	12	32	22
13	18	14	21	7	24	5	27	9	30	17	34	3
13½	19	7	22	2	25	4	28	10	31	22	35	13
14	19	26	22	25	26	2	29	11	33	0	36	20

TABLE IV.—CUBIC CONTENT OF CYLINDRICAL TANKS.

DEPTH.	DIAMETER.											
	10 Feet.		10½ Feet.		11 Feet.		11½ Feet.		12 Feet.		12½ Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
4	11	17	12	22	14	2	15	10	16	20	18	5
4½	13	2	14	12	15	23	17	8	18	23	20	12
5	14	15	16	1	17	16	19	6	20	25	22	20
5½	16	0	17	17	19	10	21	4	23	1	25	0
6	17	12	19	7	21	3	23	2	25	4	27	7
6½	18	25	20	23	22	24	25	0	27	6	29	15
7	20	10	22	12	24	17	26	25	29	9	31	22
7½	21	22	24	1	26	11	28	23	31	11	34	2
8	23	7	25	18	28	4	30	21	33	14	36	10
8½	24	20	27	7	29	25	32	19	35	16	38	17
9	26	5	28	23	31	18	34	17	37	19	40	24
9½	27	17	30	13	33	12	36	15	39	21	43	5
10	29	2	32	2	35	5	38	13	41	24	45	12
10½	30	15	33	18	36	26	40	11	44	0	47	20
11	32	0	35	7	38	19	42	9	46	2	50	0
11½	33	12	36	24	40	13	44	6	48	5	52	7
12	34	24	38	13	42	6	46	4	50	7	54	15
12½	36	10	40	2	44	0	48	2	52	10	56	22
13	37	22	41	19	45	20	50	0	54	12	59	2
13½	39	7	43	8	47	14	51	25	56	15	61	10
14	40	20	44	24	49	7	53	23	58	17	63	17
	13 Feet.		13½ Feet.		14 Feet.		14½ Feet.		15 Feet.		15½ Feet.	
Feet.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.	Yds.	Ft.
4	19	18	21	6	22	22	24	13	26	5	27	26
4½	22	3	23	23	25	18	27	14	29	12	31	12
5	24	16	26	14	28	14	30	16	32	20	34	25
5½	27	1	29	4	31	10	33	17	36	0	38	12
6	29	13	31	22	34	6	36	19	39	7	41	25
6½	31	26	34	12	37	2	39	20	42	15	45	11
7	34	11	37	3	39	25	42	22	45	22	48	25
7½	36	23	39	21	42	21	45	23	49	2	52	11
8	39	9	42	11	45	17	48	25	52	10	55	25
8½	41	21	45	2	48	12	52	0	55	17	59	11
9	44	7	47	19	51	8	55	1	58	24	62	24
9½	46	19	50	10	54	4	58	3	62	5	66	11
10	49	4	53	0	57	0	61	4	65	12	69	24
10½	51	17	55	18	59	23	64	6	68	20	73	10
11	54	2	58	9	62	19	67	7	72	0	76	24
11½	56	14	60	26	65	15	70	9	75	7	80	10
12	59	0	63	17	68	11	73	11	78	15	83	23
12½	61	12	66	7	71	7	76	12	81	22	87	10
13	63	25	68	25	74	3	79	14	85	2	90	23
13½	66	10	71	15	76	26	82	15	88	10	94	9
14	68	22	74	6	79	22	85	17	91	17	97	23

TABLE V.

SHOWS THE NUMBER OF IMPERIAL GALLONS THAT TANKS OF A CIRCULAR, SQUARE, OR OBLONG FORM WILL CONTAIN; HAVING THEIR CONTENT OR CAPACITY GIVEN IN CUBIC YARDS AND FEET, FROM 1 FOOT TO 500 YARDS.

The content or capacity of circular tanks, having the *circumference* and *depth* given, is readily found in cubic yards and feet by Table I.; and the content of square or oblong tanks, the *length*, *breadth*, and *depth* being given, by Table II.; the *height* in these Tables being reckoned the *depth* of the tank.

Table IV. shows the content of circular tanks, having the *diameter* and *depth* given, in cubic yards and feet.

The cubic content having been found by these Tables, or otherwise, the capacity in Imperial gallons will be shown by the present Table.

In calculating the Table, fractions of half a gallon, and under, are neglected; when above half a gallon, they are reckoned 1.

EXAMPLE. How many gallons will a circular tank contain, the diameter of which is $12\frac{1}{2}$ feet, and the depth 8 feet?

In Table IV., under the diameter $12\frac{1}{2}$ feet, and opposite the depth 8 feet, stands the cubic content 36 yards 10 feet; and, by the present Table,	Gallons.
the content in gallons, opposite 36 yards, is	6058
And opposite 10 feet, is	62
Capacity of the tank,	6120

Suppose it were wished to construct a tank to contain a certain number of gallons, say about 6000, at a depth of 8 feet, what would the circumference require to be?

By this Table we find that 36 cubic yards will contain 6058 gallons, and, on turning to Table I., the nearest content to 36 yards, under 8 feet, is found to be 35 yards 23 feet, opposite a circumference of 39 feet; and, in this Table, opposite	Gallons.
35 yards, stands	5889
And opposite 23 feet stands	143
Capacity of the tank,	6032

If it be desired to make an oblong tank to contain about the same quantity, the depth to be 8 feet, and the breadth 9 feet, what must be its length?

In Table II., at a breadth of 9 feet, under a depth (height) of 8 feet, we find opposite a length of 13 feet, stands	Yds.	Ft.
	34	18
And opposite $\frac{1}{2}$ foot stands	1	9

Or, a tank $13\frac{1}{2}$ feet long, 9 broad, and 8 deep, will measure 36 0 and will contain 6058 gallons.

An Imperial gallon contains 277.274 cubic inches, and if 46,656, the cubic inches in a yard, is divided by that number, the quotient is 168.26677, or a little more than $168\frac{1}{4}$ gallons per cubic yard; and this number, divided by 27, the cubic feet in a yard, gives a quotient of 6.2321, or a little less than $6\frac{1}{4}$ gallons per cubic foot.

Thus, if the cubic content of any tank is known, yards multiplied by 168.26677, and feet multiplied by 6.2321, will give its capacity in Imperial gallons. Where great exactness is not required, the yards may be multiplied by $168\frac{1}{4}$, and the feet by $6\frac{1}{4}$ in place of the above.

Suppose the solid content of a tank to be 36 yards 10 feet ;

		Gallons.
Then, 36×168.26677 =	6057.60372
And, 10×6.2321 =	62.321

Capacity of the tank, 6119.92472
or very nearly 6120 gallons, as shown by the Table.

Rules for calculating the capacity of tanks in Imperial gallons.

1. For circular tanks.—Given, the *diameter* and *depth*.

Square the diameter, multiply the product by the depth, and by 4.8947, if the dimensions are given in feet; or, by .0028326, if the dimensions are given in inches.

2. For circular tanks.—Given, the *circumference* and *depth*.

Square the circumference, multiply the product by the depth, and by .49594, if the dimensions are given in feet; or, by .000287, if the dimensions are given in inches.

3. For square or oblong tanks.—Given, the *length*, *width*, and *depth*.

Multiply the length, width, and depth into one another, and the product by 6.2321, if the dimensions are given in feet; or, by .00360654, if the dimensions are given in inches.

We shall perform the foregoing examples, by the Rules, in their order.

1. A circular tank, diameter $12\frac{1}{2}$ feet, and depth 8 feet.

By feet, $12.5^2 = 156.25 \times 8 = 1250 \times 4.8947 = 6118.375$ gallons.

„ inches, $150^2 = 22500 \times 96 = 2160000 \times .0028326 = 6118.416$ do.

2. A circular tank, circumference 39 feet, and depth 8 feet.

By feet, $39^2 = 1521 \times 8 = 12168 \times .49594 = 6034.59792$ gallons.

„ in. $468^2 = 219024 \times 96 = 21026304 \times .000287 = 6034.549248$ do.

3. An oblong tank, length $13\frac{1}{2}$ feet, width 9 feet, and depth 8 feet.

By feet, $13.5 \times 9 = 121.5 \times 8 = 972 \times 6.2321 = 6057.6012$ gallons.

„ inches, $162 \times 108 = 17496 \times 96 = 1679616 \times .00360654 = 6057.60228864$ gallons.

It will be observed that the contents in these examples vary a little from the contents found by the Tables, which is caused by taking the fractions in the calculations of the Table, if above a half-foot, as 1; or, neglecting them, when a half-foot, or under.

Mr. George Melling, at the Annual Show Meeting of the Royal North Lancashire Agricultural Society, held at Burnley in September 1850, stated that he had made a calculation which, he believed, would be found near enough for practical purposes, that during the frosty months of November, December, January, and February, when he considered it useless to apply liquid manure, one cow, during that time, would make 300 gallons. The size of tanks necessary for a farm would, therefore, be regulated by the number of stock kept, at the rate of 300 gallons for each. This would be about 2 cubic yards for one cow, 9 yards for 5 cows, 18 yards for 10 cows, 27 yards for 15 cows, and 36 yards for 20 cows, &c. Tanks of the proper dimensions, either circular, square, or oblong, of the above-mentioned contents, may readily be found by Tables I., II., and IV.

TABLE V.—CAPACITY OF TANKS IN IMPERIAL GALLONS.

Feet.	Content in Solid Feet.	Capacity in Imperial Gallons.	Content in Solid Yards.	Capacity in Imperial Gallons.	Content in Solid Yards.	Capacity in Imperial Gallons.	Content in Solid Yards.	Capacity in Imperial Gallons.	
	L. Gals.	Yards.	L. Gals.	Yards.	L. Gals.	Yards.	L. Gals.	Yards.	
1	6	1	168	27	4543	53	8918	79	13293
2	12	2	337	28	4711	54	9086	80	13461
3	19	3	505	29	4880	55	9255	81	13630
4	25	4	673	30	5048	56	9423	82	13798
5	31	5	841	31	5216	57	9591	83	13966
6	37	6	1010	32	5385	58	9759	84	14134
7	44	7	1178	33	5553	59	9928	85	14303
8	50	8	1346	34	5721	60	10096	86	14471
9	56	9	1514	35	5889	61	10264	87	14639
10	62	10	1683	36	6058	62	10433	88	14807
11	69	11	1851	37	6226	63	10601	89	14976
12	75	12	2019	38	6394	64	10769	90	15144
13	81	13	2187	39	6562	65	10937	91	15312
14	87	14	2356	40	6731	66	11106	92	15481
15	93	15	2524	41	6899	67	11274	93	15649
16	100	16	2692	42	7067	68	11442	94	15817
17	106	17	2861	43	7235	69	11610	95	15985
18	112	18	3029	44	7404	70	11779	96	16154
19	118	19	3197	45	7572	71	11947	97	16322
20	125	20	3365	46	7740	72	12115	98	16490
21	131	21	3534	47	7909	73	12283	99	16658
22	137	22	3702	48	8077	74	12452	100	16827
23	143	23	3870	49	8245	75	12620	200	33653
24	150	24	4038	50	8413	76	12788	300	50480
25	156	25	4207	51	8582	77	12957	400	67307
26	162	26	4375	52	8750	78	13125	500	84133

TABLE VI.

TO FIND, BY MEASUREMENT, THE WEIGHT OF LIVE CATTLE, SHEEP, AND SWINE, IN IMPERIAL STONES OF 14 LBS., IN SMITHFIELD STONES OF 8 LBS., IN CWTs., AND IN SCORES.

IN the first column of the Table, on the left hand, is placed the girths of the animals, in feet and inches; in the second column, the lengths, in feet and inches; in the columns succeeding, opposite each dimension, is found the weight in Imperial stones and lbs., in Smithfield stones and lbs., in cwt., qrs., and lbs., and in scores and lbs.

To get the dimensions, let the animal be made to stand straight, and take the girth close behind the fore legs, at A B (*see* FRONTISPIECE), in feet and inches, and the length from the top of the shoulder to the bone at the rump, perpendicular to the extremity of the buttock, or from A to C, also in feet and inches. The length of the hog is taken along the curve of the back, as indicated in the figure. Having found the girth and length as directed, look for the girth in the left-hand column, and opposite the length, under their respective headings, stands the weight of the animal in all the various denominations.

EXAMPLE I. Required the weight of a pig which is 4 feet 4 inches in girth, and 3 feet 3 inches in length.

Having found the girth 4 feet 4 inches in the Table, opposite the length 3 feet 3 inches stands 14 stones 8 lbs. Imperial, 25 stones 4 lbs. Smithfield, 1 cwt. 3 qrs. 8 lbs., and 10 scores 4 lbs.; being the weight of the animal in all the denominations, any of which the dealer may take that best suits his business, or the custom of the place in which he resides.

EXAMPLE II. What is the weight of an ox, the girth of which is 5 feet 10 inches, and length 5 feet 1 inch?

Having found the girth 5 feet 10 inches, and length 5 feet 1 inch, opposite thereto stands 41 stones 4 lbs. Imperial, 72 stones 2 lbs. Smithfield, 5 cwt. 18 lbs., and 28 scores 18 lbs.; any of which may be selected as is found most convenient.

It is to be observed that the Table shows the weight of the four quarters only of the animal, or, as it is termed, the weight *sinking offals*, which is little more than half the weight of the

beast, the offals weighing nearly the other half. The skin weighs about the 18th part, and the tallow about the 12th part of the living animal. The head and neck of a pig weighs about one-sixth the weight of the four quarters. The offals of cattle consist of the head, feet, hide, tallow, tripe, blood, &c., and are estimated at from about one-fourth to one-third the price of the four quarters. The offals of swine may be estimated at about one-eighth of the value of the four quarters.

It is also to be noted that the Table is calculated to show the weight of cattle when in pretty good condition. If the animal, of which the weight is required, is extra fat, to the weight found in the Table add its 20th part; and, if lean, and in bad condition, deduct the 20th part. For a cow which has had several calves, and is not in good condition, deduct the 10th part from the weight shown in the Tables, which will then be very nearly the true weight, sinking the offals.

If it be desired to find the weight of an animal in Dutch stones, of $17\frac{1}{2}$ Imperial ounces in its pound, and 16 of these pounds in its stone; or in Scotch Trone stones, varying in different places from 20 to 28 Imperial ounces to the pound, and 16 of these pounds to the stone; there being always the same number of Imperial pounds in a Dutch or Trone stone as there are Imperial ounces in their pound, the Dutch stone will weigh $17\frac{1}{2}$ Imperial pounds, and the Trone stone from 20 to 28 pounds Imperial, in conformity with the usage of different localities. The Rule, then, to turn the Imperial weight found in the Table into any of these weights is to multiply it by 14, the number of pounds in a stone; and if for Dutch, divide the product by $17\frac{1}{2}$; if for Trone, divide by the number of pounds in the stone of the given weight, and the quotient is stones of the weight required. If, after the division of the stones, there is a remainder, multiply it by 16, and divide by the former divisor; the quotient is pounds Dutch, or Trone, as the case may be.

It is to be observed, that a weight consisting of stones and pounds Imperial cannot be accurately converted into Dutch or Trone weight, unless the number by which the pounds in the weight is multiplied, bring up the pounds to exact stones. The reason of which is, that the *ratio* of the Imperial stone is to the Dutch stone as 14 to $17\frac{1}{2}$, and to the Ayrshire stone, in the following example, as 14 to 24, whilst the *ratio* of the Imperial pound is to the Dutch pound as 16 to $17\frac{1}{2}$, and to the Ayrshire pound as 16 to 24. This remark is also applicable when Dutch or Trone weights are to be converted into Imperial.

EXAMPLE. The girth of an ox is 5 feet 9 inches, and its length 4 feet 10 inches; what is its weight in Dutch stones, and also in Ayrshire stones, of 24 Imperial ounces to the pound?

In the Table the weight is found to be 38 stones 2 lbs. Imperial. To find the Dutch weight; on account of the fraction in

the Dutch, we must multiply 14 and $17\frac{1}{2}$, the pounds in the respective stones, by 2, and multiply the weight by 28 and divide by 35.

$$\begin{array}{r}
 \text{Sta. Lbs.} \\
 33 \quad 2 \\
 \hline
 7 \times 4 = 28 \\
 \hline
 267 \quad 0 \\
 \hline
 4 \\
 \hline
 35 \left\{ \begin{array}{l} 7) 1068 \quad 0 \\ 5) 152 \quad 9\frac{1}{2} \\ \hline 30 \quad 8\frac{2}{3} \end{array} \right. \\
 \text{or, 30 stones } 8\frac{2}{3} \text{ lbs. Dutch.}
 \end{array}$$

To find the Ayrshire stones, we may divide 14 and 24 by 2, and then multiply by 7 and divide by 12,

$$\begin{array}{r}
 \text{Sta. Lbs.} \\
 38 \quad 2 \\
 \hline
 7 \\
 \hline
 12) 267 \quad 0 \\
 \hline
 22 \quad 4
 \end{array}$$

Or, 22 stones 4 lbs. Ayrshire Trone.

The following short account of the method of calculating the weight of animals by the pen, and constructing the Table, may be found useful.

It has been ascertained, by a number of experiments, that if the girth and length of cattle are taken as formerly directed, and the solid content found by the rule for calculating the solid content of cylinders, each cubic or solid foot will indicate a weight of 3 Imperial stones, and the third part of a cubic foot, or 576 cubic inches, will consequently be equal to 1 stone. If, therefore, the whole content in cubic inches is divided by 576, the quotient will be the number of Imperial stones in the four quarters of the animal.

RULE 1. Multiply the square of the girth of the animal by the length, both in inches, and the product, multiplied by the decimal .07958, will give the content in cubic inches; which divide by 576, and the quotient is the weight of the animal in Imperial stones of 14 lbs.

2. Multiply the square of the girth by the length, both in inches; and divide the product by 7238, and the quotient is the weight in Imperial stones.

3. Multiply the square of the girth by the length, both in inches, and that product multiply by the decimal .00013816, the product is the weight in Imperial stones.

NOTE. The divisor 7238, in Rule second, is the quotient of 576 divided by .07958, and the multiplier .00013816, in Rule third, is the quotient of .07958 divided by 576.

EXAMPLE. The girth of an ox is 88 inches, and length 63 inches. Required its weight in Imperial stones?

By Rule 1st,

$$88^2 = 7744 \times 63 = 487872 \times .07958 = 38824.85376 \div 576 = 67.40426 \text{ stones,}$$

and $.40426 \times 14 = 5.65964$ lbs., and $.65964 \times 16 = 10.55424$ ounces, making the weight 67 stones 5 lbs. $10\frac{1}{2}$ ounces.

By Rule 2d,

$$88^2 = 7744 \times 63 = 487872 \div 7238 = 67.404255 \text{ stones; the fractional part of which may be reduced to pounds and ounces as above.}$$

By Rule 3d,

$$88^2 = 7744 \times 63 = 487872 \times .00013816 = 67.40439552 \text{ stones.}$$

By the Table the content is found to be 67 stones 6 lbs. The slight difference from the Table, by the first Rule, is caused by taking the remaining fraction .65964, which is above a half-pound as 1. By Rule 2d, the divisor is a very small fraction too large, and by Rule 3d, the multiplier is also a very small fraction too large.

The number 7238, multiplied by 8, and divided by 14 = 4136. is the divisor for Smithfield stones.

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
2	0	1	9	1	9	2	7	0	0	23	1	3
		1	10	1	11	3	1	0	0	25	1	5
		1	11	1	12	3	2	0	0	26	1	6
		2	0	1	13	3	3	0	0	27	1	7
		2	1	2	0	3	4	0	1	0	1	8
		2	2	2	1	3	5	0	1	1	1	9
		2	3	2	2	3	6	0	1	2	1	10
2	1	1	9	1	11	3	1	0	0	25	1	5
		1	10	1	13	3	3	0	0	27	1	7
		1	11	2	0	3	4	0	1	0	1	8
		2	0	2	1	3	5	0	1	1	1	9
		2	1	2	2	3	6	0	1	2	1	10
		2	2	2	3	3	7	0	1	3	1	11
		2	3	2	5	4	1	0	1	5	1	13
2	2	1	9	1	13	3	3	0	0	27	1	7
		1	10	2	1	3	5	0	1	1	1	9
		1	11	2	2	3	6	0	1	2	1	10
		2	0	2	3	3	7	0	1	3	1	11
		2	1	2	5	4	1	0	1	5	1	13
		2	2	2	6	4	2	0	1	6	1	14
		2	3	2	7	4	3	0	1	7	1	15
2	4	2	9	4	5	0	1	9	1	17		
2	3	1	9	2	2	3	6	0	1	2	1	10
		1	10	2	3	3	7	0	1	3	1	11
		1	11	2	4	4	0	0	1	4	1	12
		2	0	2	6	4	2	0	1	6	1	14
		2	1	2	7	4	3	0	1	7	1	15
		2	2	2	9	4	5	0	1	9	1	17
		2	3	2	10	4	6	0	1	10	1	18
2	4	2	11	4	7	0	1	11	1	19		
2	4	1	9	2	4	3	8	0	1	4	1	12
		1	10	2	5	4	1	0	1	5	1	13
		1	11	2	7	4	3	0	1	7	1	15
		2	0	2	8	4	4	0	1	8	1	16
		2	1	2	10	4	6	0	1	10	1	18
		2	2	2	11	4	7	0	1	11	1	19
		2	3	2	13	5	1	0	1	13	2	1
2	4	3	0	5	2	0	1	14	2	2		
2	5	3	2	5	4	0	1	16	2	4		
2	5	1	9	2	6	4	2	0	1	6	1	14
		1	10	2	8	4	4	0	1	8	1	16

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Pt.	In.	Pt.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
2	5	1	11	2	9	4	5	0	1	9	1	17
		2	0	2	11	4	7	0	1	11	1	19
		2	1	2	13	5	1	0	1	13	2	1
		2	2	3	0	5	2	0	1	14	2	2
		2	3	3	2	5	4	0	1	16	2	4
		2	4	3	4	5	6	0	1	18	2	6
		2	5	3	5	5	7	0	1	19	2	7
2	6	1	9	2	9	4	5	0	1	9	1	17
		1	10	2	10	4	6	0	1	10	1	18
		1	11	2	12	5	0	0	1	12	2	0
		2	0	3	0	5	2	0	1	14	2	2
		2	1	3	2	5	4	0	1	16	2	4
		2	2	3	3	5	5	0	1	17	2	5
		2	3	3	5	5	7	0	1	19	2	7
		2	4	3	7	6	1	0	1	21	2	9
2	5	3	8	6	2	0	1	22	2	10		
2	7	1	10	2	13	5	1	0	1	13	2	1
		1	11	3	1	5	3	0	1	15	2	3
		2	0	3	3	5	5	0	1	17	2	5
		2	1	3	4	5	6	0	1	18	2	6
		2	2	3	6	6	0	0	1	20	2	8
		2	3	3	8	6	2	0	1	22	2	10
		2	4	3	10	6	4	0	1	24	2	12
		2	5	3	12	6	6	0	1	26	2	14
		2	6	4	0	7	0	0	2	0	2	16
2	8	1	10	3	2	5	4	0	1	16	2	4
		1	11	3	4	5	6	0	1	18	2	6
		2	0	3	6	6	0	0	1	20	2	8
		2	1	3	8	6	2	0	1	22	2	10
		2	2	3	9	6	3	0	1	23	2	11
		2	3	3	11	6	5	0	1	25	2	13
		2	4	3	13	6	7	0	1	27	2	15
		2	5	4	1	7	1	0	2	1	2	17
		2	6	4	3	7	3	0	2	3	2	19
		2	7	4	5	7	5	0	2	5	3	1
		2	8	4	7	7	7	0	2	7	3	3
2	9	1	11	3	6	6	0	0	1	20	2	8
		2	0	3	9	6	3	0	1	23	2	11
		2	1	3	11	6	5	0	1	25	2	13
		2	2	3	13	6	7	0	1	27	2	15
		2	3	4	1	7	1	0	2	1	2	17
		2	4	4	3	7	3	0	2	3	2	19

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
2 9	2	5	4	5	7	5	0	2	5	3	1
	2	6	4	7	7	7	0	2	7	3	3
	2	7	4	9	8	1	0	2	9	3	5
	2	8	4	11	8	3	0	2	11	3	7
	2	9	5	0	8	6	0	2	14	3	10
2 10	1	11	3	9	6	3	0	1	23	2	11
	2	0	3	12	6	6	0	1	26	2	14
	2	1	4	0	7	0	0	2	0	2	16
	2	2	4	2	7	2	0	2	2	2	18
	2	3	4	4	7	4	0	2	4	3	0
	2	4	4	7	7	7	0	2	7	3	3
	2	5	4	9	8	1	0	2	9	3	5
	2	6	4	11	8	3	0	2	11	3	7
	2	7	4	13	8	5	0	2	13	3	9
	2	8	5	2	9	0	0	2	16	3	12
	2	9	5	4	9	2	0	2	18	3	14
	2	10	5	6	9	4	0	2	20	3	16
2 11	2	0	4	1	7	1	0	2	1	2	17
	2	1	4	3	7	3	0	2	3	2	19
	2	2	4	6	7	6	0	2	6	3	2
	2	3	4	8	8	0	0	2	8	3	4
	2	4	4	10	8	2	0	2	10	3	6
	2	5	4	13	8	5	0	2	13	3	9
	2	6	5	1	8	7	0	2	15	3	11
	2	7	5	3	9	1	0	2	17	3	13
	2	8	5	6	9	4	0	2	20	3	16
	2	9	5	8	9	6	0	2	22	3	18
	2	10	5	11	10	1	0	2	25	4	1
	2	11	5	13	10	3	0	2	27	4	3
3 0	2	0	4	4	7	4	0	2	4	3	0
	2	1	4	7	7	7	0	2	7	3	3
	2	2	4	9	8	1	0	2	9	3	5
	2	3	4	12	8	4	0	2	12	3	8
	2	4	5	0	8	6	0	2	14	3	10
	2	5	5	3	9	1	0	2	17	3	13
	2	6	5	5	9	3	0	2	19	3	15
	2	7	5	8	9	6	0	2	22	3	18
	2	8	5	10	10	0	0	2	24	4	0
	2	9	5	13	10	3	0	2	27	4	3
	2	10	6	1	10	5	0	3	1	4	5
	2	11	6	4	11	0	0	3	4	4	8
	3	0	6	6	11	2	0	3	6	4	10

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
3	1	2	1	4	10	8	2	0	2	10	3	6		
		2	2	4	13	8	5	0	2	13	3	9		
		2	3	5	1	8	7	0	2	15	3	11		
		2	4	5	4	9	2	0	2	18	3	14		
		2	5	5	7	9	5	0	2	21	3	17		
		2	6	5	9	9	7	0	2	23	3	19		
		2	7	5	12	10	2	0	2	26	4	2		
		2	8	6	1	10	5	0	3	1	4	5		
		2	9	6	3	10	7	0	3	3	4	7		
		2	10	6	6	11	2	0	3	6	4	10		
		2	11	6	9	11	5	0	3	9	4	13		
		3	0	6	11	11	7	0	3	11	4	15		
		3	1	7	0	12	2	0	3	14	4	18		
		3	2	2	1	5	0	8	6	0	2	14	3	10
				2	2	5	3	9	1	0	2	17	3	13
				2	3	5	5	9	3	0	2	19	3	15
2	4			5	8	9	6	0	2	22	3	18		
2	5			5	11	10	1	0	2	25	4	1		
2	6			6	0	10	4	0	3	0	4	4		
2	7			6	3	10	7	0	3	3	4	7		
2	8			6	5	11	1	0	3	5	4	9		
2	9			6	8	11	4	0	3	8	4	12		
2	10			6	11	11	7	0	3	11	4	15		
2	11			7	0	12	2	0	3	14	4	18		
3	0			7	3	12	5	0	3	17	5	1		
3	1			7	5	12	7	0	3	19	5	3		
3	2			7	8	13	2	0	3	22	5	6		
3	3	2	2	5	6	9	4	0	2	20	3	16		
		2	3	5	9	9	7	0	2	23	3	19		
		2	4	5	12	10	2	0	2	26	4	2		
		2	5	6	1	10	5	0	3	1	4	5		
		2	6	6	4	11	0	0	3	4	4	8		
		2	7	6	7	11	3	0	3	7	4	11		
		2	8	6	10	11	6	0	3	10	4	14		
		2	9	6	13	12	1	0	3	13	4	17		
		2	10	7	2	12	4	0	3	16	5	0		
		2	11	7	5	12	7	0	3	19	5	3		
		3	0	7	8	13	2	0	3	22	5	6		
		3	1	7	11	13	5	0	3	25	5	9		
		3	2	8	0	14	0	1	0	0	5	12		
		3	3	8	3	14	3	1	0	3	5	15		
3	4	2	2	5	10	10	0	0	2	24	4	0		
		2	3	6	0	10	4	0	3	0	4	4		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
3 4	2	4	6	3	10	7	0	3	3	4	7
	2	5	6	6	11	2	0	3	6	4	10
	2	6	6	9	11	5	0	3	9	4	13
	2	7	6	12	12	0	0	3	12	4	16
	2	8	7	1	12	3	0	3	15	4	19
	2	9	7	4	12	6	0	3	18	5	2
	2	10	7	7	13	1	0	3	21	5	5
	2	11	7	10	13	4	0	3	24	5	8
	3	0	7	13	13	7	0	3	27	5	11
	3	1	8	3	14	3	1	0	3	5	15
	3	2	8	6	14	6	1	0	6	5	18
	3	3	8	9	15	1	1	0	9	6	1
	3	4	8	12	15	4	1	0	12	6	4
	3 6	2	3	6	4	11	0	0	3	4	4
2		4	6	7	11	3	0	3	7	4	11
2		5	6	10	11	6	0	3	10	4	14
2		6	7	0	12	2	0	3	14	4	18
2		7	7	3	12	5	0	3	17	5	1
2		8	7	6	13	0	0	3	20	5	4
2		9	7	9	13	3	0	3	23	5	7
2		10	7	13	13	7	0	3	27	5	11
2		11	8	2	14	2	1	0	2	5	14
3		0	8	5	14	5	1	0	5	5	17
3		1	8	8	15	0	1	0	8	6	0
3		2	8	12	15	4	1	0	12	6	4
3		3	9	1	15	7	1	0	15	6	7
3		4	9	4	16	2	1	0	18	6	10
3 7	2	3	6	8	11	4	0	3	8	4	12
	2	4	6	12	12	0	0	3	12	4	16
	2	5	7	1	12	3	0	3	15	4	19
	2	6	7	4	12	6	0	3	18	5	2
	2	7	7	8	13	2	0	3	22	5	6
	2	8	7	11	13	5	0	3	25	5	9
	2	9	8	1	14	1	1	0	1	5	13
	2	10	8	4	14	4	1	0	4	5	16
	2	11	8	7	14	7	1	0	7	5	19
	3	0	8	11	15	3	1	0	11	6	3
	3	1	9	0	15	6	1	0	14	6	6
	3	2	9	4	16	2	1	0	18	6	10
	3	3	9	7	16	5	1	0	21	6	16
	3	4	9	10	17	0	1	0	24	6	13
3	5	10	0	17	4	1	1	0	7	0	
3 7	2	4	7	2	12	4	0	3	16	5	0

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
3	7	2	5	7	6	13	0	0	3	20	5	4		
		2	6	7	9	13	3	0	3	23	5	7		
		2	7	7	13	13	7	0	3	27	5	11		
		2	8	8	2	14	2	1	0	2	5	14		
		2	9	8	6	14	6	1	0	6	5	18		
		2	10	8	10	15	2	1	0	10	6	2		
		2	11	8	13	15	5	1	0	13	6	5		
		3	0	9	3	16	1	1	0	17	6	9		
		3	1	9	6	16	4	1	0	20	6	12		
		3	2	9	10	17	0	1	0	24	6	16		
		3	3	9	13	17	3	1	0	27	6	19		
		3	4	10	3	17	7	1	1	3	7	3		
		3	5	10	7	18	3	1	1	7	7	7		
		3	8	2	4	7	7	13	1	0	3	21	5	5
				2	5	7	11	13	5	0	3	25	5	9
2	6			8	0	14	0	1	0	0	5	12		
2	7			8	4	14	4	1	0	4	5	16		
2	8			8	8	15	0	1	0	8	6	0		
2	9			8	12	15	4	1	0	12	6	4		
2	10			9	1	15	7	1	0	15	6	7		
2	11			9	5	16	3	1	0	19	6	11		
3	0			9	9	16	7	1	0	23	6	15		
3	1			9	13	17	3	1	0	27	6	19		
3	2			10	2	17	6	1	1	2	7	2		
3	3			10	6	18	2	1	1	6	7	6		
3	4			10	10	18	6	1	1	10	7	10		
3	5			11	0	19	2	1	1	14	7	14		
3	6			11	3	19	5	1	1	17	7	17		
3	9	2	5	8	2	14	2	1	0	2	5	14		
		2	6	8	6	14	6	1	0	6	5	18		
		2	7	8	9	15	1	1	0	9	6	1		
		2	8	8	13	15	5	1	0	13	6	5		
		2	9	9	3	16	1	1	0	17	6	9		
		2	10	9	7	16	5	1	0	21	6	13		
		2	11	9	11	17	1	1	0	25	6	17		
		3	0	10	1	17	5	1	1	1	7	1		
		3	1	10	5	18	1	1	1	5	7	5		
		3	2	10	9	18	5	1	1	9	7	9		
		3	3	10	13	19	1	1	1	13	7	13		
		3	4	11	3	19	5	1	1	17	7	17		
		3	5	11	7	20	1	1	1	21	8	1		
		3	6	11	11	20	5	1	1	25	8	5		
		3	10	2	5	8	7	14	7	1	0	7	5	19

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
3	10	2	6	8	11	15	3	1	0	11	6	3		
		2	7	9	1	15	7	1	0	15	6	7		
		2	8	9	5	16	3	1	0	19	6	11		
		2	9	9	9	16	7	1	0	23	6	15		
		2	10	9	13	17	3	1	0	27	6	19		
		2	11	10	3	17	7	1	1	3	7	3		
		3	0	10	7	18	3	1	1	7	7	7		
		3	1	10	11	18	7	1	1	11	7	11		
		3	2	11	2	19	4	1	1	16	7	16		
		3	3	11	6	20	0	1	1	20	8	0		
		3	4	11	10	20	4	1	1	24	8	4		
		3	5	12	0	21	0	1	2	0	8	8		
		3	6	12	4	21	4	1	2	4	8	12		
		3	7	12	8	22	0	1	2	8	8	16		
		3	11	2	6	9	2	16	0	1	0	16	6	8
				2	7	9	6	16	4	1	0	20	6	12
2	8			9	11	17	1	1	0	25	6	17		
2	9			10	1	17	5	1	1	1	7	1		
2	10			10	5	18	1	1	1	5	7	5		
2	11			10	10	18	6	1	1	10	7	10		
3	0			11	0	19	2	1	1	14	7	14		
3	1			11	4	19	6	1	1	18	7	18		
3	2			11	8	20	2	1	1	22	8	2		
3	3			11	13	20	7	1	1	27	8	7		
3	4			12	3	21	3	1	2	3	8	11		
3	5			12	7	21	7	1	2	7	8	15		
3	6			12	11	22	3	1	2	11	8	19		
3	7			13	2	23	0	1	2	16	9	4		
3	8			13	6	23	4	1	2	20	9	8		
4	0			2	6	9	8	16	6	1	0	22	6	14
		2	7	9	12	17	2	1	0	26	6	18		
		2	8	10	3	17	7	1	1	3	7	3		
		2	9	10	7	18	3	1	1	7	7	7		
		2	10	10	12	19	0	1	1	12	7	12		
		2	11	11	2	19	4	1	1	16	7	16		
		3	0	11	6	20	0	1	1	20	8	0		
		3	1	11	11	20	5	1	1	25	8	5		
		3	2	12	1	21	1	1	2	1	8	9		
		3	3	12	6	21	6	1	2	6	8	14		
		3	4	12	10	22	2	1	2	10	8	18		
		3	5	13	1	22	7	1	2	15	9	3		
		3	6	13	5	23	3	1	2	19	9	7		
		3	7	13	10	24	0	1	2	24	9	12		
		3	8	14	0	24	4	1	3	0	9	16		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
4	0	3	9	14	5	25	1	1	3	5	10	1
4	1	2	7	10	4	18	0	1	1	4	7	4
		2	8	10	9	18	5	1	1	9	7	9
		2	9	10	13	19	1	1	1	13	7	13
		2	10	11	4	19	6	1	1	18	7	18
		2	11	11	9	20	3	1	1	23	8	3
		3	0	11	13	20	7	1	1	27	8	7
		3	1	12	4	21	4	1	2	4	8	12
		3	2	12	8	22	0	1	2	8	8	16
		3	3	12	13	22	5	1	2	13	9	1
		3	4	13	4	23	2	1	2	18	9	6
		3	5	13	8	23	6	1	2	22	9	10
		3	6	13	13	24	3	1	2	27	9	15
		3	7	14	4	25	0	1	3	4	10	0
		3	8	14	8	25	4	1	3	8	10	4
3	9	14	13	26	1	1	3	13	10	9		
3	10	15	4	26	6	1	3	18	10	14		
4	2	2	7	10	10	18	6	1	1	10	7	10
		2	8	11	1	19	3	1	1	15	7	15
		2	9	11	6	20	0	1	1	20	8	0
		2	10	11	10	20	4	1	1	24	8	4
		2	11	12	1	21	1	1	2	1	8	9
		3	0	12	6	21	6	1	2	6	8	14
		3	1	12	11	22	3	1	2	11	8	19
		3	2	13	2	23	0	1	2	16	9	4
		3	3	13	7	23	5	1	2	21	9	9
		3	4	13	11	24	1	1	2	25	9	13
		3	5	14	2	24	6	1	3	2	9	18
		3	6	14	7	25	3	1	3	7	10	3
		3	7	14	12	26	0	1	3	12	10	8
		3	8	15	3	26	5	1	3	17	10	13
3	9	15	8	27	2	1	3	22	10	18		
3	10	15	12	27	6	1	3	26	11	2		
3	11	16	3	28	3	2	0	3	11	7		
4	3	2	8	11	7	20	1	1	1	21	8	1
		2	9	11	12	20	6	1	1	26	8	6
		2	10	12	3	21	3	1	2	3	8	11
		2	11	12	8	22	0	1	2	8	8	16
		3	0	12	13	22	5	1	2	13	9	1
		3	1	13	4	23	2	1	2	18	9	6
		3	2	13	9	23	7	1	2	23	9	11
		3	3	14	0	24	4	1	3	0	9	16
		3	4	14	5	25	1	1	3	5	10	1

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
4	3	3	5	14	10	25	6	1	3	10	10	6
		3	6	15	1	26	3	1	3	15	10	11
		3	7	15	6	27	0	1	3	20	10	16
		3	8	15	11	27	5	1	3	25	11	1
		3	9	16	2	28	2	2	0	2	11	6
		3	10	16	7	28	7	2	0	7	11	11
		3	11	16	12	29	4	2	0	12	11	16
		4	0	17	3	30	1	2	0	17	12	1
4	4	2	8	11	13	20	7	1	1	27	8	7
		2	9	12	5	21	5	1	2	5	8	13
		2	10	12	10	22	2	1	2	10	8	18
		2	11	13	1	22	7	1	2	15	9	3
		3	0	13	6	23	4	1	2	20	9	8
		3	1	13	12	24	2	1	2	26	9	14
		3	2	14	3	24	7	1	3	3	9	19
		3	3	14	8	25	4	1	3	8	10	4
		3	4	14	13	26	1	1	3	13	10	9
		3	5	15	4	26	6	1	3	18	10	14
		3	6	15	10	27	4	1	3	24	11	0
		3	7	16	1	28	1	2	0	1	11	5
		3	8	16	6	28	6	2	0	6	11	10
		3	9	16	11	29	3	2	0	11	11	15
		3	10	17	3	30	1	2	0	17	12	1
		3	11	17	8	30	6	2	0	22	12	6
4	0	17	13	31	3	2	0	27	12	11		
4	1	18	4	32	0	2	1	4	12	16		
4	5	2	9	12	11	22	3	1	2	11	8	19
		2	10	13	3	23	1	1	2	17	9	5
		2	11	13	8	23	6	1	2	22	9	10
		3	0	14	0	24	4	1	3	0	9	16
		3	1	14	5	25	1	1	3	5	10	1
		3	2	14	10	25	6	1	3	10	10	6
		3	3	15	2	26	4	1	3	16	10	12
		3	4	15	7	27	1	1	3	21	10	17
		3	5	15	13	27	7	1	3	27	11	3
		3	6	16	4	28	4	2	0	4	11	8
		3	7	16	10	29	2	2	0	10	11	14
		3	8	17	1	29	7	2	0	15	11	19
		3	9	17	6	30	4	2	0	20	12	4
		3	10	17	12	31	2	2	0	26	12	10
		3	11	18	3	31	7	2	1	3	12	15
		4	0	18	9	32	5	2	1	9	13	1
		4	1	19	0	33	2	2	1	14	13	6
		4	2	19	6	34	0	2	1	20	13	12

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
4	6	2	9	13	4	23	2	1	2	18	9	6
		2	10	13	10	24	0	1	2	24	9	12
		2	11	14	1	24	5	1	3	1	9	17
		3	0	14	7	25	3	1	3	7	10	3
		3	1	14	13	26	1	1	3	13	10	9
		3	2	15	4	26	6	1	3	18	10	14
		3	3	15	10	27	4	1	3	24	11	0
		3	4	16	2	28	2	2	0	2	11	6
		3	5	16	7	28	7	2	0	7	11	11
		3	6	16	13	29	5	2	0	13	11	17
		3	7	17	5	30	3	2	0	19	12	3
		3	8	17	10	31	0	2	0	24	12	8
		3	9	18	2	31	6	2	1	2	12	14
		3	10	18	7	32	3	2	1	7	12	19
		3	11	18	13	33	1	2	1	13	13	5
		4	0	19	5	33	7	2	1	19	13	11
4	1	19	10	34	4	2	1	24	13	16		
4	2	20	2	35	2	2	2	2	14	2		
4	3	20	8	36	0	2	2	8	14	8		
4	7	2	10	14	3	24	7	1	3	3	9	19
		2	11	14	9	25	5	1	3	9	10	5
		3	0	15	1	26	3	1	3	15	10	11
		3	1	15	6	27	0	1	3	20	10	16
		3	2	15	12	27	6	1	3	26	11	2
		3	3	16	4	28	4	2	0	4	11	8
		3	4	16	10	29	2	2	0	10	11	14
		3	5	17	2	30	0	2	0	16	12	0
		3	6	17	8	30	6	2	0	22	12	6
		3	7	18	0	31	4	2	1	0	12	12
		3	8	18	5	32	1	2	1	5	12	17
		3	9	18	11	32	7	2	1	11	13	3
		3	10	19	3	33	5	2	1	17	13	9
		3	11	19	9	34	3	2	1	23	13	15
		4	0	20	1	35	1	2	2	1	14	1
		4	1	20	7	35	7	2	2	7	14	7
4	2	20	13	36	5	2	2	13	14	13		
4	3	21	4	37	2	2	2	18	14	18		
4	4	21	10	38	0	2	2	24	15	4		
4	8	2	10	14	10	25	6	1	3	10	10	6
		2	11	15	2	26	4	1	3	16	10	12
		3	0	15	8	27	2	1	3	22	10	18
		3	1	16	0	28	0	2	0	0	11	4
		3	2	16	6	28	6	2	0	6	11	10
		3	3	16	13	29	5	2	0	13	11	17

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
4	8	3	4	17	5	30	3	2	0	19	12	3		
		3	5	17	11	31	1	2	0	25	12	9		
		3	6	18	3	31	7	2	1	3	12	15		
		3	7	18	9	32	5	2	1	9	13	1		
		3	8	19	1	33	3	2	1	15	13	7		
		3	9	19	7	34	1	2	1	21	13	13		
		3	10	19	13	34	7	2	1	27	13	19		
		3	11	20	5	35	5	2	2	5	14	5		
		4	0	20	11	36	3	2	2	11	14	11		
		4	1	21	3	37	1	2	2	17	14	17		
		4	2	21	9	37	7	2	2	23	15	3		
		4	3	22	1	38	5	2	3	1	15	9		
		4	4	22	7	39	3	2	3	7	15	15		
		4	5	22	13	40	1	2	3	13	16	1		
		4	9	2	11	15	10	27	4	1	3	24	11	0
				3	0	16	2	28	2	2	0	2	11	6
3	1			16	9	29	1	2	0	9	11	13		
3	2			17	1	29	7	2	0	15	11	19		
3	3			17	7	30	5	2	0	21	12	5		
3	4			17	13	31	3	2	0	27	12	11		
3	5			18	6	32	2	2	1	6	12	18		
3	6			18	12	33	0	2	1	12	13	4		
3	7			19	4	33	6	2	1	18	13	10		
3	8			19	11	34	5	2	1	25	13	17		
3	9			20	3	35	3	2	2	3	14	3		
3	10			20	9	36	1	2	2	9	14	9		
3	11			21	1	36	7	2	2	15	14	15		
4	0			21	8	37	6	2	2	22	15	2		
4	1			22	0	38	4	2	3	0	15	8		
4	2			22	6	39	2	2	3	6	15	14		
4	3	22	13	40	1	2	3	13	16	1				
4	4	23	5	40	7	2	3	19	16	7				
4	5	23	11	41	5	2	3	25	16	13				
4	6	24	3	42	3	3	0	3	16	19				
4	10	2	11	16	4	28	4	2	0	4	11	8		
		3	0	16	10	29	2	2	0	10	11	14		
		3	1	17	3	30	1	2	0	17	12	1		
		3	2	17	9	30	7	2	0	23	12	7		
		3	3	18	2	31	6	2	1	2	12	14		
		3	4	18	8	32	4	2	1	8	13	0		
		3	5	19	1	33	3	2	1	15	13	7		
		3	6	19	7	34	1	2	1	21	13	13		
		3	7	20	0	35	0	2	2	0	14	0		
		3	8	20	6	35	6	2	2	6	14	6		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft. In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
4 10	3	9	20	13	36	5	2	2	13	14	13
	3	10	21	5	37	3	2	2	19	14	19
	3	11	21	12	38	2	2	2	26	15	6
	4	0	22	4	39	0	2	3	4	15	12
	4	1	22	11	39	7	2	3	11	15	19
	4	2	23	3	40	5	2	3	17	16	5
	4	3	23	10	41	4	2	3	24	16	12
	4	4	24	2	42	2	3	0	2	16	18
	4	5	24	9	43	1	3	0	9	17	5
	4	6	25	1	43	7	3	0	15	17	11
	4	7	25	8	44	6	3	0	22	17	18
	4 11	3	0	17	4	30	2	2	0	18	12
3		1	17	11	31	1	2	0	25	12	9
3		2	18	4	32	0	2	1	4	12	16
3		3	18	11	32	7	2	1	11	13	3
3		4	19	3	33	5	2	1	17	13	9
3		5	19	10	34	4	2	1	24	13	16
3		6	20	3	35	3	2	2	3	14	3
3		7	20	10	36	2	2	2	10	14	10
3		8	21	2	37	0	2	2	16	14	16
3		9	21	9	37	7	2	2	23	15	3
3		10	22	2	38	6	2	3	2	15	10
3		11	22	8	39	4	2	3	8	15	16
4		0	23	1	40	3	2	3	15	16	3
4		1	23	8	41	2	2	3	22	16	10
4		2	24	1	42	1	3	0	1	16	17
4		3	24	7	42	7	3	0	7	17	3
4		4	25	0	43	6	3	0	14	17	10
4		5	25	7	44	5	3	0	21	17	17
4	6	26	0	45	4	3	1	0	18	4	
4	7	26	6	46	2	3	1	6	18	10	
4	8	26	13	47	1	3	1	13	18	17	
5 0	3	0	17	13	31	3	2	0	27	12	11
	3	1	18	6	32	2	2	1	6	12	18
	3	2	18	13	33	1	2	1	13	13	5
	3	3	19	6	34	0	2	1	20	13	12
	3	4	19	13	34	7	2	1	27	13	19
	3	5	20	5	35	5	2	2	5	14	5
	3	6	20	12	36	4	2	2	12	14	12
	3	7	21	5	37	3	2	2	19	14	19
	3	8	21	12	38	2	2	2	26	15	6
	3	9	22	5	39	1	2	3	5	15	13
	3	10	22	12	40	0	2	3	12	16	0
	3	11	23	5	40	7	2	3	19	16	7

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
5	0	4	0	23	12	41	6	2	3	26	16	14		
		4	1	24	5	42	5	3	0	5	17	1		
		4	2	24	12	43	4	3	0	12	17	8		
		4	3	25	5	44	3	3	0	19	17	15		
		4	4	25	12	45	2	3	0	26	18	2		
		4	5	26	5	46	1	3	1	5	18	9		
		4	6	26	12	47	0	3	1	12	18	16		
		4	7	27	5	47	7	3	1	19	19	3		
		4	8	27	12	48	6	3	1	26	19	10		
		4	9	28	5	49	5	3	2	5	19	17		
		5	1	3	1	19	0	33	2	2	1	14	13	6
				3	2	19	7	34	1	2	1	21	13	13
3	3			20	1	35	1	2	2	1	14	1		
3	4			20	8	36	0	2	2	8	14	8		
3	5			21	1	36	7	2	2	15	14	15		
3	6			21	8	37	6	2	2	22	15	2		
3	7			22	1	38	5	2	3	1	15	9		
3	8			22	9	39	5	2	3	9	15	17		
3	9			23	2	40	4	2	3	16	16	4		
3	10			23	9	41	3	2	3	23	16	11		
3	11			24	2	42	2	3	0	2	16	13		
4	0			24	9	43	1	3	0	9	17	5		
4	1			25	3	44	1	3	0	17	17	13		
4	2			25	10	45	0	3	0	24	18	0		
4	3			26	3	45	7	3	1	3	18	7		
4	4			26	10	46	6	3	1	10	18	14		
4	5			27	3	47	5	3	1	17	19	1		
4	6			27	11	48	5	3	1	25	19	9		
4	7			28	4	49	4	3	2	4	19	16		
4	8			28	11	50	3	3	2	11	20	3		
4	9	29	4	51	2	3	2	18	20	10				
4	10	29	11	52	1	3	2	25	20	17				
5	2	3	1	19	9	34	3	2	1	23	13	15		
		3	2	20	3	35	3	2	2	3	14	3		
		3	3	20	10	36	2	2	2	10	14	10		
		3	4	21	3	37	1	2	2	17	14	17		
		3	5	21	11	38	1	2	2	25	15	5		
		3	6	22	4	39	0	2	3	4	15	12		
		3	7	22	12	40	0	2	3	12	16	0		
		3	8	23	5	40	7	2	3	19	16	7		
		3	9	23	13	41	7	2	3	27	16	15		
		3	10	24	6	42	6	3	0	6	17	2		
		3	11	24	13	43	5	3	0	13	17	9		
		4	0	25	7	44	5	3	0	21	17	17		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
5 2	4	1	26	0	45	4	3	1	0	18	4
	4	2	26	8	46	4	3	1	8	18	12
	4	3	27	1	47	3	3	1	15	18	19
	4	4	27	9	48	3	3	1	23	19	7
	4	5	28	2	49	2	3	2	2	19	14
	4	6	28	10	50	2	3	2	10	20	2
	4	7	29	3	51	1	3	2	17	20	9
	4	8	29	10	52	0	3	2	24	20	16
	4	9	30	4	53	0	3	3	4	21	4
	4	10	30	11	53	7	3	3	11	21	11
	4	11	31	5	54	7	3	3	19	21	19
5 3	3	2	20	12	36	4	2	2	12	14	12
	3	3	21	5	37	3	2	2	19	14	19
	3	4	21	13	38	3	2	2	27	15	7
	3	5	22	7	39	3	2	3	7	15	15
	3	6	23	0	40	2	2	3	14	16	2
	3	7	23	8	41	2	2	3	22	16	10
	3	8	24	2	42	2	3	0	2	16	18
	3	9	24	9	43	1	3	0	9	17	5
	3	10	25	3	44	1	3	0	17	17	13
	3	11	25	11	45	1	3	0	25	18	1
	4	0	26	4	46	0	3	1	4	18	8
	4	1	26	12	47	0	3	1	12	18	16
	4	2	27	6	48	0	3	1	20	19	4
	4	3	28	0	49	0	3	2	0	19	12
	4	4	28	7	49	7	3	2	7	19	19
	4	5	29	1	50	7	3	2	15	20	7
	4	6	29	9	51	7	3	2	23	20	15
	4	7	30	2	52	6	3	3	2	21	2
	4	8	30	10	53	6	3	3	10	21	10
	4	9	31	4	54	6	3	3	18	21	18
4	10	31	11	55	5	3	3	25	22	5	
4	11	32	5	56	5	4	0	5	22	13	
5	0	32	13	57	5	4	0	13	23	1	
5 4	3	2	21	7	37	5	2	2	21	15	1
	3	3	22	1	38	5	2	3	1	15	9
	3	4	22	9	39	5	2	3	9	15	17
	3	5	23	3	40	5	2	3	17	16	5
	3	6	23	11	41	5	2	3	25	16	13
	3	7	24	5	42	5	3	0	5	17	1
	3	8	24	13	43	5	3	0	13	17	9
	3	9	25	7	44	5	3	0	21	17	17
	3	10	26	0	45	4	3	1	0	18	4
	3	11	26	8	46	4	3	1	8	18	12

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
5	4	4	0	27	2	47	4	3	1	16	19	0		
		4	1	27	10	48	4	3	1	24	19	8		
		4	2	28	4	49	4	3	2	4	19	16		
		4	3	28	12	50	4	3	2	12	20	4		
		4	4	29	6	51	4	3	2	20	20	12		
		4	5	30	0	52	4	3	3	0	21	0		
		4	6	30	8	53	4	3	3	8	21	8		
		4	7	31	2	54	4	3	3	16	21	16		
		4	8	31	10	55	4	3	3	24	22	4		
		4	9	32	4	56	4	4	0	4	22	12		
		4	10	32	12	57	4	4	0	12	23	0		
		4	11	33	5	58	3	4	0	19	23	7		
		5	0	33	13	59	3	4	0	27	23	15		
		5	1	34	7	60	3	4	1	7	24	3		
		5	5	3	3	22	11	39	7	2	3	11	15	19
				3	4	23	5	40	7	2	3	19	16	7
3	5			23	13	41	7	2	3	27	16	15		
3	6			24	7	42	7	3	0	7	17	3		
3	7			25	1	43	7	3	0	15	17	11		
3	8			25	10	45	0	3	0	24	18	0		
3	9			26	4	46	0	3	1	4	18	8		
3	10			26	12	47	0	3	1	12	18	16		
3	11			27	6	48	0	3	1	20	19	4		
4	0			28	0	49	0	3	2	0	19	12		
4	1			28	8	50	0	3	2	8	20	0		
4	2			29	3	51	1	3	2	17	20	9		
4	3			29	11	52	1	3	2	25	20	17		
4	4			30	5	53	1	3	3	5	21	5		
4	5			30	13	54	1	3	3	13	21	13		
4	6			31	7	55	1	3	3	21	22	1		
4	7			32	1	56	1	4	0	1	22	9		
4	8			32	10	57	2	4	0	10	22	18		
4	9			33	4	58	2	4	0	18	23	6		
4	10			33	12	59	2	4	0	26	23	14		
4	11	34	6	60	2	4	1	6	24	2				
5	0	35	0	61	2	4	1	14	24	10				
5	1	35	9	62	3	4	1	23	24	19				
5	2	36	3	63	3	4	2	3	25	7				
5	6	3	3	23	7	41	1	2	3	21	16	9		
		3	4	24	1	42	1	3	0	1	16	17		
		3	5	24	9	43	1	3	0	9	17	5		
		3	6	25	4	44	2	3	0	18	17	14		
		3	7	25	12	45	2	3	0	26	18	2		
		3	8	26	7	46	3	3	1	7	18	11		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
5	6	3	9	27	1	47	3	3	1	15	18	19
		3	10	27	10	48	4	3	1	24	19	8
		3	11	28	4	49	4	3	2	4	19	16
		4	0	28	12	50	4	3	2	12	20	4
		4	1	29	7	51	5	3	2	21	20	13
		4	2	30	1	52	5	3	3	1	21	1
		4	3	30	10	53	6	3	3	10	21	10
		4	4	31	4	54	6	3	3	18	21	18
		4	5	31	13	55	7	3	3	27	22	7
		4	6	32	7	56	7	4	0	7	22	15
		4	7	33	1	57	7	4	0	15	23	3
		4	8	33	10	59	0	4	0	24	23	12
		4	9	34	4	60	0	4	1	4	24	0
		4	10	34	13	61	1	4	1	13	24	9
		4	11	35	7	62	1	4	1	21	24	17
		5	0	36	2	63	2	4	2	2	25	6
		5	1	36	10	64	2	4	2	10	25	14
		5	2	37	4	65	2	4	2	18	26	2
		5	3	37	13	66	3	4	2	27	26	11
5	7	3	4	24	11	43	3	3	0	11	17	7
		3	5	25	6	44	4	3	0	20	17	16
		3	6	26	1	45	5	3	1	1	18	5
		3	7	26	9	46	5	3	1	9	18	13
		3	8	27	4	47	6	3	1	18	19	2
		3	9	27	13	48	7	3	1	27	19	11
		3	10	28	7	49	7	3	2	7	19	19
		3	11	29	2	51	0	3	2	16	20	8
		4	0	29	11	52	1	3	2	25	20	17
		4	1	30	5	53	1	3	3	5	21	5
		4	2	31	0	54	2	3	3	14	21	14
		4	3	31	9	55	3	3	3	23	22	3
		4	4	32	4	56	4	4	0	4	22	12
		4	5	32	12	57	4	4	0	12	23	0
		4	6	33	7	58	5	4	0	21	23	9
		4	7	34	2	59	6	4	1	2	23	18
		4	8	34	10	60	6	4	1	10	24	6
		4	9	35	5	61	7	4	1	19	24	15
		4	10	36	0	63	0	4	2	0	25	4
		4	11	36	8	64	0	4	2	8	25	12
		5	0	37	3	65	1	4	2	17	26	1
		5	1	37	12	66	2	4	2	26	26	10
		5	2	38	6	67	2	4	3	6	26	18
		5	3	39	1	68	3	4	3	15	27	7
		5	4	39	10	69	4	4	3	24	27	16

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
5	8	3	4	25	8	44	6	3	0	22	17	18
		3	5	26	3	45	7	3	1	3	18	7
		3	6	26	12	46	8	3	1	12	18	16
		3	7	27	7	48	1	3	1	21	19	5
		3	8	28	2	49	2	3	2	2	19	14
		3	9	28	10	50	2	3	2	10	20	2
		3	10	29	5	51	3	3	2	19	20	11
		3	11	30	0	52	4	3	3	0	21	0
		4	0	30	9	53	5	3	3	9	21	9
		4	1	31	4	54	6	3	3	18	21	18
		4	2	31	13	55	7	3	3	27	22	7
		4	3	32	8	57	0	4	0	8	22	16
		4	4	33	3	58	1	4	0	17	23	5
		4	5	33	12	59	2	4	0	26	23	14
		4	6	34	7	60	3	4	1	7	24	3
		4	7	35	2	61	4	4	1	16	24	12
		4	8	35	11	62	5	4	1	25	25	1
		4	9	36	6	63	6	4	2	6	25	10
		4	10	37	1	64	7	4	2	15	25	19
		4	11	37	10	66	0	4	2	24	26	8
5	0	38	5	67	1	4	3	5	26	17		
5	1	39	0	68	2	4	3	14	27	6		
5	2	39	9	69	3	4	3	23	27	15		
5	3	40	3	70	3	5	0	3	28	3		
5	4	40	12	71	4	5	0	12	28	12		
5	5	41	7	72	5	5	0	21	29	1		
5	9	3	5	27	0	47	2	3	1	14	18	18
		3	6	27	9	48	3	3	1	23	19	7
		3	7	28	4	49	4	3	2	4	19	16
		3	8	28	13	50	5	3	2	13	20	5
		3	9	29	8	51	6	3	2	22	20	14
		3	10	30	4	53	0	3	3	4	21	4
		3	11	30	13	54	1	3	3	13	21	13
		4	0	31	8	55	2	3	3	22	22	2
		4	1	32	3	56	3	4	0	3	22	11
		4	2	32	12	57	4	4	0	12	23	0
		4	3	33	8	58	6	4	0	22	23	10
		4	4	34	3	59	7	4	1	3	23	19
		4	5	34	12	61	0	4	1	12	24	8
		4	6	35	7	62	1	4	1	21	24	17
		4	7	36	2	63	2	4	2	2	25	6
		4	8	36	12	64	4	4	2	12	25	16
		4	9	37	7	65	5	4	2	21	26	5
		4	10	38	2	66	6	4	3	2	26	14
		4	11	38	11	67	7	4	3	11	27	3

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
5	9	5	0	39	7	69	1	4	3	21	27	13
		5	1	40	3	70	2	5	0	2	28	2
		5	2	40	11	71	3	5	0	11	28	11
		5	3	41	6	72	4	5	0	20	29	0
		5	4	42	1	73	5	5	1	1	29	9
		5	5	42	11	74	7	5	1	11	29	19
		5	6	43	6	76	0	5	1	20	30	8
		5	10	3	6	28	6	49	6	3	2	6
		3	7	29	2	51	0	3	2	16	20	8
		3	8	29	11	52	1	3	2	25	20	17
		3	9	30	6	53	2	3	3	6	21	6
		3	10	31	2	54	4	3	3	16	21	16
		3	11	31	11	55	5	3	3	25	22	5
		4	0	32	7	56	7	4	0	7	22	15
		4	1	33	2	58	0	4	0	16	23	4
		4	2	33	12	59	2	4	0	26	23	14
		4	3	34	7	60	3	4	1	7	24	3
		4	4	35	3	61	5	4	1	17	24	13
		4	5	35	12	62	6	4	1	26	25	2
		4	6	36	8	64	0	4	2	8	25	12
		4	7	37	3	65	1	4	2	17	26	1
		4	8	37	13	66	3	4	2	27	26	11
		4	9	38	8	67	4	4	3	8	27	0
		4	10	39	4	68	6	4	3	18	27	10
		4	11	39	13	69	7	4	3	27	27	19
		5	0	40	9	71	1	5	0	9	28	9
		5	1	41	4	72	2	5	0	18	28	18
		5	2	42	0	73	4	5	1	0	29	8
		5	3	42	9	74	5	5	1	9	29	17
		5	4	43	5	75	7	5	1	19	30	7
		5	5	44	0	77	0	5	2	0	30	16
		5	6	44	10	78	2	5	2	10	31	6
		5	7	45	5	79	3	5	2	19	31	15
5	11	3	7	29	13	52	3	3	2	27	20	19
		3	8	30	9	53	5	3	3	9	21	9
		3	9	31	5	54	7	3	3	19	21	19
		3	10	32	1	56	1	4	0	1	22	9
		3	11	32	10	57	2	4	0	10	22	18
		4	0	33	6	58	4	4	0	20	23	8
		4	1	34	2	59	6	4	1	2	23	18
		4	2	34	12	61	0	4	1	12	24	8
		4	3	35	7	62	1	4	1	21	24	17
		4	4	36	3	63	3	4	2	3	25	7
		4	5	36	13	64	5	4	2	13	25	17

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
5	11	4	6	37	9	65	7	4	2	23	26	7		
		4	7	38	4	67	0	4	3	4	26	16		
		4	8	39	0	68	2	4	3	14	27	6		
		4	9	39	10	69	4	4	3	24	27	16		
		4	10	40	6	70	6	5	0	6	28	6		
		4	11	41	1	71	7	5	0	15	28	15		
		5	0	41	11	73	1	5	0	25	29	5		
		5	1	42	7	74	3	5	1	7	29	15		
		5	2	43	3	75	5	5	1	17	30	5		
		5	3	43	12	76	6	5	1	26	30	14		
		5	4	44	8	78	0	5	2	8	31	4		
		5	5	45	4	79	2	5	2	18	31	14		
		5	6	46	0	80	4	5	3	0	32	4		
		5	7	46	9	81	5	5	3	9	32	13		
		5	8	47	5	82	7	5	3	19	33	3		
		6	0	3	8	31	7	55	1	3	3	21	22	1
				3	9	32	3	56	3	4	0	3	22	11
3	10			32	13	57	5	4	0	13	23	1		
3	11			33	9	58	7	4	0	23	23	11		
4	0			34	5	60	1	4	1	5	24	1		
4	1			35	1	61	3	4	1	15	24	11		
4	2			35	11	62	5	4	1	25	25	1		
4	3			36	7	63	7	4	2	7	25	11		
4	4			37	3	65	1	4	2	17	26	1		
4	5			37	13	66	3	4	2	27	26	11		
4	6			38	9	67	5	4	3	9	27	1		
4	7			39	5	68	7	4	3	19	27	11		
4	8			40	2	70	2	5	0	2	28	2		
4	9			40	12	71	4	5	0	12	28	12		
4	10			41	8	72	6	5	0	22	29	2		
4	11			42	4	74	0	5	1	4	29	12		
5	0			43	0	75	2	5	1	14	30	2		
5	1			43	10	76	4	5	1	24	30	12		
5	2			44	6	77	6	5	2	6	31	2		
5	3			45	2	79	0	5	2	16	31	12		
5	4	45	12	80	2	5	2	26	32	2				
5	5	46	8	81	4	5	3	8	32	12				
5	6	47	4	82	6	5	3	18	33	2				
5	7	48	0	84	0	6	0	0	33	12				
5	8	48	10	85	2	6	0	10	34	2				
5	9	49	6	86	4	6	0	20	34	12				
6	1	3	9	33	2	58	0	4	0	16	23	4		
		3	10	33	12	59	2	4	0	26	23	14		
		3	11	34	8	60	4	4	1	8	24	4		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	1	4	0	35	5	61	7	4	1	19	24	15
		4	1	36	1	63	1	4	2	1	25	5
		4	2	36	11	64	3	4	2	11	25	15
		4	3	37	8	65	6	4	2	22	26	6
		4	4	38	4	67	0	4	3	4	26	16
		4	5	39	0	68	2	4	3	14	27	6
		4	6	39	11	69	5	4	3	25	27	17
		4	7	40	7	70	7	5	0	7	28	7
		4	8	41	3	72	1	5	0	17	28	17
		4	9	42	0	73	4	5	1	0	29	8
		4	10	42	10	74	6	5	1	10	29	18
		4	11	43	6	76	0	5	1	20	30	8
		5	0	44	2	77	2	5	2	2	30	18
		5	1	44	13	78	5	5	2	13	31	9
		5	2	45	9	79	7	5	2	23	31	19
		5	3	46	5	81	1	5	3	5	32	9
		5	4	47	2	82	4	5	3	16	33	0
		5	5	47	12	83	6	5	3	26	33	10
		5	6	48	8	85	0	6	0	8	34	0
		5	7	49	5	86	3	6	0	19	34	11
5	8	50	1	87	5	6	1	1	35	1		
5	9	50	11	88	7	6	1	11	35	11		
5	10	51	8	90	2	6	1	22	36	2		
6	2	3	10	34	11	60	7	4	1	11	24	7
		3	11	35	8	62	2	4	1	22	24	18
		4	0	36	4	63	4	4	2	4	25	8
		4	1	37	1	64	7	4	2	15	25	19
		4	2	37	12	66	2	4	2	26	26	10
		4	3	38	8	67	4	4	3	8	27	0
		4	4	39	5	68	7	4	3	19	27	11
		4	5	40	1	70	1	5	0	1	28	1
		4	6	40	12	71	4	5	0	12	28	12
		4	7	41	9	72	7	5	0	23	29	3
		4	8	42	5	74	1	5	1	5	29	13
		4	9	43	2	75	4	5	1	16	30	4
		4	10	43	12	76	6	5	1	26	30	14
		4	11	44	9	78	1	5	2	9	31	5
		5	0	45	6	79	4	5	2	20	31	16
		5	1	46	2	80	6	5	3	2	32	6
		5	2	46	13	82	1	5	3	13	32	17
		5	3	47	9	83	3	5	3	23	33	7
		5	4	48	6	84	6	6	0	6	33	18
		5	5	49	2	86	0	6	0	16	34	8
5	6	49	13	87	3	6	0	27	34	19		
5	7	50	10	88	6	6	1	10	35	10		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	2	5	8	51	6	90	0	6	1	20	36	0
		5	9	52	3	91	3	6	2	3	36	11
		5	10	52	13	92	5	6	2	13	37	1
		5	11	53	10	94	0	6	2	24	37	12
6	3	3	11	36	7	63	7	4	2	7	25	11
		4	0	37	4	65	2	4	2	18	26	2
		4	1	38	1	66	5	4	3	1	26	13
		4	2	38	12	68	0	4	3	12	27	4
		4	3	39	9	69	3	4	3	23	27	15
		4	4	40	6	70	6	5	0	6	28	6
		4	5	41	3	72	1	5	0	17	28	17
		4	6	42	0	73	4	5	1	0	29	8
		4	7	42	10	74	6	5	1	10	29	18
		4	8	43	7	76	1	5	1	21	30	9
		4	9	44	4	77	4	5	2	4	31	0
		4	10	45	1	78	7	5	2	15	31	11
		4	11	45	12	80	2	5	2	26	32	2
		5	0	46	9	81	5	5	3	9	32	13
		5	1	47	6	83	0	5	3	20	33	4
		5	2	48	3	84	3	6	0	3	33	15
		5	3	48	13	85	5	6	0	13	34	5
		5	4	49	10	87	0	6	0	24	34	16
		5	5	50	7	88	3	6	1	7	35	7
		5	6	51	4	89	6	6	1	18	35	18
5	7	52	1	91	1	6	2	1	36	9		
5	8	52	12	92	4	6	2	12	37	0		
5	9	53	9	93	7	6	2	23	37	11		
5	10	54	6	95	2	6	3	6	38	2		
5	11	55	2	96	4	6	3	16	38	12		
6	0	55	13	97	7	6	3	27	39	3		
6	4	4	0	38	4	67	0	4	3	4	26	16
		4	1	39	1	68	3	4	3	15	27	7
		4	2	39	13	69	7	4	3	27	27	19
		4	3	40	10	71	2	5	0	10	28	10
		4	4	41	7	72	5	5	0	21	29	1
		4	5	42	4	74	0	5	1	4	29	12
		4	6	43	1	75	3	5	1	15	30	3
		4	7	43	12	76	6	5	1	26	30	14
		4	8	44	10	78	2	5	2	10	31	6
		4	9	45	7	79	5	5	2	21	31	17
		4	10	46	4	81	0	5	3	4	32	8
		4	11	47	1	82	3	5	3	15	32	19
		5	0	47	12	83	6	5	3	26	33	10
		5	1	48	10	85	2	6	0	10	34	2

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	4	5	2	49	7	86	5	6	0	21	34	13
		5	3	50	4	88	0	6	1	4	35	4
		5	4	51	1	89	3	6	1	15	35	15
		5	5	51	12	90	6	6	1	26	36	6
		5	6	52	9	92	1	6	2	9	36	17
		5	7	53	7	93	5	6	2	21	37	9
		5	8	54	4	95	0	6	3	4	38	0
		5	9	55	1	96	3	6	3	15	38	11
		5	10	55	12	97	6	6	3	26	39	2
		5	11	56	9	99	1	7	0	9	39	13
		6	0	57	6	100	4	7	0	20	40	4
		6	1	58	4	102	0 ^t	7	1	4	40	16
		6	5	4	1	40	2	70	2	5	0	2
4	2			40	13	71	5	5	0	13	28	13
4	3			41	11	73	1	5	0	25	29	5
4	4			42	8	74	4	5	1	8	29	16
4	5			43	6	76	0	5	1	20	30	8
4	6			44	3	77	3	5	2	3	30	19
4	7			45	1	78	7	5	2	15	31	11
4	8			45	12	80	2	5	2	26	32	2
4	9			46	10	81	6	5	3	10	32	14
4	10			47	7	83	1	5	3	21	33	5
4	11			48	5	84	5	6	0	5	33	17
5	0			49	2	86	0	6	0	16	34	8
5	1			50	0	87	4	6	1	0	35	0
5	2			50	11	88	7	6	1	11	35	11
5	3			51	8	90	2	6	1	22	36	2
5	4			52	6	91	6	6	2	6	36	14
5	5			53	3	93	1	6	2	17	37	5
5	6			54	1	94	5	6	3	1	37	17
5	7			54	12	96	0	6	3	12	38	8
5	8			55	10	97	4	6	3	24	39	0
5	9	56	7	98	7	7	0	7	39	11		
5	10	57	5	100	3	7	0	19	40	3		
5	11	58	2	101	6	7	1	2	40	14		
6	0	59	0	103	2	7	1	14	41	6		
6	1	59	11	104	5	7	1	25	41	17		
6	2	60	9	106	1	7	2	9	42	9		
6	6	4	2	42	0	73	4	5	1	0	29	8
		4	3	42	12	75	0	5	1	12	30	0
		4	4	43	10	76	4	5	1	24	30	12
		4	5	44	8	78	0	5	2	8	31	4
		4	6	45	5	79	3	5	2	19	31	15
		4	7	46	3	80	7	5	3	3	32	7

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	6	4	8	47	1	82	3	5	3	15	32	19
		4	9	47	13	83	7	5	3	27	33	11
		4	10	48	11	85	3	6	0	11	34	3
		4	11	49	8	86	6	6	0	22	34	14
		5	0	50	6	88	2	6	1	6	35	6
		5	1	51	4	89	6	6	1	18	35	18
		5	2	52	2	91	2	6	2	2	36	10
		5	3	52	13	92	5	6	2	13	37	1
		5	4	53	11	94	1	6	2	25	37	13
		5	5	54	9	95	5	6	3	9	38	5
		5	6	55	7	97	1	6	3	21	38	17
		5	7	56	4	98	4	7	0	4	39	8
		5	8	57	2	100	0	7	0	16	40	0
		5	9	58	0	101	4	7	1	0	40	12
		5	10	58	12	103	0	7	1	12	41	4
		5	11	59	10	104	4	7	1	24	41	16
		6	7	6	0	60	7	105	7	7	2	7
6	1			61	5	107	3	7	2	19	42	19
6	2			62	3	108	7	7	3	3	43	11
6	3			63	1	110	3	7	3	15	44	3
4	3			44	0	77	0	5	2	0	30	16
4	4			44	12	78	4	5	2	12	31	8
4	5			45	10	80	0	5	2	24	32	0
4	6			46	8	81	4	5	3	8	32	12
4	7			47	6	83	0	5	3	20	33	4
4	8			48	4	84	4	6	0	4	33	16
4	9			49	2	86	0	6	0	16	34	8
4	10			50	0	87	4	6	1	0	35	0
4	11			50	12	89	0	6	1	12	35	12
5	0			51	10	90	4	6	1	24	36	4
5	1			52	8	92	0	6	2	8	36	16
5	2			53	6	93	4	6	2	20	37	8
5	3			54	5	95	1	6	3	5	38	1
5	4	55	3	96	5	6	3	17	38	13		
5	5	56	1	98	1	7	0	1	39	5		
5	6	56	13	99	5	7	0	13	39	17		
5	7	57	11	101	1	7	0	25	40	9		
5	8	58	9	102	5	7	1	9	41	1		
5	9	59	7	104	1	7	1	21	41	13		
5	10	60	5	105	5	7	2	5	42	5		
5	11	61	3	107	1	7	2	17	42	17		
6	0	62	1	108	5	7	3	1	43	9		
6	1	62	13	110	1	7	3	13	44	1		
6	2	63	11	111	5	7	3	25	44	13		
6	3	64	9	113	1	8	0	9	45	5		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	7	6	4	65	7	114	5	8	0	21	45	17
6	8	4	3	45	1	78	7	5	2	15	31	11
		4	4	46	0	80	4	5	3	0	32	4
		4	5	46	12	82	0	5	3	12	32	16
		4	6	47	10	83	4	5	3	24	33	8
		4	7	48	9	85	1	6	0	9	34	1
		4	8	49	7	86	5	6	0	21	34	13
		4	9	50	6	88	2	6	1	6	35	6
		4	10	51	4	89	6	6	1	18	35	18
		4	11	52	2	91	2	6	2	2	36	10
		5	0	53	1	92	7	6	2	15	37	3
		5	1	53	13	94	3	6	2	27	37	15
		5	2	54	12	96	0	6	3	12	38	8
		5	3	55	10	97	4	6	3	24	39	0
		5	4	56	8	99	0	7	0	8	39	12
		5	5	57	7	100	5	7	0	21	40	5
		5	6	58	5	102	1	7	1	5	40	17
		5	7	59	3	103	5	7	1	17	41	0
		5	8	60	2	105	2	7	2	2	42	2
		5	9	61	0	106	6	7	2	14	42	14
		5	10	61	13	108	3	7	2	27	43	7
5	11	62	11	109	7	7	3	11	43	19		
6	0	63	9	111	3	7	3	23	44	11		
6	1	64	8	113	0	8	0	8	45	4		
6	2	65	6	114	4	8	0	20	45	16		
6	3	66	4	116	0	8	1	4	46	8		
6	4	67	3	117	5	8	1	17	47	1		
6	9	4	4	47	2	82	4	5	3	16	33	0
		4	5	48	1	84	1	6	0	1	33	13
		4	6	48	13	85	5	6	0	13	34	5
		4	7	49	12	87	2	6	0	26	34	18
		4	8	50	11	88	7	6	1	11	35	11
		4	9	51	9	90	3	6	1	23	36	3
		4	10	52	8	92	0	6	2	8	36	16
		4	11	53	7	93	5	6	2	21	37	9
		5	0	54	5	95	1	6	3	5	38	1
		5	1	55	4	96	6	6	3	18	38	14
		5	2	56	3	98	3	7	0	3	39	7
		5	3	57	2	100	0	7	0	16	40	0
		5	4	58	0	101	4	7	1	0	40	12
		5	5	58	13	103	1	7	1	13	41	5
		5	6	59	12	104	6	7	1	26	41	18
		5	7	60	10	106	2	7	2	10	42	10
5	8	61	9	107	7	7	2	23	43	3		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	9	5	9	62	8	109	4	7	3	8	43	16
		5	10	63	6	111	0	7	3	20	44	8
		5	11	64	5	112	5	8	0	5	45	1
		6	0	65	4	114	2	8	0	18	45	14
		6	1	66	2	115	6	8	1	2	46	6
		6	2	67	1	117	3	8	1	15	46	19
		6	3	68	0	119	0	8	2	0	47	12
		6	4	68	12	120	4	8	2	12	48	4
		6	5	69	11	122	1	8	2	25	48	17
6	10	4	4	48	4	84	4	6	0	4	33	16
		4	5	49	3	86	1	6	0	17	34	9
		4	6	50	2	87	6	6	1	2	35	2
		4	7	51	1	89	3	6	1	15	35	15
		4	8	52	0	91	0	6	2	0	36	8
		4	9	52	13	92	5	6	2	13	37	1
		4	10	53	12	94	2	6	2	26	37	14
		4	11	54	11	95	7	6	3	11	38	7
		5	0	55	10	97	4	6	3	24	39	0
		5	1	56	9	99	1	7	0	9	39	13
		5	2	57	8	100	6	7	0	22	40	6
		5	3	58	7	102	3	7	1	7	40	19
		5	4	59	6	104	0	7	1	20	41	12
		5	5	60	5	105	5	7	2	5	42	5
		5	6	61	4	107	2	7	2	18	42	18
		5	7	62	3	108	7	7	3	3	43	11
		5	8	63	2	110	4	7	3	16	44	4
		5	9	64	1	112	1	8	0	1	44	17
		5	10	65	0	113	6	8	0	14	45	10
		5	11	65	13	115	3	8	0	27	46	3
6	0	66	12	117	0	8	1	12	46	16		
6	1	67	11	118	5	8	1	25	47	9		
6	2	68	10	120	2	8	2	10	48	2		
6	3	69	9	121	7	8	2	23	48	15		
6	4	70	8	123	4	8	3	8	49	8		
6	5	71	7	125	1	8	3	21	50	1		
6	11	4	5	50	6	88	2	6	1	6	35	6
		4	6	51	6	90	0	6	1	20	36	0
		4	7	52	5	91	5	6	2	5	36	13
		4	8	53	4	93	2	6	2	18	37	6
		4	9	54	4	95	0	6	3	4	38	0
		4	10	55	3	96	5	6	3	17	38	13
		4	11	56	2	98	2	7	0	2	39	6
		5	0	57	1	99	7	7	0	15	39	19
		5	1	58	1	101	5	7	1	1	40	13

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
6	11	5	2	59	0	103	2	7	1	14	41	6
		5	3	59	13	104	7	7	1	27	41	19
		5	4	60	13	106	5	7	2	13	42	13
		5	5	61	12	108	2	7	2	26	43	6
		5	6	62	11	109	7	7	3	11	43	19
		5	7	63	11	111	5	7	3	25	44	13
		5	8	64	10	113	2	8	0	10	45	6
		5	9	65	9	114	7	8	0	23	45	19
		5	10	66	9	116	5	8	1	9	46	13
		5	11	67	8	118	2	8	1	22	47	6
		6	0	68	7	119	7	8	2	7	47	19
		6	1	69	7	121	5	8	2	21	48	13
		6	2	70	6	123	2	8	3	6	49	6
		6	3	71	5	124	7	8	3	19	49	19
		6	4	72	5	126	5	9	0	5	50	13
		6	5	73	4	128	2	9	0	18	51	6
		6	6	74	3	129	7	9	1	3	51	19
7	0	4	5	51	9	90	3	6	1	23	36	3
		4	6	52	9	92	1	6	2	9	36	17
		4	7	53	9	93	7	6	2	23	37	11
		4	8	54	8	95	4	6	3	8	38	4
		4	9	55	8	97	2	6	3	22	38	18
		4	10	56	8	99	0	7	0	8	39	12
		4	11	57	7	100	5	7	0	21	40	5
		5	0	58	7	102	3	7	1	7	40	19
		5	1	59	7	104	1	7	1	21	41	13
		5	2	60	6	105	6	7	2	6	42	6
		5	3	61	6	107	4	7	2	20	43	0
		5	4	62	5	109	1	7	3	5	43	13
		5	5	63	5	110	7	7	3	19	44	7
		5	6	64	5	112	5	8	0	5	45	1
		5	7	65	4	114	2	8	0	18	45	14
		5	8	66	4	116	0	8	1	4	46	8
		5	9	67	4	117	6	8	1	18	47	2
		5	10	68	3	119	3	8	2	3	47	15
		5	11	69	3	121	1	8	2	17	48	9
		6	0	70	3	122	7	8	3	3	49	3
		6	1	71	2	124	4	8	3	16	49	16
6	2	72	2	126	2	9	0	2	50	10		
6	3	73	2	128	0	9	0	16	51	4		
6	4	74	1	129	5	9	1	1	51	17		
6	5	75	1	131	3	9	1	15	52	11		
6	6	76	1	133	1	9	2	1	53	5		
7	1	4	6	53	13	94	3	6	2	27	37	15

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
7	1	4	7	54	13	96	1	6	3	13	38	9
		4	8	55	13	97	7	6	3	27	39	3
		4	9	56	13	99	5	7	0	13	39	17
		4	10	57	13	101	3	7	0	27	40	11
		4	11	58	13	103	1	7	1	13	41	5
		5	0	59	12	104	6	7	1	26	41	18
		5	1	60	12	106	4	7	2	12	42	12
		5	2	61	12	108	2	7	2	26	43	6
		5	3	62	12	110	0	7	3	12	44	0
		5	4	63	12	111	6	7	3	26	44	14
		5	5	64	12	113	4	8	0	12	45	8
		5	6	65	12	115	2	8	0	26	46	2
		5	7	66	12	117	0	8	1	12	46	16
		5	8	67	12	118	6	8	1	26	47	10
		5	9	68	12	120	4	8	2	12	48	4
		5	10	69	12	122	2	8	2	26	48	18
		5	11	70	12	124	0	8	3	12	49	12
		6	0	71	12	125	6	8	3	26	50	6
		6	1	72	12	127	4	9	0	12	51	0
		6	2	73	12	129	2	9	0	26	51	14
		6	3	74	12	131	0	9	1	12	52	8
		6	4	75	12	132	6	9	1	26	53	2
		6	5	76	12	134	4	9	2	12	53	16
		6	6	77	12	136	2	9	2	26	54	10
		6	7	78	12	138	0	9	3	12	55	4
		7	2	4	6	55	3	96	5	6	3	17
4	7			56	3	98	3	7	0	3	39	7
4	8			57	3	100	1	7	0	17	40	1
4	9			58	3	101	7	7	1	3	40	15
4	10			59	4	103	6	7	1	18	41	10
4	11			60	4	105	4	7	2	4	42	4
5	0			61	4	107	2	7	2	18	42	18
5	1			62	5	109	1	7	3	5	43	13
5	2			63	5	110	7	7	3	19	44	7
5	3			64	5	112	5	8	0	5	45	1
5	4			65	6	114	4	8	0	20	45	16
5	5			66	6	116	2	8	1	6	46	10
5	6			67	6	118	0	8	1	20	47	4
5	7			68	6	119	6	8	2	6	47	18
5	8			69	7	121	5	8	2	21	48	13
5	9			70	7	123	3	8	3	7	49	7
5	10			71	7	125	1	8	3	21	50	1
5	11			72	8	127	0	9	0	8	50	16
6	0			73	8	128	6	9	0	22	51	10
6	1			74	8	130	4	9	1	8	52	4

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
7	2	6	2	75	9	132	3	9	1	23	52	19
		6	3	76	9	134	1	9	2	9	53	13
		6	4	77	9	135	7	9	2	23	54	7
		6	5	78	10	137	6	9	3	10	55	2
		6	6	79	10	139	4	9	3	24	55	16
		6	7	80	10	141	2	10	0	10	56	10
7	3	4	7	57	7	100	5	7	0	21	40	5
		4	8	58	8	102	4	7	1	8	41	0
		4	9	59	8	104	2	7	1	22	41	14
		4	10	60	9	106	1	7	2	9	42	9
		4	11	61	10	108	0	7	2	24	43	4
		5	0	62	10	109	6	7	3	10	43	18
		5	1	63	11	111	5	7	3	25	44	13
		5	2	64	12	113	4	8	0	12	45	8
		5	3	65	12	115	2	8	0	26	46	2
		5	4	66	13	117	1	8	1	13	46	17
		5	5	68	0	119	0	8	2	0	47	12
		5	6	69	0	120	6	8	2	14	48	6
		5	7	70	1	122	5	8	3	1	49	1
		5	8	71	1	124	4	8	3	15	49	15
		5	9	72	2	126	2	9	0	2	50	10
		5	10	73	3	128	1	9	0	17	51	5
		5	11	74	3	129	7	9	1	3	51	19
		6	0	75	4	131	6	9	1	18	52	14
		6	1	76	5	133	5	9	2	5	53	9
		6	2	77	5	135	3	9	2	19	54	3
		6	3	78	6	137	2	9	3	6	54	18
6	4	79	7	139	1	9	3	21	55	13		
6	5	80	7	140	7	10	0	7	56	7		
6	6	81	8	142	6	10	0	22	57	2		
6	7	82	9	144	5	10	1	9	57	17		
6	8	83	9	146	3	10	1	23	58	11		
7	4	4	7	58	12	103	0	7	1	12	41	4
		4	8	59	13	104	7	7	1	27	41	19
		4	9	61	0	106	6	7	2	14	42	14
		4	10	62	1	108	5	7	3	1	43	9
		4	11	63	2	110	4	7	3	16	44	4
		5	0	64	3	112	3	8	0	3	44	19
		5	1	65	4	114	2	8	0	18	45	14
		5	2	66	5	116	1	8	1	5	46	9
		5	3	67	6	118	0	8	1	20	47	4
		5	4	68	7	119	7	8	2	7	47	19
		5	5	69	8	121	6	8	2	22	48	14
		5	6	70	9	123	5	8	3	9	49	9

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
7	4	5	7	71	10	125	4	8	3	24	50	4		
		5	8	72	11	127	3	9	0	11	50	19		
		5	9	73	12	129	2	9	0	26	51	14		
		5	10	74	13	131	1	9	1	13	52	9		
		5	11	75	13	132	7	9	1	27	53	3		
		6	0	77	0	134	6	9	2	14	53	18		
		6	1	78	1	136	5	9	3	1	54	13		
		6	2	79	2	138	4	9	3	16	55	8		
		6	3	80	3	140	3	10	0	3	56	3		
		6	4	81	4	142	2	10	0	18	56	18		
		6	5	82	5	144	1	10	1	5	57	13		
		6	6	83	6	146	0	10	1	20	58	8		
		6	7	84	7	147	7	10	2	7	59	3		
		6	8	85	8	149	6	10	2	22	59	18		
		7	5	4	8	61	4	107	2	7	2	18	42	18
				4	9	62	5	109	1	7	3	5	43	13
4	10			63	7	111	1	7	3	21	44	9		
4	11			64	8	113	0	8	0	8	45	4		
5	0			65	9	114	7	8	0	23	45	19		
5	1			66	11	116	7	8	1	11	46	15		
5	2			67	12	118	6	8	1	26	47	10		
5	3			68	13	120	5	8	2	13	48	5		
5	4			70	1	122	5	8	3	1	49	1		
5	5			71	2	124	4	8	3	16	49	16		
5	6			72	3	126	3	9	0	3	50	11		
5	7			73	5	128	3	9	0	19	51	7		
5	8			74	6	130	2	9	1	6	52	2		
5	9			75	7	132	1	9	1	21	52	17		
5	10			76	8	134	0	9	2	8	53	12		
5	11			77	10	136	0	9	2	24	54	8		
6	0			78	11	137	7	9	3	11	55	3		
6	1			79	12	139	6	9	3	26	55	18		
6	2			81	0	141	6	10	0	14	56	14		
6	3			82	1	143	5	10	1	1	57	9		
6	4	83	2	145	4	10	1	16	58	4				
6	5	84	4	147	4	10	2	4	59	0				
6	6	85	5	149	3	10	2	19	59	15				
6	7	86	6	151	2	10	3	6	60	10				
6	8	87	8	153	2	10	3	22	61	6				
6	9	88	9	155	1	11	0	9	62	1				
7	6	4	8	62	9	109	5	7	3	9	43	17		
		4	9	63	11	111	5	7	3	25	44	13		
		4	10	64	13	113	5	8	0	13	45	9		
		4	11	66	0	115	4	8	1	0	46	4		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
7 6	5	0	67	2	117	4	8	1	16	47	0
	5	1	68	4	119	4	8	2	4	47	16
	5	2	69	5	121	3	8	2	19	48	11
	5	3	70	7	123	3	8	3	7	49	7
	5	4	71	9	125	3	8	3	23	50	3
	5	5	72	10	127	2	9	0	10	50	18
	5	6	73	12	129	2	9	0	26	51	14
	5	7	75	0	131	2	9	1	14	52	10
	5	8	76	1	133	1	9	2	1	53	5
	5	9	77	3	135	1	9	2	17	54	1
	5	10	78	5	137	1	9	3	5	54	17
	5	11	79	6	139	0	9	3	20	55	12
	6	0	80	8	141	0	10	0	8	56	8
	6	1	81	10	143	0	10	0	24	57	4
	6	2	82	11	144	7	10	1	11	57	19
	6	3	83	13	146	7	10	1	27	58	15
	6	4	85	1	148	7	10	2	15	59	11
	6	5	86	2	150	6	10	3	2	60	6
	6	6	87	4	152	6	10	3	18	61	2
	6	7	88	6	154	6	11	0	6	61	18
6	8	89	7	156	5	11	0	21	62	13	
6	9	90	9	158	5	11	1	9	63	9	
6	10	91	11	160	5	11	1	25	64	5	
7 7	4	9	65	3	114	1	8	0	17	45	13
	4	10	66	5	116	1	8	1	5	46	9
	4	11	67	7	118	1	8	1	21	47	5
	5	0	68	9	120	1	8	2	9	48	1
	5	1	69	11	122	1	8	2	25	48	17
	5	2	70	13	124	1	8	3	13	49	13
	5	3	72	1	126	1	9	0	1	50	9
	5	4	73	3	128	1	9	0	17	51	5
	5	5	74	5	130	1	9	1	5	52	1
	5	6	75	7	132	1	9	1	21	52	17
	5	7	76	9	134	1	9	2	9	53	13
	5	8	77	11	136	1	9	2	25	54	9
	5	9	78	13	138	1	9	3	13	55	5
	5	10	80	1	140	1	10	0	1	56	1
	5	11	81	3	142	1	10	0	17	56	17
	6	0	82	5	144	1	10	1	5	57	13
	6	1	83	7	146	1	10	1	21	58	9
	6	2	84	9	148	1	10	2	9	59	5
	6	3	85	11	150	1	10	2	25	60	1
	6	4	86	13	152	1	10	3	13	60	17
6	5	88	1	154	1	11	0	1	61	13	
6	6	89	3	156	1	11	0	17	62	9	

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Vt.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Ses.	Lbs.
7	7	6	7	90	5	158	1	11	1	5	63	5
		6	8	91	7	160	1	11	1	21	64	1
		6	9	92	9	162	1	11	2	9	64	17
		6	10	93	11	164	1	11	2	25	65	13
		6	11	94	13	166	1	11	3	13	66	9
7	8	4	9	66	9	116	5	8	1	9	46	13
		4	10	67	12	118	6	8	1	26	47	10
		4	11	69	0	120	6	8	2	14	48	6
		5	0	70	2	122	6	8	3	2	49	2
		5	1	71	5	124	7	8	3	19	49	19
		5	2	72	7	126	7	9	0	7	50	15
		5	3	73	9	128	7	9	0	23	51	11
		5	4	74	12	131	0	9	1	12	52	8
		5	5	76	0	133	0	9	2	0	53	4
		5	6	77	3	135	1	9	2	17	54	1
		5	7	78	5	137	1	9	3	5	54	17
		5	8	79	7	139	1	9	3	21	55	13
		5	9	80	10	141	2	10	0	10	56	10
		5	10	81	12	143	2	10	0	26	57	6
		5	11	83	0	145	2	10	1	14	58	2
		6	0	84	3	147	3	10	2	3	58	19
		6	1	85	5	149	3	10	2	19	59	15
		6	2	86	7	151	3	10	3	7	60	11
		6	3	87	10	153	4	10	3	24	61	8
		6	4	88	12	155	4	11	0	12	62	4
6	5	90	1	157	5	11	1	1	63	1		
6	6	91	3	159	5	11	1	17	63	17		
6	7	92	5	161	5	11	2	5	64	13		
6	8	93	8	163	6	11	2	22	65	10		
6	9	94	10	165	6	11	3	10	66	6		
6	10	95	12	167	6	11	3	26	67	2		
6	11	97	1	169	7	12	0	15	67	19		
7	0	98	3	171	7	12	1	3	68	15		
7	9	4	10	69	4	121	2	8	2	18	48	10
		4	11	70	7	123	3	8	3	7	49	7
		5	0	71	10	125	4	8	3	24	50	4
		5	1	72	12	127	4	9	0	12	51	0
		5	2	74	1	129	5	9	1	1	51	17
		5	3	75	4	131	6	9	1	18	52	14
		5	4	76	7	133	7	9	2	7	53	11
		5	5	77	9	135	7	9	2	23	54	7
		5	6	78	12	138	0	9	3	12	55	4
		5	7	80	1	140	1	10	0	1	56	1
		5	8	81	4	142	2	10	0	18	56	18

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
7	9	5	9	82	6	144	2	10	1	6	57	14
		5	10	83	9	146	3	10	1	23	58	11
		5	11	84	12	148	4	10	2	12	59	8
		6	0	86	1	150	5	10	3	1	60	5
		6	1	87	3	152	5	10	3	17	61	1
		6	2	88	6	154	6	11	0	6	61	18
		6	3	89	9	156	7	11	0	23	62	15
		6	4	90	11	158	7	11	1	11	63	11
		6	5	92	0	161	0	11	2	0	64	8
		6	6	93	3	163	1	11	2	17	65	5
		6	7	94	6	165	2	11	3	6	66	2
		6	8	95	8	167	2	11	3	22	66	18
		6	9	96	11	169	3	12	0	11	67	15
		6	10	98	0	171	4	12	1	0	68	12
		6	11	99	3	173	5	12	1	17	69	9
		7	0	100	5	175	5	12	2	5	70	5
		7	1	101	8	177	6	12	2	22	71	2
7	10	4	10	70	11	123	7	8	3	11	49	11
		4	11	72	0	126	0	9	0	0	50	8
		5	0	73	3	128	1	9	0	17	51	5
		5	1	74	7	130	3	9	1	7	52	3
		5	2	75	10	132	4	9	1	24	53	0
		5	3	76	13	134	5	9	2	13	53	17
		5	4	78	2	136	6	9	3	2	54	14
		5	5	79	5	138	7	9	3	19	55	11
		5	6	80	8	141	0	10	0	8	56	8
		5	7	81	11	143	1	10	0	25	57	5
		5	8	83	0	145	2	10	1	14	58	2
		5	9	84	3	147	3	10	2	3	58	19
		5	10	85	6	149	4	10	2	20	59	16
		5	11	86	9	151	5	10	3	9	60	13
		6	0	87	13	153	7	10	3	27	61	11
		6	1	89	2	156	0	11	0	16	62	8
		6	2	90	5	158	1	11	1	5	63	5
		6	3	91	8	160	2	11	1	22	64	2
		6	4	92	11	162	3	11	2	11	64	19
		6	5	94	0	164	4	11	3	0	65	16
		6	6	95	3	166	5	11	3	17	66	13
		6	7	96	6	168	6	12	0	6	67	10
		6	8	97	9	170	7	12	0	23	68	7
		6	9	98	12	173	0	12	1	12	69	4
		6	10	100	1	175	1	12	2	1	70	1
		6	11	101	5	177	3	12	2	19	70	19
		7	0	102	8	179	4	12	3	8	71	16
		7	1	103	11	181	5	12	3	25	72	13

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Pt.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Sts.	Lbs.
7	10	7	2	105	0	183	6	13	0	14	73	10
7	11	4	11	73	8	128	6	9	0	22	51	10
		5	0	74	11	130	7	9	1	11	52	7
		5	1	76	1	133	1	9	2	1	53	5
		5	2	77	4	135	2	9	2	18	54	2
		5	3	78	8	137	4	9	3	8	55	0
		5	4	79	11	139	5	9	3	25	55	17
		5	5	81	1	141	7	10	0	15	56	15
		5	6	82	4	144	0	10	1	4	57	12
		5	7	83	8	146	2	10	1	22	58	10
		5	8	84	11	148	3	10	2	11	59	7
		5	9	86	0	150	4	10	3	0	60	4
		5	10	87	4	152	6	10	3	18	61	2
		5	11	88	7	154	7	11	0	7	61	19
		3	0	89	11	157	1	11	0	25	62	17
		6	1	91	0	159	2	11	1	14	63	14
		6	2	92	4	161	4	11	2	4	64	12
		6	3	93	7	163	5	11	2	21	65	9
		6	4	94	11	165	7	11	3	11	66	7
		6	5	96	0	168	0	12	0	0	67	4
		6	6	97	4	170	2	12	0	18	68	2
		6	7	98	7	172	3	12	1	7	68	19
		6	8	99	11	174	5	12	1	25	69	17
		6	9	101	0	176	6	12	2	14	70	14
6	10	102	3	178	7	12	3	3	71	11		
6	11	103	7	181	1	12	3	21	72	9		
7	0	104	10	183	2	13	0	10	73	6		
7	1	106	0	185	4	13	1	0	74	4		
7	2	107	3	187	5	13	1	17	75	1		
7	3	108	7	189	7	13	2	7	75	19		
8	0	4	11	75	2	131	4	9	1	16	52	12
		5	0	76	6	133	6	9	2	6	53	10
		5	1	77	9	135	7	9	2	23	54	7
		5	2	78	13	138	1	9	3	13	55	5
		5	3	80	3	140	3	10	0	3	56	3
		5	4	81	7	142	5	10	0	21	57	1
		5	5	82	11	144	7	10	1	11	57	19
		5	6	84	1	147	1	10	2	1	58	17
		5	7	85	4	149	2	10	2	18	59	14
		5	8	86	8	151	4	10	3	8	60	12
		5	9	87	12	153	6	10	3	26	61	10
		5	10	89	2	156	0	11	0	16	62	8
		5	11	90	6	158	2	11	1	6	63	6
6	0	91	9	160	3	11	1	23	64	3		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
8	0	6	1	92	13	162	5	11	2	13	65	1
		6	2	94	3	164	7	11	3	3	65	19
		6	3	95	7	167	1	11	3	21	66	17
		6	4	96	11	169	3	12	0	11	67	15
		6	5	98	1	171	5	12	1	1	68	13
		6	6	99	4	173	6	12	1	18	69	10
		6	7	100	8	176	0	12	2	8	70	8
		6	8	101	12	178	2	12	2	26	71	6
		6	9	103	2	180	4	12	3	16	72	4
		6	10	104	6	182	6	13	0	6	73	2
		6	11	105	10	185	0	13	0	24	74	0
		7	0	106	13	187	1	13	1	13	74	17
		7	1	108	3	189	3	13	2	3	75	15
		7	2	109	7	191	5	13	2	21	76	13
		7	3	110	11	193	7	13	3	11	77	11
		7	4	112	1	196	1	14	0	1	78	9
		8	1	5	0	78	0	136	4	9	3	0
5	1			79	4	138	6	9	3	18	55	10
5	2			80	8	141	0	10	0	8	56	8
5	3			81	13	143	3	10	0	27	57	7
5	4			83	3	145	5	10	1	17	58	5
5	5			84	7	147	7	10	2	7	59	3
5	6			85	11	150	1	10	2	25	60	1
5	7			87	1	152	3	10	3	15	60	19
5	8			88	6	154	6	11	0	6	61	18
5	9			89	10	157	0	11	0	24	62	16
5	10			91	0	159	2	11	1	14	63	14
5	11			92	4	161	4	11	2	4	64	12
6	0			93	8	163	6	11	2	22	65	10
6	1			94	13	166	1	11	3	13	66	9
6	2			96	3	168	3	12	0	3	67	7
6	3			97	7	170	5	12	0	21	68	5
6	4			98	11	172	7	12	1	11	69	3
6	5			100	1	175	1	12	2	1	70	1
6	6			101	6	177	4	12	2	20	71	0
6	7			102	10	179	6	12	3	10	71	18
6	8			104	0	182	0	13	0	0	72	16
6	9			105	4	184	2	13	0	18	73	14
6	10			106	8	186	4	13	1	8	74	12
6	11			107	13	188	7	13	1	27	75	11
7	0			109	3	191	1	13	2	17	76	9
7	1			110	7	193	3	13	3	7	77	7
7	2			111	11	195	5	13	3	25	78	5
7	3	113	1	197	7	14	0	15	79	3		
7	4	114	6	200	2	14	1	6	80	2		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
8	1	7	5	115	10	202	4	14	1	24	81	0
8	2	5	0	79	9	139	3	9	3	23	55	15
		5	1	80	13	141	5	10	0	13	56	13
		5	2	82	4	144	0	10	1	4	57	12
		5	3	83	8	146	2	10	1	22	58	10
		5	4	84	13	148	5	10	2	13	59	9
		5	5	86	3	150	7	10	3	3	60	7
		5	6	87	8	153	2	10	3	22	61	6
		5	7	88	13	155	5	11	0	13	62	5
		5	8	90	3	157	7	11	1	3	63	3
		5	9	91	8	160	2	11	1	22	64	2
		5	10	92	12	162	4	11	2	12	65	0
		5	11	94	3	164	7	11	3	3	65	19
		6	0	95	8	167	2	11	3	22	66	18
		6	1	96	12	169	4	12	0	12	67	16
		6	2	98	3	171	7	12	1	3	68	15
		6	3	99	7	174	1	12	1	21	69	13
		6	4	100	12	176	4	12	2	12	70	12
		6	5	102	2	178	6	12	3	2	71	10
		6	6	103	7	181	1	12	3	21	72	9
		6	7	104	12	183	4	13	0	12	73	8
6	8	106	2	185	6	13	1	2	74	6		
6	9	107	7	188	1	13	1	21	75	5		
6	10	108	11	190	3	13	2	11	76	3		
6	11	110	2	192	6	13	3	2	77	2		
7	0	111	6	195	0	13	3	20	78	0		
7	1	112	11	197	3	14	0	11	78	19		
7	2	114	2	199	6	14	1	2	79	18		
7	3	115	6	202	0	14	1	20	80	16		
7	4	116	11	204	3	14	2	11	81	15		
7	5	118	1	206	5	14	3	1	82	13		
7	6	119	6	209	0	14	3	20	83	12		
8	3	5	1	82	8	144	4	10	1	8	57	16
		5	2	83	13	146	7	10	1	27	58	15
		5	3	85	4	149	2	10	2	18	59	14
		5	4	86	9	151	5	10	3	9	60	13
		5	5	88	0	154	0	11	0	0	61	12
		5	6	89	5	156	3	11	0	19	62	11
		5	7	90	10	158	6	11	1	10	63	10
		5	8	92	1	161	1	11	2	1	64	9
		5	9	93	6	163	4	11	2	20	65	8
		5	10	94	11	165	7	11	3	11	66	7
		5	11	96	2	168	2	12	0	2	67	6
		6	0	97	7	170	5	12	0	21	68	5

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Pt.	In.	Pt.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Sts.	Lbs.
8	3	6	1	98	12	173	0	12	1	12	69	4
		6	2	100	3	175	3	12	2	3	70	3
		6	3	101	8	177	6	12	2	22	71	2
		6	4	102	13	180	1	12	3	13	72	1
		6	5	104	4	182	4	13	0	4	73	0
		6	6	105	9	184	7	13	0	23	73	19
		6	7	107	0	187	2	13	1	14	74	18
		6	8	108	5	189	5	13	2	5	75	17
		6	9	109	10	192	0	13	2	24	76	16
		6	10	111	1	194	3	13	3	15	77	15
		6	11	112	6	196	5	14	0	6	78	14
		7	0	113	10	199	0	14	0	24	79	12
		7	1	115	1	201	3	14	1	15	80	11
		7	2	116	6	203	6	14	2	6	81	10
		7	3	117	11	206	1	14	2	25	82	9
		7	4	119	2	208	4	14	3	16	83	8
		7	5	120	7	210	7	15	0	7	84	7
		7	6	121	12	213	2	15	0	26	85	6
		7	7	123	3	215	5	15	1	17	86	5
8	4	5	1	84	4	147	4	10	2	4	59	0
		5	2	85	9	149	7	10	2	23	59	19
		5	3	87	1	152	3	10	3	15	60	19
		5	4	88	6	154	6	11	0	6	61	18
		5	5	89	11	157	1	11	0	25	62	17
		5	6	91	3	159	5	11	1	17	63	17
		5	7	92	8	162	0	11	2	8	64	16
		5	8	93	13	164	3	11	2	27	65	15
		5	9	95	5	166	7	11	3	19	66	15
		5	10	96	10	169	2	12	0	10	67	14
		5	11	98	1	171	5	12	1	1	68	13
		6	0	99	7	174	1	12	1	21	69	13
		6	1	100	12	176	4	12	2	12	70	12
		6	2	102	3	178	7	12	3	3	71	11
		6	3	103	9	181	3	12	3	23	72	11
		6	4	105	0	183	6	13	0	14	73	10
		6	5	106	5	186	1	13	1	5	74	9
		6	6	107	11	188	5	13	1	25	75	9
		6	7	109	2	191	0	13	2	16	76	8
		6	8	110	7	193	3	13	3	7	77	7
		6	9	111	13	195	7	13	3	27	78	7
		6	10	113	4	198	2	14	0	18	79	6
		6	11	114	9	200	5	14	1	9	80	5
		7	0	116	1	203	1	14	2	1	81	5
		7	1	117	6	205	4	14	2	20	82	4
		7	2	118	11	207	7	14	3	11	83	3

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Secs.	Lbs.
8	4	7	3	120	3	210	3	15	0	3	84	3
		7	4	121	8	212	6	15	0	22	85	2
		7	5	122	13	215	1	15	1	13	86	1
		7	6	124	5	217	5	15	2	5	87	1
		7	7	125	10	220	0	15	2	24	88	0
		7	8	127	1	222	3	15	3	15	88	19
8	5	5	2	87	0	152	7	10	3	19	61	3
		5	3	88	11	155	3	11	0	11	62	3
		5	4	90	3	157	7	11	1	3	63	3
		5	5	91	9	160	3	11	1	23	64	3
		5	6	93	0	162	6	11	2	14	65	2
		5	7	94	6	165	2	11	3	6	66	2
		5	8	95	12	167	6	11	3	26	67	2
		5	9	97	3	170	1	12	0	17	68	1
		5	10	98	9	172	5	12	1	9	69	1
		5	11	100	1	175	1	12	2	1	70	1
		6	0	101	7	177	5	12	2	21	71	1
		6	1	102	12	180	0	12	3	12	72	0
		6	2	104	4	182	4	13	0	4	73	0
		6	3	105	10	185	0	13	0	24	74	0
		6	4	107	2	187	4	13	1	16	75	0
		6	5	108	7	189	7	13	2	7	75	19
		6	6	109	13	192	3	13	2	27	76	19
		6	7	111	5	194	7	13	3	19	77	19
		6	8	112	10	197	2	14	0	10	78	18
		6	9	114	2	199	6	14	1	2	79	18
		6	10	115	8	202	2	14	1	22	80	18
		6	11	117	0	204	6	14	2	14	81	18
		7	0	118	5	207	1	14	3	5	82	17
		7	1	119	11	209	5	14	3	25	83	17
		7	2	121	3	212	1	15	0	17	84	17
		7	3	122	9	214	5	15	1	9	85	17
		7	4	124	0	217	0	15	2	0	86	16
7	5	125	6	219	4	15	2	20	87	16		
7	6	126	12	222	0	15	3	12	88	16		
7	7	128	4	224	4	16	0	4	89	16		
7	8	129	9	226	7	16	0	23	90	15		
7	9	131	1	229	3	16	1	15	91	15		
8	6	5	2	89	2	156	0	11	0	16	62	8
		5	3	90	8	158	4	11	1	8	63	8
		5	4	92	0	161	0	11	2	0	64	8
		5	5	93	6	163	4	11	2	20	65	8
		5	6	94	12	166	0	11	3	12	66	8
		5	7	96	4	168	4	12	0	4	67	8

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts	Qrs.	Lbs.	Ses.	Lbs.
8	6	5	8	97	10	171	0	12	0	24	68	8
		5	9	99	3	173	5	12	1	17	69	9
		5	10	100	9	176	1	12	2	9	70	9
		5	11	102	1	178	5	12	3	1	71	9
		6	0	103	7	181	1	12	3	21	72	9
		6	1	104	13	183	5	13	0	13	73	9
		6	2	106	5	186	1	13	1	5	74	9
		6	3	107	11	188	5	13	1	25	75	9
		6	4	109	3	191	1	13	2	17	76	9
		6	5	110	10	193	6	13	3	10	77	10
		6	6	112	2	196	2	14	0	2	78	10
		6	7	113	8	198	6	14	0	22	79	10
		6	8	115	0	201	2	14	1	14	80	10
		6	9	116	6	203	6	14	2	6	81	10
		6	10	117	12	206	2	14	2	26	82	10
		6	11	119	4	208	6	14	3	18	83	10
		7	0	120	10	211	2	15	0	10	84	10
		7	1	122	3	213	7	15	1	3	85	11
		7	2	123	9	216	3	15	1	23	86	11
		7	3	125	1	218	7	15	2	15	87	11
		7	4	126	7	221	3	15	3	7	88	11
		7	5	127	13	223	7	15	3	27	89	11
		7	6	129	5	226	3	16	0	19	90	11
		7	7	130	11	228	7	16	1	11	91	11
		7	8	132	3	231	3	16	2	3	92	11
		7	9	133	10	234	0	16	2	24	93	12
		7	10	135	2	236	4	16	3	16	94	12
8	7	5	3	92	5	161	5	11	2	5	64	13
		5	4	93	11	164	1	11	2	25	65	13
		5	5	95	4	166	6	11	3	18	66	14
		5	6	96	10	169	2	12	0	10	67	14
		5	7	98	3	171	7	12	1	3	68	15
		5	8	99	9	174	3	12	1	23	69	15
		5	9	101	2	177	0	12	2	16	70	16
		5	10	102	8	179	4	12	3	8	71	16
		5	11	104	1	182	1	13	0	1	72	17
		6	0	105	7	184	5	13	0	21	73	17
		6	1	107	0	187	2	13	1	14	74	18
		6	2	108	7	189	7	13	2	7	75	18
		6	3	109	13	192	3	13	2	27	76	19
		6	4	111	6	195	0	13	3	20	78	0
		6	5	112	12	197	4	14	0	12	79	0
		6	6	114	5	200	1	14	1	5	80	1
		6	7	115	11	202	5	14	1	25	81	1
		6	8	117	4	205	2	14	2	18	82	2

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Srs.	Lbs.
8	7	6	9	118	10	207	6	14	3	10	83	2
		6	10	120	3	210	3	15	0	3	84	3
		6	11	121	9	212	7	15	0	23	85	3
		7	0	123	2	215	4	15	1	16	86	4
		7	1	124	8	218	0	15	2	8	87	4
		7	2	126	1	220	5	15	3	1	88	5
		7	3	127	7	223	1	15	3	21	89	5
		7	4	129	0	225	6	16	0	14	90	6
		7	5	130	6	228	2	16	1	6	91	6
		7	6	131	13	230	7	16	1	27	92	7
		7	7	133	5	233	3	16	2	19	93	7
		7	8	134	12	236	0	16	3	12	94	8
		7	9	136	4	238	4	17	0	4	95	8
		7	10	137	11	241	1	17	0	25	96	9
		7	11	139	3	243	5	17	1	17	97	9
		8	8	5	3	94	2	164	6	11	3	2
5	4			95	9	167	3	11	3	23	66	19
5	5			97	2	170	0	12	0	16	68	0
5	6			98	9	172	5	12	1	9	69	1
5	7			100	2	175	2	12	2	2	70	2
5	8			101	9	177	7	12	2	23	71	3
5	9			103	2	180	4	12	3	16	72	4
5	10			104	8	183	0	13	0	8	73	4
5	11			106	1	185	5	13	1	1	74	5
6	0			107	8	188	2	13	1	22	75	6
6	1			109	1	190	7	13	2	15	76	7
6	2			110	8	193	4	13	3	8	77	8
6	3			112	1	196	1	14	0	1	78	9
6	4			113	8	198	6	14	0	22	79	10
6	5			115	1	201	3	14	1	15	80	11
6	6			116	8	204	0	14	2	8	81	12
6	7			118	1	206	5	14	3	1	82	13
6	8			119	8	209	2	14	3	22	83	14
6	9			121	1	211	7	15	0	15	84	15
6	10			122	7	214	3	15	1	7	85	15
6	11			124	0	217	0	15	2	0	86	16
7	0			125	7	219	5	15	2	21	87	17
7	1			127	0	222	2	15	3	14	88	18
7	2			128	7	224	7	16	0	7	89	19
7	3	130	0	227	4	16	1	0	91	0		
7	4	131	7	230	1	16	1	21	92	1		
7	5	133	0	232	6	16	2	14	93	2		
7	6	134	7	235	3	16	3	7	94	3		
7	7	136	0	238	0	17	0	0	95	4		
7	8	137	7	240	5	17	0	21	96	5		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
8	8	7	9	139	0	243	2	17	1	14	97	6
		7	10	140	7	245	7	17	2	7	98	7
		7	11	141	13	248	3	17	2	27	99	7
		8	0	143	6	251	0	17	3	20	100	8
8	9	5	4	97	7	170	5	12	0	21	68	5
		5	5	99	0	173	2	12	1	14	69	6
		5	6	100	7	175	7	12	2	7	70	7
		5	7	102	1	178	5	12	3	1	71	9
		5	8	103	8	181	2	12	3	22	72	10
		5	9	105	1	183	7	13	0	15	73	11
		5	10	106	9	186	5	13	1	9	74	13
		5	11	108	2	189	2	13	2	2	75	14
		6	0	109	9	191	7	13	2	23	76	15
		6	1	111	3	194	5	13	3	17	77	17
		6	2	112	10	197	2	14	0	10	78	18
		6	3	114	3	199	7	14	1	3	79	19
		6	4	115	11	202	5	14	1	25	81	1
		6	5	117	4	205	2	14	2	18	82	2
		6	6	118	11	207	7	14	3	11	83	3
		6	7	120	5	210	5	15	0	5	84	5
		6	8	121	12	213	2	15	0	26	85	6
		6	9	123	5	215	7	15	1	19	86	7
		6	10	124	13	218	5	15	2	13	87	9
		6	11	126	6	221	2	15	3	6	88	10
		7	0	127	13	223	7	15	3	27	89	11
		7	1	129	7	226	5	16	0	21	90	13
		7	2	131	0	229	2	16	1	14	91	14
		7	3	132	7	231	7	16	2	7	92	15
		7	4	134	1	234	5	16	3	1	93	17
		7	5	135	8	237	2	16	3	22	94	18
		7	6	137	1	239	7	17	0	15	95	19
		7	7	138	9	242	5	17	1	9	97	1
		7	8	140	2	245	2	17	2	2	98	2
		7	9	141	9	247	7	17	2	23	99	3
		7	10	143	3	250	5	17	3	17	100	5
		7	11	144	10	253	2	18	0	10	101	6
8	0	146	3	255	7	18	1	3	102	7		
8	1	147	11	258	5	18	1	25	103	9		
8	10	5	4	99	5	173	7	12	1	19	69	11
		5	5	100	13	176	5	12	2	13	70	13
		5	6	102	6	179	2	12	3	6	71	14
		5	7	104	0	182	0	13	0	0	72	16
		5	8	105	8	184	6	13	0	22	73	18
		5	9	107	2	187	4	13	1	16	75	0

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
8	10	5	10	108	9	190	1	13	2	9	76	1
		5	11	110	3	192	7	13	3	3	77	3
		6	0	111	11	195	5	13	3	25	78	5
		6	1	113	5	198	3	14	0	19	79	7
		6	2	114	12	201	0	14	1	12	80	8
		6	3	116	6	203	6	14	2	6	81	10
		6	4	118	0	206	4	14	3	0	82	12
		6	5	119	7	209	1	14	3	21	83	13
		6	6	121	1	211	7	15	0	15	84	15
		6	7	122	9	214	5	15	1	9	85	17
		6	8	124	3	217	3	15	2	3	86	19
		6	9	125	10	220	0	15	2	24	88	0
		6	10	127	4	222	6	15	3	18	89	2
		6	11	128	12	225	4	16	0	12	90	4
		7	0	130	6	228	2	16	1	6	91	6
		7	1	131	13	230	7	16	1	27	92	7
		7	2	133	7	233	5	16	2	21	93	9
		7	3	135	1	236	3	16	3	15	94	11
		7	4	136	9	239	1	17	0	9	95	13
		7	5	138	2	241	6	17	1	2	96	14
		7	6	139	10	244	4	17	1	24	97	16
		7	7	141	4	247	2	17	2	18	98	18
		7	8	142	11	249	7	17	3	11	99	19
		7	9	144	5	252	5	18	0	5	101	1
		7	10	145	13	255	3	18	0	27	102	3
		7	11	147	7	258	1	18	1	21	103	5
		8	0	149	0	260	6	18	2	14	104	6
		8	1	150	8	263	4	18	3	8	105	8
8	2	152	2	266	2	19	0	2	106	10		
8	11	5	5	102	11	179	7	12	3	11	71	19
		5	6	104	6	182	6	13	0	6	73	2
		5	7	106	0	185	4	13	1	0	74	4
		5	8	107	8	188	2	13	1	22	75	6
		5	9	109	2	191	0	13	2	16	76	8
		5	10	110	10	193	6	13	3	10	77	10
		5	11	112	4	196	4	14	0	4	78	12
		6	0	113	12	199	2	14	0	26	79	14
		6	1	115	7	202	1	14	1	21	80	17
		6	2	117	1	204	7	14	2	15	81	19
		6	3	118	9	207	5	14	3	9	83	1
		6	4	120	3	210	3	15	0	3	84	3
		6	5	121	11	213	1	15	0	25	85	5
		6	6	123	5	215	7	15	1	19	86	7
		6	7	124	13	218	5	15	2	13	87	9
		6	8	126	8	221	4	15	3	8	88	12

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
8	11	6	9	128	2	224	2	16	0	2	89	14
		6	10	129	10	227	0	16	0	24	90	16
		6	11	131	4	229	6	16	1	18	91	18
		7	0	132	12	232	4	16	2	12	93	0
		7	1	134	6	235	2	16	3	6	94	2
		7	2	136	0	238	0	17	0	1	95	5
		7	3	137	9	240	7	17	0	25	96	7
		7	4	139	3	243	5	17	1	17	97	9
		7	5	140	11	246	3	17	2	11	98	11
		7	6	142	5	249	1	17	3	5	99	13
		7	7	143	13	251	7	17	3	27	100	15
		7	8	145	7	254	5	18	0	21	101	17
		7	9	147	1	257	3	18	1	15	102	19
		7	10	148	10	260	2	18	2	10	104	2
		7	11	150	4	263	0	18	3	4	105	4
		8	0	151	12	265	6	18	3	26	106	6
		8	1	153	6	268	4	19	0	20	107	8
8	2	155	0	271	2	19	1	14	108	10		
8	3	156	8	274	0	19	2	8	109	12		
9	0	5	5	104	10	183	2	13	0	10	73	6
		5	6	106	5	186	1	13	1	5	74	9
		5	7	108	0	189	0	13	2	0	75	12
		5	8	109	8	191	6	13	2	22	76	14
		5	9	111	3	194	5	13	3	17	77	17
		5	10	112	11	197	3	14	0	11	78	19
		5	11	114	6	200	2	14	1	6	80	2
		6	0	116	0	203	0	14	2	0	81	4
		6	1	117	9	205	7	14	2	23	82	7
		6	2	119	4	208	6	14	3	18	83	10
		6	3	120	12	211	4	15	0	12	84	12
		6	4	122	7	214	3	15	1	7	85	15
		6	5	124	1	217	1	15	2	1	86	17
		6	6	125	10	220	0	15	2	24	88	0
		6	7	127	4	222	6	15	3	18	89	2
		6	8	128	13	225	5	16	0	13	90	5
		6	9	130	7	228	3	16	1	7	91	7
		6	10	132	2	231	2	16	2	2	92	10
		6	11	133	11	234	1	16	2	25	93	13
		7	0	135	5	236	7	16	3	19	94	15
		7	1	137	0	239	6	17	0	14	95	18
7	2	138	8	242	4	17	1	8	97	0		
7	3	140	3	245	3	17	2	3	98	3		
7	4	141	11	248	1	17	2	25	99	5		
7	5	143	6	251	0	17	3	20	100	8		
7	6	145	0	253	6	18	0	14	101	10		

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sta.	Lbs.	Sta.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
9	0	7	7	146	9	256	5	18	1	9	102	13
		7	8	148	4	259	4	18	2	4	103	16
		7	9	149	12	262	2	18	2	26	104	18
		7	10	151	7	265	1	18	3	21	106	1
		7	11	153	1	267	7	19	0	15	107	3
		8	0	154	10	270	6	19	1	10	108	6
		8	1	156	4	273	4	19	2	4	109	8
		8	2	157	13	276	3	19	2	27	110	11
		8	3	159	8	279	2	19	3	22	111	14
		8	4	161	2	282	0	20	0	16	112	16
9	1	5	5	106	10	186	6	13	1	10	74	14
		5	6	108	5	189	5	13	2	5	75	17
		5	7	110	0	192	4	13	3	0	77	0
		5	8	111	9	195	3	13	3	23	78	3
		5	9	113	4	198	2	14	0	18	79	6
		5	10	114	13	201	1	14	1	13	80	9
		5	11	116	8	204	0	14	2	8	81	12
		6	0	118	3	206	7	14	3	3	82	15
		6	1	119	12	209	6	14	3	26	83	18
		6	2	121	7	212	5	15	0	21	85	1
		6	3	123	2	215	4	15	1	16	86	4
		6	4	124	11	218	3	15	2	11	87	7
		6	5	126	6	221	2	15	3	6	88	10
		6	6	128	0	224	0	16	0	0	89	12
		6	7	129	9	226	7	16	0	23	90	5
		6	8	131	4	229	6	16	1	18	91	18
		6	9	132	13	232	5	16	2	13	93	1
		6	10	134	8	235	4	16	3	8	94	4
		6	11	136	3	238	3	17	0	3	95	7
		7	0	137	12	241	2	17	0	26	96	10
		7	1	139	7	244	1	17	1	21	97	13
		7	2	141	2	247	0	17	2	16	98	16
		7	3	142	11	249	7	17	3	11	99	19
		7	4	144	6	252	6	18	0	6	101	2
		7	5	146	1	255	5	18	1	1	102	5
		7	6	147	10	258	4	18	1	24	103	8
		7	7	149	5	261	3	18	2	19	104	11
		7	8	151	0	264	2	18	3	14	105	14
		7	9	152	9	267	1	19	0	9	106	17
		7	10	154	4	270	0	19	1	4	108	0
		7	11	155	13	272	7	19	1	27	109	3
		8	0	157	8	275	6	19	2	22	110	6
		8	1	159	3	278	5	19	3	17	111	9
		8	2	160	12	281	4	20	0	12	112	12
		8	3	162	7	284	3	20	1	7	113	15

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
9	1	8	4	164	2	287	2	20	2	2	114	18
9	2	5	5	108	9	190	1	13	2	9	76	1
		5	6	110	5	193	1	13	3	5	77	5
		5	7	112	0	196	0	14	0	0	78	8
		5	8	113	9	198	7	14	0	23	79	11
		5	9	115	5	201	7	14	1	19	80	15
		5	10	117	0	204	6	14	2	14	81	18
		5	11	118	10	207	6	14	3	10	83	2
		6	0	120	5	210	5	15	0	5	84	5
		6	1	122	1	213	5	15	1	1	85	9
		6	2	123	10	216	4	15	1	24	86	12
		6	3	125	5	219	3	15	2	19	87	15
		6	4	127	1	222	3	15	3	15	88	19
		6	5	128	10	225	2	16	0	10	90	2
		6	6	130	6	228	2	16	1	6	91	6
		6	7	132	1	231	1	16	2	1	92	9
		6	8	133	10	234	0	16	2	24	93	12
		6	9	135	6	237	0	16	3	20	94	16
		6	10	137	1	239	7	17	0	15	95	19
		6	11	138	11	242	7	17	1	11	97	3
		7	0	140	6	245	6	17	2	6	98	6
		7	1	142	1	248	5	17	3	1	99	9
		7	2	143	11	251	5	17	3	25	100	13
		7	3	145	6	254	4	18	0	20	101	16
		7	4	147	2	257	4	18	1	16	103	0
		7	5	148	11	260	3	18	2	11	104	3
		7	6	150	6	263	2	18	3	6	105	6
		7	7	152	2	266	2	19	0	2	106	10
		7	8	153	11	269	1	19	0	25	107	13
		7	9	155	7	272	1	19	1	21	108	17
		7	10	157	2	275	0	19	2	16	110	0
		7	11	158	11	277	7	19	3	11	111	3
		8	0	160	7	280	7	20	0	7	112	7
		8	1	162	2	283	6	20	1	2	113	10
		8	2	163	12	286	6	20	1	26	114	14
		8	3	165	7	289	5	20	2	21	115	17
		8	4	167	2	292	4	20	3	16	117	0
9	3	5	5	110	9	193	5	13	3	9	77	9
		5	6	112	5	196	5	14	0	5	78	13
		5	7	114	1	199	5	14	1	1	79	17
		5	8	115	11	202	5	14	1	25	81	1
		5	9	117	6	205	4	14	2	20	82	4
		5	10	119	2	208	4	14	3	16	83	8
		5	11	120	12	211	4	15	0	12	84	12

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Ses.	Lbs.		
9	3	6	0	122	8	214	4	15	1	8	85	16		
		6	1	124	4	217	4	15	2	4	87	0		
		6	2	126	0	220	4	15	3	0	88	4		
		6	3	127	9	223	3	15	3	23	89	7		
		6	4	129	5	226	3	16	0	19	90	11		
		6	5	131	1	229	3	16	1	15	91	15		
		6	6	132	11	232	3	16	2	11	92	19		
		6	7	134	7	235	3	16	3	7	94	3		
		6	8	136	3	238	3	17	0	3	95	7		
		6	9	137	12	241	2	17	0	26	96	10		
		6	10	139	8	244	2	17	1	22	97	14		
		6	11	141	4	247	2	17	2	18	98	18		
		7	0	143	0	250	2	17	3	14	100	2		
		7	1	144	10	253	2	18	0	10	101	6		
		7	2	146	6	256	2	18	1	6	102	10		
		7	3	148	1	259	1	18	2	1	103	13		
		7	4	149	11	262	1	18	2	25	104	17		
		7	5	151	7	265	1	18	3	21	106	1		
		7	6	153	3	268	1	19	0	17	107	5		
		7	7	154	13	271	1	19	1	13	108	9		
		7	8	156	9	274	1	19	2	9	109	13		
		7	9	158	4	277	0	19	3	4	110	16		
		7	10	160	0	280	0	20	0	0	112	0		
		7	11	161	10	283	0	20	0	24	113	4		
		8	0	163	6	286	0	20	1	20	114	8		
		8	1	165	2	289	0	20	2	16	115	12		
		8	2	166	12	292	0	20	3	12	116	16		
		8	3	168	7	294	7	21	0	7	117	19		
		8	4	170	3	297	7	21	1	3	119	3		
		9	4	5	5	112	9	197	1	14	0	9	78	17
				5	6	114	5	200	1	14	1	5	80	1
				5	7	116	2	203	2	14	2	2	81	6
5	8			117	12	206	2	14	2	26	82	10		
5	9			119	8	209	2	14	3	22	83	14		
5	10			121	4	212	2	15	0	18	84	18		
5	11			123	1	215	3	15	1	15	86	3		
6	0			124	11	218	3	15	2	11	87	7		
6	1			126	7	221	3	15	3	7	88	11		
6	2			128	3	224	3	16	0	3	89	15		
6	3			130	0	227	4	16	1	0	91	0		
6	4			131	10	230	4	16	1	24	92	4		
6	5			133	6	233	4	16	2	20	93	8		
6	6			135	3	236	5	16	3	17	94	13		
6	7			136	13	239	5	17	0	13	95	17		
6	8			138	9	242	5	17	1	9	97	1		

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.	Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.
9 4	6	9	140	5	245	5	17	2	5	98	5
	6	10	142	2	248	6	17	3	2	99	10
	6	11	143	12	251	6	17	3	26	100	14
	7	0	145	8	254	6	18	0	22	101	18
	7	1	147	4	257	6	18	1	18	103	2
	7	2	149	1	260	7	18	2	15	104	7
	7	3	150	11	263	7	18	3	11	105	11
	7	4	152	7	266	7	19	0	7	106	15
	7	5	154	3	269	7	19	1	3	107	19
	7	6	156	0	273	0	19	2	0	109	4
	7	7	157	10	276	0	19	2	24	110	8
	7	8	159	6	279	0	19	3	20	111	12
	7	9	161	2	282	0	20	0	16	112	16
	7	10	162	13	285	1	20	1	13	114	1
	7	11	164	9	288	1	20	2	9	115	5
	8	0	166	5	291	1	20	3	5	116	9
	8	1	168	2	294	2	21	0	2	117	14
	8	2	169	12	297	2	21	0	26	118	18
8	3	171	8	300	2	21	1	22	120	2	
8	4	173	4	303	2	21	2	18	121	6	
9 5	5	6	116	6	203	6	14	2	6	81	10
	5	7	118	3	206	7	14	3	3	82	15
	5	8	119	13	209	7	14	3	27	83	19
	5	9	121	10	213	0	15	0	24	85	4
	5	10	123	7	216	1	15	1	21	86	9
	5	11	125	4	219	2	15	2	18	87	14
	6	0	127	0	222	2	15	3	14	88	18
	6	1	128	11	225	3	16	0	11	90	3
	6	2	130	8	228	4	16	1	8	91	8
	6	3	132	4	231	4	16	2	4	92	12
	6	4	134	1	234	5	16	3	1	93	17
	6	5	135	12	237	6	16	3	26	95	2
	6	6	137	8	240	6	17	0	22	96	6
	6	7	139	5	243	7	17	1	19	97	11
	6	8	141	2	247	0	17	2	16	98	16
	6	9	142	13	250	1	17	3	13	100	1
	6	10	144	9	253	1	18	0	9	101	5
	6	11	146	6	256	2	18	1	6	102	10
	7	0	148	3	259	3	18	2	3	103	15
	7	1	149	13	262	3	18	2	27	104	19
7	2	151	10	265	4	18	3	24	106	4	
7	3	153	7	268	5	19	0	21	107	9	
7	4	155	3	271	5	19	1	17	108	13	
7	5	157	0	274	6	19	2	14	109	18	
7	6	158	11	277	7	19	3	11	111	3	

TABLE VI.—WEIGHT OF LIVE CATTLE BY MEASUREMENT.

Girth.		Length.		Imperial Stones.		Smithfield Stones.		Cwts.			Scores.			
Ft.	In.	Ft.	In.	Sts.	Lbs.	Sts.	Lbs.	Cwts.	Qrs.	Lbs.	Scs.	Lbs.		
9	5	7	7	160	8	281	0	20	0	8	112	8		
		7	8	162	4	284	0	20	1	4	113	12		
		7	9	164	1	287	1	20	2	1	114	17		
		7	10	165	12	290	2	20	2	26	116	2		
		7	11	167	8	293	2	20	3	22	117	6		
		8	0	169	5	296	3	21	0	19	118	11		
		8	1	171	2	299	4	21	1	16	119	16		
		8	2	172	12	302	4	21	2	12	121	0		
		8	3	174	9	305	5	21	3	9	122	5		
		8	4	176	6	308	6	22	0	6	123	10		
		9	6	5	6	118	7	207	3	14	3	7	82	19
				5	7	120	4	210	4	15	0	4	84	4
5	8			122	1	213	5	15	1	1	85	9		
5	9			123	12	216	6	15	1	26	86	14		
5	10			125	10	220	0	15	2	24	88	0		
5	11			127	7	223	1	15	3	21	89	5		
6	0			129	4	226	2	16	0	18	90	10		
6	1			131	1	229	3	16	1	15	91	15		
6	2			132	12	232	4	16	2	12	93	0		
6	3			134	9	235	5	16	3	9	94	5		
6	4			136	6	238	6	17	0	6	95	10		
6	5			138	4	242	0	17	1	4	96	16		
6	6			140	1	245	1	17	2	1	98	1		
6	7			141	12	248	2	17	2	26	99	6		
6	8			143	9	251	3	17	3	23	100	11		
6	9			145	6	254	4	18	0	20	101	16		
6	10			147	3	257	5	18	1	17	103	1		
6	11			149	0	260	6	18	2	14	104	6		
7	0			150	12	264	0	18	3	12	105	12		
7	1			152	9	267	1	19	0	9	106	17		
7	2			154	6	270	2	19	1	6	108	2		
7	3			156	3	273	3	19	2	3	109	7		
7	4			158	0	276	4	19	3	0	110	12		
7	5			159	11	279	5	19	3	25	111	17		
7	6			161	8	282	6	20	0	22	113	2		
7	7			163	5	285	7	20	1	19	114	7		
7	8			165	3	289	1	20	2	17	115	13		
7	9			167	0	292	2	20	3	14	116	18		
7	10			168	11	295	3	21	0	11	118	3		
7	11			170	8	298	4	21	1	8	119	8		
8	0			172	5	301	5	21	2	5	120	13		
8	1			174	2	304	6	21	3	2	121	18		
8	2	175	13	307	7	21	3	27	123	3				
8	3	177	11	311	1	22	0	25	124	9				
8	4	179	10	314	2	22	1	24	125	16				

TABLE VII.

SHOWS THE LIVE AND DEAD WEIGHT OF CATTLE IN IMPERIAL STONES OF 14 LBS., IN SMITHFIELD STONES OF 8 LBS., IN CWTs., AND IN SCORES, SINKING THE OFFALS.

In the left-hand column of the Table is placed the weight of the live animal in Imperial stones; and when killed, the weight of the four quarters is found opposite each live weight in Imperial stones, Smithfield stones, cwts., and scores.

EXAMPLE. The weight of a live ox has been ascertained to be 133 Imperial stones; how much will the four quarters weigh?

Having found the weight, 133 stones, in the left-hand column, opposite thereto stands 74 stones $11\frac{1}{2}$ lbs. Imperial, 130 stones $7\frac{1}{4}$ lbs. Smithfield, 9 cwt. 1 qr. $11\frac{1}{2}$ lbs., and 52 scores $7\frac{1}{2}$ lbs., the weight of the four quarters in each of these denominations.

If it were desired to know the weight in Glasgow Trone stones of $22\frac{1}{2}$ Imperial ounces to the pound, or $22\frac{1}{2}$ Imperial pounds to the stone, multiply the weight, found as above, by 14, and divide the product by $22\frac{1}{2}$, or, on account of the fraction, multiply by 28, and divide by 45.

$$\begin{array}{r}
 \text{Sta. Lbs.} \\
 74 \quad 11\frac{1}{2} \\
 \hline
 \quad 7 \times 4 = 28 \\
 \hline
 523 \quad 8\frac{3}{4} \\
 \quad 4 \\
 \hline
 45 \left\{ \begin{array}{l} 9 \overline{) 2094} \quad 7 \\ 5 \overline{) 232} \quad 11\frac{3}{4} \\ \hline
 46 \quad 8\frac{3}{4} \end{array} \right.
 \end{array}$$

Or, 46 stones $8\frac{3}{4}$ lbs. Glasgow Trone weight.

Or, if we turn to Table X., we there find that	Sta. Lbs.
twice 37, or 74 stones imperial	= 46 $0\frac{1}{2}$
And, as the Trone stone is $22\frac{1}{2}$ lbs., $11\frac{1}{2}$ lbs. is	
half a Trone stone,	= 0 8
	46 $8\frac{3}{4}$

Table VIII., showing the live and dead weight of swine, and Table IX., showing the live and dead weight of sheep, are so similar to this Table that they will require no explanation.

TABLE VII.—LIVE AND DEAD WEIGHT OF CATTLE.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
1	0	7 $\frac{3}{4}$	0	7 $\frac{3}{4}$	0	0	7 $\frac{3}{4}$	0	7 $\frac{3}{4}$
2	1	1 $\frac{1}{2}$	1	7 $\frac{1}{2}$	0	0	15 $\frac{1}{2}$	0	15 $\frac{1}{2}$
3	1	9 $\frac{1}{2}$	2	7 $\frac{1}{2}$	0	0	23 $\frac{1}{2}$	1	3 $\frac{1}{2}$
4	2	3 $\frac{1}{2}$	3	7 $\frac{1}{2}$	0	1	3 $\frac{1}{2}$	1	11 $\frac{1}{2}$
5	2	11 $\frac{1}{2}$	4	7 $\frac{1}{2}$	0	1	11 $\frac{1}{2}$	1	19 $\frac{1}{2}$
6	3	5 $\frac{1}{2}$	5	7 $\frac{1}{2}$	0	1	19 $\frac{1}{2}$	2	7 $\frac{1}{2}$
7	3	13 $\frac{1}{2}$	6	7	0	1	27 $\frac{1}{2}$	2	15 $\frac{1}{2}$
8	4	7	7	7	0	2	7	3	3
9	5	0 $\frac{3}{4}$	8	6 $\frac{3}{4}$	0	2	14 $\frac{3}{4}$	3	10 $\frac{3}{4}$
10	5	8 $\frac{1}{2}$	9	6 $\frac{1}{2}$	0	2	22 $\frac{1}{2}$	3	18 $\frac{1}{2}$
11	6	2 $\frac{1}{2}$	10	6 $\frac{1}{2}$	0	3	2 $\frac{1}{2}$	4	6 $\frac{1}{2}$
12	6	10 $\frac{1}{2}$	11	6 $\frac{1}{2}$	0	3	10 $\frac{1}{2}$	4	14 $\frac{1}{2}$
13	7	4 $\frac{1}{2}$	12	6 $\frac{1}{2}$	0	3	18 $\frac{1}{2}$	5	2 $\frac{1}{2}$
14	7	12 $\frac{1}{2}$	13	6 $\frac{1}{2}$	0	3	26 $\frac{1}{2}$	5	10 $\frac{1}{2}$
15	8	6 $\frac{1}{2}$	14	6	1	0	6	5	18
16	9	0	15	6	1	0	14	6	6
17	9	7 $\frac{1}{2}$	16	5 $\frac{1}{2}$	1	0	21 $\frac{1}{2}$	6	13 $\frac{1}{2}$
18	10	1 $\frac{1}{2}$	17	5 $\frac{1}{2}$	1	1	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$
19	10	9 $\frac{1}{2}$	18	5 $\frac{1}{2}$	1	1	9 $\frac{1}{2}$	7	9 $\frac{1}{2}$
20	11	3 $\frac{1}{2}$	19	5 $\frac{1}{2}$	1	1	17 $\frac{1}{2}$	7	17 $\frac{1}{2}$
21	11	11 $\frac{1}{2}$	20	5 $\frac{1}{2}$	1	1	25 $\frac{1}{2}$	8	5 $\frac{1}{2}$
22	12	5 $\frac{1}{2}$	21	5 $\frac{1}{2}$	1	2	5 $\frac{1}{2}$	8	13 $\frac{1}{2}$
23	12	13 $\frac{1}{2}$	22	5	1	2	13 $\frac{1}{2}$	9	1 $\frac{1}{2}$
24	13	7	23	5	1	2	21 $\frac{1}{2}$	9	9
25	14	0 $\frac{3}{4}$	24	4 $\frac{3}{4}$	1	3	0 $\frac{3}{4}$	9	16 $\frac{3}{4}$
26	14	8 $\frac{1}{2}$	25	4 $\frac{1}{2}$	1	3	8 $\frac{1}{2}$	10	4 $\frac{1}{2}$
27	15	2 $\frac{1}{2}$	26	4 $\frac{1}{2}$	1	3	16 $\frac{1}{2}$	10	12 $\frac{1}{2}$
28	15	10 $\frac{1}{2}$	27	4 $\frac{1}{2}$	1	3	24 $\frac{1}{2}$	11	0 $\frac{1}{2}$
29	16	4 $\frac{1}{2}$	28	4 $\frac{1}{2}$	2	0	4 $\frac{1}{2}$	11	8 $\frac{1}{2}$
30	16	12 $\frac{1}{2}$	29	4 $\frac{1}{2}$	2	0	12 $\frac{1}{2}$	11	16 $\frac{1}{2}$
31	17	6	30	4	2	0	20 $\frac{1}{2}$	12	4
32	18	0	31	4	2	1	0	12	12
33	18	7 $\frac{3}{4}$	32	3 $\frac{3}{4}$	2	1	7 $\frac{3}{4}$	12	19 $\frac{3}{4}$
34	19	1 $\frac{1}{2}$	33	3 $\frac{1}{2}$	2	1	15 $\frac{1}{2}$	13	7 $\frac{1}{2}$
35	19	9 $\frac{1}{2}$	34	3 $\frac{1}{2}$	2	1	23 $\frac{1}{2}$	13	15 $\frac{1}{2}$
36	20	3 $\frac{1}{2}$	35	3 $\frac{1}{2}$	2	2	3 $\frac{1}{2}$	14	3 $\frac{1}{2}$
37	20	11 $\frac{1}{2}$	36	3 $\frac{1}{2}$	2	2	11 $\frac{1}{2}$	14	11 $\frac{1}{2}$
38	21	5 $\frac{1}{2}$	37	3 $\frac{1}{2}$	2	2	19 $\frac{1}{2}$	14	19 $\frac{1}{2}$
39	21	13 $\frac{1}{2}$	38	3	2	2	27 $\frac{1}{2}$	15	7 $\frac{1}{2}$
40	22	7	39	3	2	3	7	15	15
41	23	0 $\frac{3}{4}$	40	2 $\frac{3}{4}$	2	3	14 $\frac{3}{4}$	16	2 $\frac{3}{4}$
42	23	8 $\frac{1}{2}$	41	2 $\frac{1}{2}$	2	3	22 $\frac{1}{2}$	16	10 $\frac{1}{2}$
43	24	2 $\frac{1}{2}$	42	2 $\frac{1}{2}$	3	0	2 $\frac{1}{2}$	16	18 $\frac{1}{2}$
44	24	10 $\frac{1}{2}$	43	2 $\frac{1}{2}$	3	0	10 $\frac{1}{2}$	17	6 $\frac{1}{2}$

TABLE VII.—LIVE AND DEAD WEIGHT OF CATTLE.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Stones.	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
45	25	4½	44	2½	3	0	18½	17	14½
46	25	12¼	45	2½	3	0	26¼	18	2½
47	26	6	46	2	3	1	6	18	10
48	27	0	47	2	3	1	14	18	18
49	27	7½	48	1½	3	1	21½	19	5½
50	28	1½	49	1½	3	2	1	19	13½
51	28	9½	50	1½	3	2	9½	20	1½
52	29	3½	51	1½	3	2	17½	20	9½
53	29	11½	52	1½	3	2	25½	20	17½
54	30	5½	53	1½	3	3	5½	21	5½
55	30	13	54	1	3	3	13	21	13
56	31	7	55	1	3	3	21	22	1
57	32	0½	56	0½	4	0	0½	22	8½
58	32	8½	57	0½	4	0	8	22	16½
59	33	2	58	0½	4	0	16½	23	4½
60	33	10½	59	0½	4	0	24½	23	12½
61	34	4½	60	0½	4	1	4½	24	0½
62	34	12½	61	0½	4	1	12½	24	8½
63	35	6	62	0	4	1	20	24	16
64	36	0	63	0	4	2	0	25	4
65	36	7½	63	7½	4	2	7½	25	11½
66	37	1½	64	7½	4	2	15	25	19½
67	37	9½	65	7½	4	2	23	26	7½
68	38	3	66	7½	4	3	3	26	15½
69	38	11½	67	7½	4	3	11½	27	3
70	39	5½	68	7½	4	3	19½	27	11½
71	39	13	69	7	4	3	27	27	19
72	40	7	70	7	5	0	7	28	7
73	41	0½	71	6½	5	0	14½	28	14½
74	41	8½	72	6½	5	0	22	29	2½
75	42	2½	73	6½	5	1	2½	29	10½
76	42	10½	74	6½	5	1	10½	29	18½
77	43	4½	75	6½	5	1	18½	30	6½
78	43	12½	76	6½	5	1	26½	30	14½
79	44	6	77	6	5	2	6	31	2
80	45	0	78	6	5	2	14	31	10
81	45	7½	79	5½	5	2	21½	31	17½
82	46	1½	80	5½	5	3	1	32	5½
83	46	9½	81	5½	5	3	9½	32	13½
84	47	3½	82	5½	5	3	17	33	1½
85	47	11½	83	5½	5	3	25	33	9½
86	48	5½	84	5½	6	0	5½	33	17½
87	48	13	85	5	6	0	13	34	5
88	49	7	86	5	6	0	21	34	13

TABLE VII.—LIVE AND DEAD WEIGHT OF CATTLE.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Stones.	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
89	50	0 $\frac{3}{4}$	87	4 $\frac{3}{4}$	6	1	0 $\frac{3}{4}$	35	0 $\frac{3}{4}$
90	50	8 $\frac{1}{2}$	88	4 $\frac{1}{2}$	6	1	8 $\frac{1}{2}$	35	8 $\frac{1}{2}$
91	51	2 $\frac{1}{2}$	89	4 $\frac{1}{2}$	6	1	16 $\frac{1}{2}$	35	16 $\frac{1}{2}$
92	51	10 $\frac{1}{2}$	90	4 $\frac{1}{2}$	6	1	24 $\frac{1}{2}$	36	4 $\frac{1}{2}$
93	52	4 $\frac{1}{2}$	91	4 $\frac{1}{2}$	6	2	4 $\frac{1}{2}$	36	12 $\frac{1}{2}$
94	52	12 $\frac{1}{2}$	92	4 $\frac{1}{2}$	6	2	12 $\frac{1}{2}$	37	0 $\frac{1}{2}$
95	53	6	93	4	6	2	20	37	8
96	54	0	94	4	6	3	0	37	16
97	54	7 $\frac{3}{4}$	95	3 $\frac{3}{4}$	6	3	7 $\frac{3}{4}$	8	3 $\frac{3}{4}$
98	55	1 $\frac{1}{2}$	96	3 $\frac{1}{2}$	6	3	15 $\frac{1}{2}$	38	11 $\frac{1}{2}$
99	55	9 $\frac{1}{2}$	97	3 $\frac{1}{2}$	6	3	23 $\frac{1}{2}$	38	19 $\frac{1}{2}$
100	56	3 $\frac{1}{2}$	98	3 $\frac{1}{2}$	7	0	3 $\frac{1}{2}$	39	7 $\frac{1}{2}$
101	56	11 $\frac{1}{2}$	99	3 $\frac{1}{2}$	7	0	11 $\frac{1}{2}$	39	15 $\frac{1}{2}$
102	57	5 $\frac{1}{2}$	100	3 $\frac{1}{2}$	7	0	19 $\frac{1}{2}$	40	3 $\frac{1}{2}$
103	57	13	101	3	7	0	27	40	11
104	58	7	102	3	7	1	7	40	19
105	59	0 $\frac{3}{4}$	103	2 $\frac{3}{4}$	7	1	14 $\frac{3}{4}$	41	6 $\frac{3}{4}$
106	59	8 $\frac{1}{2}$	104	2 $\frac{1}{2}$	7	1	22 $\frac{1}{2}$	41	14 $\frac{1}{2}$
107	60	2 $\frac{1}{2}$	105	2 $\frac{1}{2}$	7	2	2 $\frac{1}{2}$	42	2 $\frac{1}{2}$
108	60	10 $\frac{1}{2}$	106	2 $\frac{1}{2}$	7	2	10 $\frac{1}{2}$	42	10 $\frac{1}{2}$
109	61	4 $\frac{1}{2}$	107	2 $\frac{1}{2}$	7	2	18 $\frac{1}{2}$	42	18 $\frac{1}{2}$
110	61	12 $\frac{1}{2}$	108	2 $\frac{1}{2}$	7	2	26 $\frac{1}{2}$	43	6 $\frac{1}{2}$
111	62	6	109	2	7	3	6	43	14
112	63	0	110	2	7	3	14	44	2
113	63	7 $\frac{3}{4}$	111	1 $\frac{3}{4}$	7	3	21 $\frac{3}{4}$	44	9 $\frac{3}{4}$
114	64	1 $\frac{1}{2}$	112	1 $\frac{1}{2}$	8	0	1 $\frac{1}{2}$	44	17 $\frac{1}{2}$
115	64	9 $\frac{1}{2}$	113	1 $\frac{1}{2}$	8	0	9 $\frac{1}{2}$	45	5 $\frac{1}{2}$
116	65	3 $\frac{1}{2}$	114	1 $\frac{1}{2}$	8	0	17 $\frac{1}{2}$	45	13 $\frac{1}{2}$
117	65	11 $\frac{1}{2}$	115	1 $\frac{1}{2}$	8	0	25 $\frac{1}{2}$	46	1 $\frac{1}{2}$
118	66	5 $\frac{1}{2}$	116	1 $\frac{1}{2}$	8	1	5 $\frac{1}{2}$	46	9 $\frac{1}{2}$
119	66	13	117	1	8	1	13	46	17
120	67	7	118	1	8	1	21	47	5
121	68	0 $\frac{3}{4}$	119	0 $\frac{3}{4}$	8	2	0 $\frac{3}{4}$	47	12 $\frac{3}{4}$
122	68	8 $\frac{1}{2}$	120	0 $\frac{1}{2}$	8	2	8 $\frac{1}{2}$	48	0 $\frac{1}{2}$
123	69	2 $\frac{1}{2}$	121	0 $\frac{1}{2}$	8	2	16 $\frac{1}{2}$	48	8 $\frac{1}{2}$
124	69	10 $\frac{1}{2}$	122	0 $\frac{1}{2}$	8	2	24 $\frac{1}{2}$	48	16 $\frac{1}{2}$
125	70	4 $\frac{1}{2}$	123	0 $\frac{1}{2}$	8	3	4 $\frac{1}{2}$	49	4 $\frac{1}{2}$
126	70	12 $\frac{1}{2}$	124	0 $\frac{1}{2}$	8	3	12 $\frac{1}{2}$	49	12 $\frac{1}{2}$
127	71	6	125	0	8	3	20	50	0
128	72	0	126	0	9	0	0	50	8
129	72	7 $\frac{3}{4}$	126	7 $\frac{3}{4}$	9	0	7 $\frac{3}{4}$	50	15 $\frac{3}{4}$
130	73	1 $\frac{1}{2}$	127	7 $\frac{1}{2}$	9	0	15 $\frac{1}{2}$	51	3 $\frac{1}{2}$
131	73	9 $\frac{1}{2}$	128	7 $\frac{1}{2}$	9	0	23 $\frac{1}{2}$	51	11 $\frac{1}{2}$
132	74	3 $\frac{1}{2}$	129	7 $\frac{1}{2}$	9	1	3 $\frac{1}{2}$	51	19 $\frac{1}{2}$

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.		Scores.		
	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
133	74	11 $\frac{1}{2}$	130	7 $\frac{1}{2}$	9	1	11 $\frac{1}{2}$	52	7 $\frac{1}{2}$
134	75	5 $\frac{1}{2}$	131	7 $\frac{1}{2}$	9	1	19 $\frac{1}{2}$	52	15 $\frac{1}{2}$
135	75	13	132	7	9	1	27	53	3
136	76	7	133	7	9	2	7	53	11
137	77	0 $\frac{3}{4}$	134	6 $\frac{3}{4}$	9	2	14 $\frac{3}{4}$	53	18 $\frac{3}{4}$
138	77	8 $\frac{1}{2}$	135	6 $\frac{1}{2}$	9	2	22 $\frac{1}{2}$	54	6 $\frac{1}{2}$
139	78	2 $\frac{1}{2}$	136	6 $\frac{1}{2}$	9	3	2 $\frac{1}{2}$	54	14 $\frac{1}{2}$
140	78	10 $\frac{1}{2}$	137	6 $\frac{1}{2}$	9	3	10 $\frac{1}{2}$	55	2 $\frac{1}{2}$
141	79	4 $\frac{1}{2}$	138	6 $\frac{1}{2}$	9	3	18 $\frac{1}{2}$	55	10 $\frac{1}{2}$
142	79	12 $\frac{1}{2}$	139	6 $\frac{1}{2}$	9	3	26 $\frac{1}{2}$	55	18 $\frac{1}{2}$
143	80	6	140	6	10	0	6	56	6
144	81	0	141	6	10	0	14	56	14
145	81	7 $\frac{1}{2}$	142	5 $\frac{1}{2}$	10	0	21 $\frac{1}{2}$	57	1 $\frac{1}{2}$
146	82	1 $\frac{1}{2}$	143	5 $\frac{1}{2}$	10	1	1 $\frac{1}{2}$	57	9 $\frac{1}{2}$
147	82	9 $\frac{1}{2}$	144	5 $\frac{1}{2}$	10	1	9 $\frac{1}{2}$	57	17 $\frac{1}{2}$
148	83	3 $\frac{1}{2}$	145	5 $\frac{1}{2}$	10	1	17 $\frac{1}{2}$	58	5 $\frac{1}{2}$
149	83	11 $\frac{1}{2}$	146	5 $\frac{1}{2}$	10	1	24 $\frac{1}{2}$	58	13 $\frac{1}{2}$
150	84	5 $\frac{1}{2}$	147	5 $\frac{1}{2}$	10	2	5 $\frac{1}{2}$	59	1 $\frac{1}{2}$
151	84	13	148	5	10	2	13	59	9
152	85	7	149	5	10	2	21	59	17
153	86	0 $\frac{3}{4}$	150	4 $\frac{3}{4}$	10	3	0 $\frac{3}{4}$	60	4 $\frac{3}{4}$
154	86	8 $\frac{1}{2}$	151	4 $\frac{1}{2}$	10	3	8 $\frac{1}{2}$	60	12 $\frac{1}{2}$
155	87	2 $\frac{1}{2}$	152	4 $\frac{1}{2}$	10	3	16 $\frac{1}{2}$	61	0 $\frac{1}{2}$
156	87	10 $\frac{1}{2}$	153	4 $\frac{1}{2}$	10	3	24 $\frac{1}{2}$	61	8 $\frac{1}{2}$
157	88	4 $\frac{1}{2}$	154	4 $\frac{1}{2}$	11	0	4 $\frac{1}{2}$	61	16 $\frac{1}{2}$
158	88	12 $\frac{1}{2}$	155	4 $\frac{1}{2}$	11	0	12 $\frac{1}{2}$	62	4 $\frac{1}{2}$
159	89	6	156	4	11	0	20	62	12
160	90	0	157	4	11	1	0	63	0
161	90	7 $\frac{1}{2}$	158	3 $\frac{1}{2}$	11	1	7 $\frac{1}{2}$	63	7 $\frac{1}{2}$
162	91	1 $\frac{1}{2}$	159	3 $\frac{1}{2}$	11	1	15 $\frac{1}{2}$	63	15 $\frac{1}{2}$
163	91	9 $\frac{1}{2}$	160	3 $\frac{1}{2}$	11	1	23 $\frac{1}{2}$	64	3 $\frac{1}{2}$
164	92	3 $\frac{1}{2}$	161	3 $\frac{1}{2}$	11	2	3 $\frac{1}{2}$	64	11 $\frac{1}{2}$
165	92	11 $\frac{1}{2}$	162	3 $\frac{1}{2}$	11	2	11 $\frac{1}{2}$	64	19 $\frac{1}{2}$
166	93	5 $\frac{1}{2}$	163	3 $\frac{1}{2}$	11	2	19 $\frac{1}{2}$	65	7 $\frac{1}{2}$
167	93	13	164	3	11	2	27	65	15
168	94	7	165	3	11	3	7	66	3
169	95	0 $\frac{3}{4}$	166	2 $\frac{3}{4}$	11	3	14 $\frac{3}{4}$	66	10 $\frac{3}{4}$
170	95	8 $\frac{1}{2}$	167	2 $\frac{1}{2}$	11	3	22 $\frac{1}{2}$	66	18 $\frac{1}{2}$
171	96	2 $\frac{1}{2}$	168	2 $\frac{1}{2}$	12	0	2 $\frac{1}{2}$	67	6 $\frac{1}{2}$
172	96	10 $\frac{1}{2}$	169	2 $\frac{1}{2}$	12	0	10 $\frac{1}{2}$	67	14 $\frac{1}{2}$
173	97	4 $\frac{1}{2}$	170	2 $\frac{1}{2}$	12	0	18 $\frac{1}{2}$	68	2 $\frac{1}{2}$
174	97	12 $\frac{1}{2}$	171	2 $\frac{1}{2}$	12	0	26 $\frac{1}{2}$	68	10 $\frac{1}{2}$
175	98	6	172	2	12	1	6	68	18
176	99	0	173	2	12	1	14	69	6

TABLE VII.—LIVE AND DEAD WEIGHT OF CATTLE.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
177	99	7 $\frac{3}{4}$	174	12 $\frac{3}{4}$	12	1	21 $\frac{3}{4}$	69	13 $\frac{3}{4}$
178	100	13	175	13 $\frac{3}{4}$	12	2	1 $\frac{3}{4}$	70	1 $\frac{3}{4}$
179	100	9 $\frac{1}{2}$	176	13 $\frac{3}{4}$	12	2	9 $\frac{1}{2}$	70	9 $\frac{1}{2}$
180	101	3 $\frac{1}{2}$	177	13 $\frac{3}{4}$	12	2	17 $\frac{1}{2}$	70	17 $\frac{1}{2}$
181	101	11 $\frac{1}{2}$	178	13 $\frac{3}{4}$	12	2	25 $\frac{1}{2}$	71	5 $\frac{1}{2}$
182	102	5 $\frac{1}{2}$	179	13 $\frac{3}{4}$	12	3	5 $\frac{1}{2}$	71	13 $\frac{1}{2}$
183	102	13	180	1	12	3	13	72	1
184	103	7	181	1	12	3	21	72	9
185	104	0 $\frac{3}{4}$	182	0 $\frac{3}{4}$	13	0	0 $\frac{3}{4}$	72	16 $\frac{3}{4}$
186	104	8 $\frac{3}{4}$	183	0 $\frac{3}{4}$	13	0	8 $\frac{3}{4}$	73	4 $\frac{3}{4}$
187	105	2 $\frac{3}{4}$	184	0 $\frac{3}{4}$	13	0	16 $\frac{3}{4}$	73	12 $\frac{3}{4}$
188	105	10 $\frac{3}{4}$	185	0 $\frac{3}{4}$	13	0	24 $\frac{3}{4}$	74	0 $\frac{3}{4}$
189	106	4 $\frac{1}{2}$	186	0 $\frac{1}{2}$	13	1	4 $\frac{1}{2}$	74	8 $\frac{1}{2}$
190	106	12 $\frac{1}{2}$	187	0 $\frac{1}{2}$	13	1	12 $\frac{1}{2}$	74	16 $\frac{1}{2}$
191	107	6	188	0	13	1	20	75	4
192	108	0	189	0	13	2	0	75	12
193	108	7 $\frac{3}{4}$	189	7 $\frac{3}{4}$	13	2	7 $\frac{3}{4}$	75	19 $\frac{3}{4}$
194	109	1 $\frac{3}{4}$	190	7 $\frac{3}{4}$	13	2	15 $\frac{3}{4}$	76	7 $\frac{3}{4}$
195	109	9 $\frac{1}{2}$	191	7 $\frac{3}{4}$	13	2	23 $\frac{1}{2}$	76	15 $\frac{1}{2}$
196	110	3 $\frac{1}{2}$	192	7 $\frac{3}{4}$	13	3	3 $\frac{1}{2}$	77	3 $\frac{1}{2}$
197	110	11 $\frac{1}{2}$	193	7 $\frac{3}{4}$	13	3	11 $\frac{1}{2}$	77	11 $\frac{1}{2}$
198	111	5 $\frac{1}{2}$	194	7 $\frac{1}{4}$	13	3	19 $\frac{1}{4}$	77	19 $\frac{1}{4}$
199	111	13	195	7	13	3	27	78	7
200	112	7	196	7	14	0	7	78	15
201	113	0 $\frac{3}{4}$	197	6 $\frac{3}{4}$	14	0	14 $\frac{3}{4}$	79	2 $\frac{3}{4}$
202	113	8 $\frac{3}{4}$	198	6 $\frac{3}{4}$	14	0	22 $\frac{3}{4}$	79	10 $\frac{3}{4}$
203	114	2	199	6 $\frac{1}{2}$	14	1	2	79	18 $\frac{1}{2}$
204	114	10 $\frac{1}{2}$	200	6 $\frac{1}{2}$	14	1	10 $\frac{1}{2}$	80	6 $\frac{1}{2}$
205	115	4 $\frac{1}{2}$	201	6 $\frac{1}{2}$	14	1	18 $\frac{1}{2}$	80	14 $\frac{1}{2}$
206	115	12 $\frac{1}{2}$	202	6 $\frac{1}{2}$	14	1	26 $\frac{1}{2}$	81	2 $\frac{1}{2}$
207	116	6	203	6	14	2	6	81	10
208	117	0	204	6	14	2	14	81	18
209	117	7 $\frac{3}{4}$	205	5 $\frac{3}{4}$	14	2	21 $\frac{3}{4}$	82	5 $\frac{3}{4}$
210	118	1 $\frac{3}{4}$	206	5 $\frac{3}{4}$	14	3	1	82	13 $\frac{3}{4}$
211	118	9 $\frac{1}{2}$	207	5 $\frac{1}{2}$	14	3	9 $\frac{1}{2}$	83	1 $\frac{1}{2}$
212	119	3 $\frac{1}{2}$	208	5 $\frac{1}{2}$	14	3	17 $\frac{1}{2}$	83	9 $\frac{1}{2}$
213	119	11 $\frac{1}{2}$	209	5 $\frac{1}{2}$	14	3	25 $\frac{1}{2}$	83	17 $\frac{1}{2}$
214	120	5 $\frac{1}{2}$	210	5 $\frac{1}{2}$	15	0	5 $\frac{1}{2}$	84	5 $\frac{1}{2}$
215	120	13	211	5	15	0	13	84	13
216	121	7	212	5	15	0	21	85	1
217	122	0 $\frac{3}{4}$	213	4 $\frac{3}{4}$	15	1	0 $\frac{3}{4}$	85	8 $\frac{3}{4}$
218	122	8 $\frac{3}{4}$	214	4	15	1	8 $\frac{3}{4}$	85	16 $\frac{3}{4}$
219	123	2 $\frac{3}{4}$	215	4	15	1	16 $\frac{3}{4}$	86	4 $\frac{3}{4}$
220	123	10 $\frac{3}{4}$	216	4	15	1	24 $\frac{3}{4}$	86	12 $\frac{3}{4}$

TABLE VII.—LIVE AND DEAD WEIGHT OF CATTLE.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
221	124	4½	217	4½	15	2	4½	87	0½
222	124	12½	218	4½	15	2	12½	87	8½
223	125	6	219	4	15	2	20	87	16
224	126	0	220	4	15	3	0	88	4
225	126	7½	221	3½	15	3	7½	88	11½
226	127	1	222	3	15	3	15	88	19
227	127	9½	223	3	15	3	23½	89	7
228	128	3½	224	3	16	0	3	89	15
229	128	11½	225	3	16	0	11½	90	3½
230	129	5½	226	3	16	0	19½	90	11½
231	129	13	227	3	16	0	27	90	19
232	130	7	228	3	16	1	7	91	7
233	131	0½	229	2½	16	1	14½	91	14½
234	131	8	230	2	16	1	22	92	2
235	132	2	231	2	16	2	2	92	10½
236	132	10½	232	2	16	2	10½	92	18
237	133	4	233	2	16	2	18	93	6
238	133	12½	234	2	16	2	26½	93	14½
239	134	6	235	2	16	3	6	94	2
240	135	0	236	2	16	3	14	94	10
241	135	7½	237	1	16	3	21½	94	17½
242	136	1	238	1	17	0	1	95	5½
243	136	9	239	1	17	0	9	95	13
244	137	3	240	1	17	0	17	96	1
245	137	11	241	1	17	0	25	96	9
246	138	5½	242	1	17	1	5½	96	17½
247	138	13	243	1	17	1	13	97	5
248	139	7	244	1	17	1	21	97	13
249	140	0½	245	0½	17	2	0½	98	0½
250	140	8	246	0	17	2	8	98	8
251	141	2	247	0	17	2	16	98	16
252	141	10	248	0	17	2	24	99	4
253	142	4	249	0	17	3	4	99	12
254	142	12½	250	0	17	3	12½	100	0
255	143	6	251	0	17	3	20	100	8
256	144	0	252	0	18	0	0	100	16
257	144	7½	252	7	18	0	7½	101	3½
258	145	1	253	7	18	0	15	101	11
259	145	9	254	7	18	0	23	101	19
260	146	3	255	7	18	1	3	102	7
261	146	11½	256	7	18	1	11½	102	15
262	147	5½	257	7	18	1	19½	103	3
263	147	13	258	7	18	1	27	103	11
264	148	7	259	7	18	2	7	103	19

TABLE VIII.

SHOWS THE LIVE AND DEAD WEIGHT OF SWINE, IN IMPERIAL STONES OF 14 LBS., IN SMITHFIELD STONES OF 8 LBS., IN CWTS., AND IN SCORES, SINKING THE OFFALS.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
Stones.	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
1	0	10 $\frac{1}{2}$	1	2 $\frac{1}{2}$	0	0	10 $\frac{1}{2}$	0	10 $\frac{1}{2}$
1 $\frac{1}{2}$	1	1 $\frac{1}{2}$	1	7 $\frac{1}{2}$	0	0	15 $\frac{1}{2}$	0	15 $\frac{1}{2}$
2	1	7	2	5	0	0	21	1	1
2 $\frac{1}{2}$	1	12 $\frac{1}{4}$	3	2 $\frac{1}{4}$	0	0	26 $\frac{1}{4}$	1	6 $\frac{1}{4}$
3	2	3 $\frac{1}{2}$	3	7 $\frac{1}{2}$	0	1	3 $\frac{1}{2}$	1	11 $\frac{1}{2}$
3 $\frac{1}{2}$	2	8 $\frac{1}{4}$	4	4 $\frac{1}{4}$	0	1	8 $\frac{1}{4}$	1	16 $\frac{1}{4}$
4	3	0	5	2	0	1	14	2	2
4 $\frac{1}{2}$	3	5 $\frac{1}{4}$	5	7 $\frac{1}{4}$	0	1	19 $\frac{1}{4}$	2	7 $\frac{1}{4}$
5	3	10 $\frac{1}{2}$	6	4 $\frac{1}{2}$	0	1	24 $\frac{1}{2}$	2	12 $\frac{1}{2}$
5 $\frac{1}{2}$	4	1	7	1	0	2	1	2	17
6	4	7	7	7	0	2	7	3	3
6 $\frac{1}{2}$	4	12 $\frac{1}{4}$	8	4 $\frac{1}{4}$	0	2	12 $\frac{1}{4}$	3	8 $\frac{1}{4}$
7	5	3 $\frac{1}{2}$	9	1 $\frac{1}{2}$	0	2	17 $\frac{1}{2}$	3	13 $\frac{1}{2}$
7 $\frac{1}{2}$	5	8 $\frac{1}{2}$	9	6 $\frac{1}{2}$	0	2	22 $\frac{1}{2}$	3	18 $\frac{1}{2}$
8	6	0	10	4	0	3	0	4	4
8 $\frac{1}{2}$	6	5 $\frac{1}{4}$	11	1 $\frac{1}{4}$	0	3	5 $\frac{1}{4}$	4	9 $\frac{1}{4}$
9	6	10 $\frac{1}{2}$	11	6 $\frac{1}{2}$	0	3	10 $\frac{1}{2}$	4	14 $\frac{1}{2}$
9 $\frac{1}{2}$	7	1 $\frac{1}{2}$	12	3 $\frac{1}{2}$	0	3	15 $\frac{1}{2}$	4	19 $\frac{1}{2}$
10	7	7	13	1	0	3	21	5	5
10 $\frac{1}{2}$	7	12 $\frac{1}{4}$	13	6 $\frac{1}{4}$	0	3	26 $\frac{1}{4}$	5	10 $\frac{1}{4}$
11	8	3 $\frac{1}{2}$	14	3 $\frac{1}{2}$	1	0	3 $\frac{1}{2}$	5	15 $\frac{1}{2}$
11 $\frac{1}{2}$	8	8 $\frac{1}{2}$	15	0 $\frac{1}{2}$	1	0	8 $\frac{1}{2}$	6	0 $\frac{1}{2}$
12	9	0	15	6	1	0	14	6	6
12 $\frac{1}{2}$	9	5 $\frac{1}{4}$	16	3 $\frac{1}{4}$	1	0	19 $\frac{1}{4}$	6	11 $\frac{1}{4}$
13	9	10 $\frac{1}{2}$	17	0 $\frac{1}{2}$	1	0	24 $\frac{1}{2}$	6	16 $\frac{1}{2}$
13 $\frac{1}{2}$	10	1 $\frac{1}{2}$	17	5 $\frac{1}{2}$	1	1	1	7	1
14	10	7	18	3	1	1	7	7	7
14 $\frac{1}{2}$	10	12 $\frac{1}{4}$	19	0 $\frac{1}{4}$	1	1	12 $\frac{1}{4}$	7	12 $\frac{1}{4}$
15	11	3 $\frac{1}{2}$	19	5 $\frac{1}{2}$	1	1	17 $\frac{1}{2}$	7	17 $\frac{1}{2}$
15 $\frac{1}{2}$	11	8 $\frac{1}{4}$	20	2 $\frac{1}{4}$	1	1	22 $\frac{1}{4}$	8	2 $\frac{1}{4}$
16	12	0	21	0	1	2	0	8	8
16 $\frac{1}{2}$	12	5 $\frac{1}{4}$	21	5 $\frac{1}{4}$	1	2	5 $\frac{1}{4}$	8	13 $\frac{1}{4}$
17	12	10 $\frac{1}{2}$	22	2	1	2	10	8	18
17 $\frac{1}{2}$	13	1 $\frac{1}{2}$	22	7 $\frac{1}{2}$	1	2	15 $\frac{1}{2}$	9	3 $\frac{1}{2}$
18	13	7	23	5	1	2	21	9	9

LIVE WEIGHT	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.			Scores.	
	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
18½	13	12½	24	2½	1	2	26½	9	14½
19	14	3½	24	7½	1	3	3½	9	19½
19½	14	8½	25	4½	1	3	8½	10	4½
20	15	0	26	2	1	3	14	10	10
20½	15	5½	26	7½	1	3	19½	10	15½
21	15	10½	27	4½	1	3	24½	11	0½
21½	16	1	28	1½	2	0	1	11	5½
22	16	7	28	7	2	0	7	11	11
22½	16	12½	29	4½	2	0	12½	11	16½
23	17	3½	30	1½	2	0	17	12	1½
23½	17	8½	30	6½	2	0	22½	12	6½
24	18	0	31	4	2	1	0	12	12
24½	18	5½	32	1½	2	1	5½	12	17½
25	18	10½	32	6½	2	1	10½	13	2½
25½	19	1½	33	3½	2	1	15½	13	7½
26	19	7	34	1	2	1	21	13	13
26½	19	12½	34	6½	2	1	26½	13	18½
27	20	3½	35	3½	2	2	3½	14	3½
27½	20	8½	36	0½	2	2	8½	14	8½
28	21	0	36	6	2	2	14	14	14
28½	21	5½	37	3½	2	2	19½	14	19½
29	21	10½	38	0½	2	2	24½	15	4½
29½	22	1½	38	5½	2	3	1½	15	9½
30	22	7	39	3	2	3	7	15	15
30½	22	12½	40	0½	2	3	12½	16	0½
31	23	3	40	5½	2	3	17½	16	5½
31½	23	8½	41	2½	2	3	22½	16	10½
32	24	0	42	0	3	0	0	16	16
32½	24	5½	42	5½	3	0	5½	17	1½
33	24	10½	43	2½	3	0	10½	17	6½
33½	25	1½	43	7½	3	0	15½	17	11½
34	25	7	44	5	3	0	21	17	17
34½	25	12½	45	2½	3	0	26½	18	2½
35	26	3½	45	7½	3	1	3½	18	7½
35½	26	8½	46	4½	3	1	8½	18	12½
36	27	0	47	2	3	1	14	18	18
36½	27	5½	47	7½	3	1	19½	19	3½
37	27	10½	48	4½	3	1	24½	19	8½
37½	28	1½	49	1½	3	2	1	19	13½
38	28	7	49	7	3	2	7	19	19
38½	28	12½	50	4½	3	2	12½	20	4½
39	29	3½	51	1½	3	2	17	20	9½
39½	29	8½	51	6½	3	2	22½	20	14½
40	30	0	52	4	3	3	0	21	0

TABLE IX.

SHOWS THE LIVE AND DEAD WEIGHT OF SHEEP, IN IMPERIAL STONES OF 14 LBS., IN SMITHFIELD STONES OF 8 LBS., IN CWTs., AND IN SCORES, SINKING THE OFFALS.

LIVE WEIGHT.	WEIGHT OF THE FOUR QUARTERS.								
	Imperial Stones.		Smithfield Stones.		Cwts.		Scores.		
Stones.	Stones.	Lbs.	Stones.	Lbs.	Cwts.	Qrs.	Lbs.	Scores.	Lbs.
1	0	7	0	7	0	0	7	0	7
1½	0	10½	1	2½	0	0	10½	0	10½
2	1	0	1	6	0	0	14	0	14
2½	1	3½	2	1½	0	0	17½	0	17½
3	1	7	2	5	0	0	21	1	1
3½	1	10½	3	0½	0	0	24½	1	4½
4	2	0	3	4	0	1	0	1	8
4½	2	3½	3	7½	0	1	3½	1	11½
5	2	7	4	3	0	1	7	1	15
5½	2	10½	4	6½	0	1	10½	1	18½
6	3	0	5	2	0	1	14	2	2
6½	3	3½	5	5½	0	1	17½	2	5½
7	3	7	6	1	0	1	21	2	9
7½	3	10½	6	4½	0	1	24½	2	12½
8	4	0	7	0	0	2	0	2	16
8½	4	3½	7	3½	0	2	3½	2	19½
9	4	7	7	7	0	2	7	3	3
9½	4	10½	8	2½	0	2	10½	3	6½
10	5	0	8	6	0	2	14	3	10
10½	5	3½	9	1½	0	2	17½	3	13½
11	5	7	9	5	0	2	21	3	17
11½	5	10½	10	0½	0	2	24½	4	0½
12	6	0	10	4	0	3	0	4	4
12½	6	3½	10	7½	0	3	3½	4	7½
13	6	7	11	3	0	3	7	4	11
13½	6	10½	11	6½	0	3	10½	4	14½
14	7	0	12	2	0	3	14	4	18
14½	7	3½	12	5½	0	3	17½	5	1½
15	7	7	13	1	0	3	21	5	5
15½	7	10½	13	4½	0	3	24½	5	8½
16	8	0	14	0	1	0	0	5	12
16½	8	3½	14	3½	1	0	3½	5	15½
17	8	7	14	7	1	0	7	5	19
17½	8	10½	15	2½	1	0	10½	6	2½
18	9	0	15	6	1	0	14	6	6
18½	9	3½	16	1½	1	0	17½	6	9½
19	9	7	16	5	1	0	21	6	13
19½	9	10½	17	0½	1	0	24½	6	16½
20	10	0	17	4	1	1	0	7	0

TABLE X.

SHOWS THE RELATIVE OR EQUIVALENT WEIGHT OF IMPERIAL STONES OF 14 LBS., FROM 1 TO 100 STONES, IN SCOTCH TROYES OR DUTCH STONES OF $17\frac{1}{2}$ IMPERIAL LBS., IN EDINBURGH TRONE STONES OF 22 IMPERIAL LBS., IN GLASGOW TRONE STONES OF $22\frac{1}{2}$ IMPERIAL LBS., IN AyrSHIRE TRONE STONES OF 24 IMPERIAL LBS., IN SMITHFIELD OR LONDON STONES OF 8 IMPERIAL LBS., IN SCORES OR 20 IMPERIAL LBS., AND IN CWTS. OR 112 IMPERIAL LBS.

In the left-hand column of the Table are placed the Imperial stones, opposite which, in the other columns, under their respective headings, is found the relative or equivalent weight of the Imperial stones, in stones and pounds of the weights above named.

The Dutch and Trone stones are calculated at 16 of their own ounces to the pound, and 16 of these pounds to the stone, and the relative weight is set down to the nearest quarter of a pound, either over or under the exact result.

NOTE. See Remarks on these stones in the Table of Weights and Measures; and the relative weight of the Imperial pound, and several of these pounds, in Table XIV.

EXAMPLE. Required the weight in Glasgow Trone stones of an animal which weighs 78 Imperial stones?

In the Table, opposite 39, half of 78 Imperial stones, under "Glasgow stones," stands	Sts. Lbs.
Which multiply by	24 $4\frac{1}{2}$
	2
Glasgow Trone weight,	48 $8\frac{1}{2}$

If an equivalent for Imperial stones is wanted in Trone stones differing in weight from those in the Table, multiply the given number of Imperial stones by 14, and divide the product by the number of Imperial pounds in the required Trone stone, the quotient is the equivalent in stones of that weight; if there is a remainder, multiply it by 16, and divide by the former divisor, the quotient is pounds; if there is still a remainder, multiply by 16, and divide by the same divisor for ounces.

To find an equivalent for Imperial pounds, in Trone pounds, multiply the Imperial pounds by 16, and divide the product by the number of Imperial ounces in the given Trone pound, the quotient is pounds of that weight; if there is a remainder, multiply it by 16, and divide by the former divisor for ounces.

To find an equivalent for Trone stones in Imperial stones, multiply the given Trone stones by the number of Imperial pounds in its stone (which is always the same as the number of

Imperial ounces in its pound), and divide the product by 14, the quotient is the equivalent in Imperial stones; the remainder, if any, is Imperial pounds.

To find an equivalent for Trone pounds, in Imperial pounds, multiply the given Trone pounds by the number of the Imperial ounces in its pound, and divide the product by 16, the quotient is the equivalent in Imperial pounds; if there is a remainder, it is Imperial ounces.

EXAMPLES.

1. Required the equivalent of 15 Imperial stones, in Berwickshire Trone stones of 23 Imperial pounds?

Imp. Stones.	
15	
14	
60	
15	
23) 210 (9	2, or 9 stones $2\frac{2}{3}$
207	lbs. Berwickshire
3	Trone.
16	
48	
46	
2	
23	

2. Required the equivalent of $9\frac{1}{2}$ Edinburgh Trone stones, in Imperial stones?

Edin. Stones.	
$9\frac{1}{2}$	
22	
14) 209 (14	13, or 14 stones
14	13 lbs. Imperial.
69	
56	
13	

3. Required the equivalent of 13 Imperial pounds, in Glasgow Trone pounds?

On account of the fraction, multiply the ounces in the two pounds by 2 = 32 and 45.

Imp. Lbs.	
13	
32	
26	
39	
45) 416 (9	$3\frac{1}{2}$, or nearly $9\frac{1}{2}$
405	Glasgow lbs.
11	
16	
176	
185	
41	
45	

4. Required the equivalent of 15 Ayrshire pounds, in Imperial pounds?

Ayr. Lbs.	
15	
24	
60	
30	
16) 360 (22	$\frac{1}{2}$ Imperial pounds.
32	
40	
32	
8	
16 = $\frac{1}{2}$	

TABLE X.—EQUIVALENT WEIGHT OF IMPERIAL STONES, ETC. 113

Impl. Stone 14 Lbs.	Dutch Stone, 17½ Lbs.		Edinburgh Stone, 22 Lbs.		Glasgow Stone, 22½ Lbs.		Ayrshire Stone, 24 Lbs.		Smithfield Stone, 8 Lbs.		The Score, 20 Lbs.		The Cwt., 112 Lbs.		
	Sts.	Lbs.	Sta.	Lbs.	Scs.	Lbs.	Sta.	Lbs.	Sta.	Lbs.	Scs.	Lbs.	Cwt.	Qr. Lb.	
1	0	12	0	10	0	10	0	9	1	6	0	14	0	0	14
2	1	9	1	4	1	4	1	2	3	4	1	8	0	1	0
3	2	6	1	14	1	13	1	12	5	2	2	2	0	1	14
4	3	3	2	8	2	7	2	5	7	0	2	16	0	2	0
5	4	0	3	3	3	1	2	14	8	6	3	10	0	2	14
6	4	12	3	13	3	11	3	8	10	4	4	4	0	3	0
7	5	9	4	7	4	5	4	1	12	2	4	18	0	3	14
8	6	6	5	1	4	15	4	10	14	0	5	12	1	0	0
9	7	3	5	11	5	9	5	4	15	6	6	6	1	0	14
10	8	0	6	5	6	3	5	13	17	4	7	0	1	1	0
11	8	12	7	0	6	13	6	6	19	2	7	14	1	1	14
12	9	9	7	10	7	7	7	0	21	0	8	8	1	2	0
13	10	6	8	4	8	1	7	9	22	6	9	2	1	2	14
14	11	3	8	14	8	11	8	2	24	4	9	16	1	3	0
15	12	0	9	8	9	5	8	12	26	2	10	10	1	3	14
16	12	12	10	3	9	15	9	5	28	0	11	4	2	0	0
17	13	9	10	13	10	9	9	14	29	6	11	18	2	0	14
18	14	6	11	7	11	3	10	8	31	4	12	12	2	1	0
19	15	3	12	1	11	13	11	1	33	2	13	6	2	1	14
20	16	0	12	11	12	7	11	10	35	0	14	0	2	2	0
21	16	12	13	5	13	1	12	4	36	6	14	14	2	2	14
22	17	9	14	0	13	11	12	13	38	4	15	8	2	3	0
23	18	6	14	10	14	5	13	6	40	2	16	2	2	3	14
24	19	3	15	4	14	15	14	0	42	0	16	16	3	0	0
25	20	0	15	14	15	9	14	9	43	6	17	10	3	0	14
26	20	12	16	8	16	2	15	2	45	4	18	4	3	1	0
27	21	9	17	3	16	12	15	12	47	2	18	18	3	1	14
28	22	6	17	13	17	6	16	5	49	0	19	12	3	2	0
29	23	3	18	7	18	0	16	14	50	6	20	6	3	2	14
30	24	0	19	1	18	10	17	8	52	4	21	0	3	3	0
31	24	12	19	11	19	4	18	1	54	2	21	14	3	3	14
32	25	9	20	5	19	14	18	10	56	0	22	8	4	0	0
33	26	6	21	0	20	8	19	4	57	6	23	2	4	0	14
34	27	3	21	10	21	2	19	13	59	4	23	16	4	1	0
35	28	0	22	4	21	12	20	6	61	2	24	10	4	1	14
36	28	12	22	14	22	6	21	0	63	0	25	4	4	2	0
37	29	9	23	8	23	0	21	9	64	6	25	18	4	2	14
38	30	6	24	3	23	10	22	2	66	4	26	12	4	3	0
39	31	3	24	13	24	4	22	12	68	2	27	6	4	3	14
40	32	0	25	7	24	14	23	5	70	0	28	0	5	0	0
50	40	0	31	13	31	1	29	2	87	4	35	0	6	1	0
60	48	0	38	3	37	5	35	0	105	0	42	0	7	2	0
70	56	0	44	8	43	9	40	13	122	4	49	0	8	3	0
80	64	0	50	14	49	12	46	10	140	0	56	0	10	0	0
90	72	0	57	4	56	0	52	8	157	4	63	0	11	1	0
100	80	0	63	10	62	3	58	5	175	0	70	0	12	2	0

TABLE XI.

SHOWS THE RELATIVE OR EQUIVALENT PRICES FROM 1*s.* TO 12*s.* PER IMPERIAL STONE OF 14 LBS., IN SCOTCH TROYES OR DUTCH STONES OF 17½ IMPERIAL LBS., IN EDINBURGH TRONE STONES OF 22 IMPERIAL LBS., IN GLASGOW TRONE STONES OF 22½ IMPERIAL LBS., IN AYRSHIRE TRONE STONES OF 24 IMPERIAL LBS., IN LONDON OR SMITHFIELD STONES OF 8 IMPERIAL LBS., IN SCORES OF 20 IMPERIAL LBS., AND IN CWTs. OF 112 IMPERIAL LBS.

IN the left-hand column are placed the prices per Imperial stone; opposite which, in the other columns, under their respective headings, is found the relative or equivalent price of the other weights.

For example, if the Imperial stone is worth 5*s.* 3*d.*, the Dutch stone, at an equivalent rate, is worth 6*s.* 6½*d.*, the Edinburgh stone 8*s.* 3*d.*, the Glasgow stone 8*s.* 5½*d.*, the Ayrshire stone 9*s.*, the Smithfield stone 3*s.*, the score 7*s.* 6*d.*, and the cwt. 42*s.*

IN calculating the Table the equivalent price is set down to the nearest farthing over or under the exact result.

THE price of one weight is converted into an equivalent price in another, in the following manner:—

TO convert the price per Imperial stone into an equivalent price per Trone stone, multiply the given price per Imperial stone by the number of Imperial pounds in the given Trone stone, divide the product by 14; the number of pounds in the Imperial stone, and the quotient is the equivalent price sought.

TO convert the price per Imperial lb. into an equivalent price per Trone lb., multiply the given price per Imperial lb. by the number of Imperial ounces in the given Trone lb., divide the product by 16, the number of ounces in the Imperial lb., and the quotient is the equivalent price sought.

TO convert the price per Trone stone into an equivalent price per Imperial stone; multiply the given price per Trone stone by 14, the number of pounds in the Imperial stone, divide the product by the number of Imperial pounds in the Trone stone, the quotient is the equivalent price sought.

TO convert the price per Trone lb. into an equivalent price per Imperial lb., multiply the given price per Trone lb. by 16, the ounces in the Imperial lb., divide the product by the number of Imperial ounces in the given Trone pound, and the quotient is the equivalent price sought.

EXAMPLES.

1. At the rate of 8s. 9d. per Imperial stone, required the equivalent price per Trone stone of 26 Imperial lbs.?

Reduce the rate to pence = 105

	26
	<u>630</u>
	210
14)	2730 (195 pence = 16s. 3d. per stone.
	<u>14</u>
	133
	<u>126</u>
	70
	<u>70</u>

2. At the rate of 11s. 6d. per Ayrshire stone of 24 Imperial lbs., required the equivalent price per Imperial stone?

Reduce the rate to pence = 138

	24
	<u>552</u>
	138
24)	1932 (80½ pence = 6s. 8½d.
	<u>192</u>
	12
	<u>4</u>
	48
	<u>48</u>

3. At the rate of 5½d. per Imperial pound, required the equivalent price per Trone pound of 22 Imperial ounces?

	22
	<u>5½</u>
16)	121 (7½ pence and ½ of a farthing.
	<u>112</u>
	9
	<u>4</u>
	36
	<u>32</u>
	4
	<u>16</u> = ½

4. At the rate of 10d. per Trone pound of 22½ Imperial ounces, required the price per Imperial pound?

	10
	<u>32</u>
45)	320 (7 pence and nearly half a farthing.
	<u>315</u>
	5
	<u>4</u>
	20
	<u>45</u>

NOTE. See Table XIII. for the relative value of the Imperial pound, and the Dutch and Scotch Trone pounds; and Table XII. for the relative price per Imperial, Dutch, Scotch Trone, and Smithfield stones, the score, and the cwt., at certain rates per Imperial pound.

Impl. Stone.		Dutch Stone.		Edinburgh Tr. Stone.		Glasgow Stone.		Ayrshire Stone.		Smithfield Stone.		Scores.		Cwt.		
s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	£	s.	d.
1	0	1	3	1	6 ³ / ₄	1	7 ¹ / ₄	1	8 ¹ / ₂	0	6 ³ / ₄	1	5 ¹ / ₂	0	8	0
1	3	1	6 ³ / ₄	1	11 ³ / ₄	2	0	2	1 ¹ / ₂	0	8 ¹ / ₂	1	9	0	10	0
1	6	1	10 ¹ / ₄	2	4 ¹ / ₄	2	5	2	6	0	10 ¹ / ₄	2	1 ¹ / ₂	0	12	0
1	9	2	2 ¹ / ₄	2	9	2	9 ³ / ₄	3	0	1	0	2	6	0	14	0
2	0	2	6	3	1 ³ / ₄	3	2	3	5 ¹ / ₂	1	1 ³ / ₄	2	10 ¹ / ₄	0	16	0
2	3	2	9 ³ / ₄	3	6 ³ / ₄	3	7 ³ / ₄	3	10 ¹ / ₄	1	3 ³ / ₄	3	2	0	18	0
2	6	3	1 ¹ / ₄	3	11 ³ / ₄	4	0	4	3	1	5 ¹ / ₂	3	6	1	0	0
2	9	3	5	4	3	4	5	4	5	1	8 ¹ / ₂	3	11 ³ / ₄	1	2	0
3	0	3	9	4	4	4	8	4	9	1	1	4	3	1	4	0
3	3	4	0	5	1 ¹ / ₄	5	2	5	6	1	10 ¹ / ₄	4	7	1	6	0
3	6	4	4 ¹ / ₄	5	6	5	7 ³ / ₄	6	0	2	0	5	0	1	8	0
3	9	4	8 ¹ / ₄	5	10 ³ / ₄	6	0	6	5 ¹ / ₂	2	1 ³ / ₄	5	4 ¹ / ₂	1	10	0
4	0	5	0	6	3	6	5	6	10	2	3 ³ / ₄	5	8	1	12	0
4	3	5	3 ³ / ₄	6	8	6	10	7	3	2	5 ¹ / ₂	6	0	1	14	0
4	6	5	7 ³ / ₄	7	0	7	2	7	8	2	6 ³ / ₄	6	5	1	16	0
4	9	5	11 ³ / ₄	7	5 ³ / ₄	7	7 ³ / ₄	8	1	2	8 ¹ / ₂	6	9	1	18	0
5	0	6	3	7	10 ¹ / ₄	8	0	8	6	2	10 ¹ / ₄	7	1 ¹ / ₂	2	0	0
5	3	6	6 ³ / ₄	8	3	8	5	9	0	3	0	7	6	2	2	0
5	6	6	10 ³ / ₄	8	7 ³ / ₄	8	10	9	5 ¹ / ₂	3	1 ³ / ₄	7	10 ¹ / ₄	2	4	0
5	9	7	2 ¹ / ₄	9	0	9	3	9	10	3	3 ³ / ₄	8	2	2	6	0
6	0	7	6	9	5	9	7 ³ / ₄	10	3	3	5 ¹ / ₂	8	6	2	8	0
6	3	7	9 ³ / ₄	9	9	10	0	10	8	3	6 ³ / ₄	8	11 ³ / ₄	2	10	0
6	6	8	1 ³ / ₄	10	2 ³ / ₄	10	5	11	1	3	8 ¹ / ₂	9	3	2	12	0
6	9	8	5 ¹ / ₄	10	7 ³ / ₄	10	10	11	6	3	10 ¹ / ₄	9	7	2	14	0
7	0	8	9	11	0	11	3	12	0	4	0	10	0	2	16	0
7	3	9	0 ³ / ₄	11	4 ³ / ₄	11	7 ³ / ₄	12	5 ¹ / ₂	4	1 ³ / ₄	10	4 ¹ / ₂	2	18	0
7	6	9	4 ¹ / ₄	11	9 ³ / ₄	12	0	12	10	4	3 ³ / ₄	10	8	3	0	0
7	9	9	8 ¹ / ₄	12	2 ³ / ₄	12	5	13	3	4	5 ¹ / ₂	11	0	3	2	0
8	0	10	0	12	6 ³ / ₄	12	10	13	8	4	6 ³ / ₄	11	5	3	4	0
8	3	10	3 ³ / ₄	12	11 ³ / ₄	13	3	14	1	4	8 ¹ / ₂	11	9	3	6	0
8	6	10	7 ³ / ₄	13	4 ¹ / ₄	13	8	14	6	4	10 ¹ / ₄	12	1	3	8	0
8	9	10	11 ³ / ₄	13	9	14	0	15	0	5	0	12	6	3	10	0
9	0	11	3	14	1 ³ / ₄	14	5	15	5 ¹ / ₂	5	1 ³ / ₄	12	10 ¹ / ₄	3	12	0
9	3	11	6 ³ / ₄	14	6 ³ / ₄	14	10	15	10	5	3 ³ / ₄	13	2	3	14	0
9	6	11	10 ³ / ₄	14	11 ³ / ₄	15	3	16	3	5	5 ¹ / ₂	13	6	3	16	0
9	9	11	2 ¹ / ₄	15	3 ³ / ₄	15	8	16	8	5	6 ³ / ₄	13	11 ³ / ₄	3	18	0
10	0	12	6	15	8 ³ / ₄	16	0	17	1	5	8 ¹ / ₂	14	3	4	0	0
10	3	12	9 ³ / ₄	16	1 ¹ / ₄	16	5	17	6	5	10 ¹ / ₄	14	7	4	2	0
10	6	13	1 ³ / ₄	16	6	16	10	18	0	6	0	15	0	4	4	0
10	9	13	5 ¹ / ₄	16	10 ³ / ₄	17	3	18	5 ¹ / ₂	6	1 ³ / ₄	15	4 ¹ / ₂	4	6	0
11	0	13	9	17	3 ³ / ₄	17	8	18	10	6	3 ³ / ₄	15	8	4	8	0
11	3	14	0 ³ / ₄	17	8 ³ / ₄	18	1	19	3	6	5 ¹ / ₂	16	0	4	10	0
11	6	14	4 ¹ / ₄	18	0 ³ / ₄	18	5 ³ / ₄	19	8	6	6 ³ / ₄	16	5 ¹ / ₂	4	12	0
11	9	14	8 ¹ / ₄	18	5 ³ / ₄	18	10	20	1	6	8 ¹ / ₂	16	9	4	14	0
12	0	15	0	18	10 ³ / ₄	19	3	20	6	6	10 ¹ / ₄	17	1	4	16	0

TABLE XII.

SHOWS THE RELATIVE VALUE OR PRICE OF THE IMPERIAL, DUTCH, THE EDINBURGH, GLASGOW, AND AYRSHIRE TRONE, AND THE SMITHFIELD STONES, THE SCORE, AND THE CWT., AT RATES FROM $\frac{1}{4}d.$ TO 1*s.* PER IMPERIAL POUND.

THIS, and the two following Tables, are so simple that they require little explanation; we may, however, take an example from each, beginning with Table XII.

What is the value or price of 1 stone of each of the denominations in the Table, a score, and a cwt., at the rate of $4\frac{1}{2}d.$ per Imperial pound?

Opposite $4\frac{1}{2}d.$ in the left-hand column, under their respective headings, stands 5*s.* 3*d.* per Imperial stone, 6*s.* $6\frac{3}{4}d.$ per Dutch stone, 8*s.* 3*d.* per Edinburgh Trone stone, 8*s.* $5\frac{1}{2}d.$ per Glasgow Trone stone, 9*s.* per Ayrshire Trone stone, 3*s.* per Smithfield stone, 7*s.* 6*d.* per score, and £2, 2*s.* per cwt.

EXAMPLE FROM TABLE XIII

What is the value of 1 lb. of each denomination in the Table, at the rate of $5\frac{1}{2}d.$ per Imperial lb.?

Opposite $5\frac{1}{2}d.$, in the left-hand column, under their respective headings, stands 6*d.* per lb. Dutch, $7\frac{1}{2}d.$ per lb. Edinburgh Trone, $7\frac{3}{4}d.$ per lb. Glasgow Trone, and $8\frac{1}{2}d.$ per lb. Ayrshire Trone.

EXAMPLE FROM TABLE XIV.

Required the equivalent weight of 9 Imperial lbs. in each of the other denominations in the Table?

Opposite 9 lbs., in the left-hand column, under their respective headings, stands 8 lbs. $3\frac{3}{4}oz.$ Dutch, 6 lbs. $8\frac{3}{4}oz.$ Edinburgh Trone, 6 lbs. $6\frac{1}{2}oz.$ Glasgow Trone, and 6 lbs. Ayrshire Trone.

Tables XII. and XIII. are calculated to the nearest farthing; and Table XIV. to the nearest quarter of an ounce, either over or under.

118 TABLE XII.—RELATIVE PRICE OF IMP. AND TRONE-STONES, ETC.

Rate per L. Lb.	Imperial Stone.		Dutch Stone.		Elin. Tr. Stone.		Glasgow Tr. Stone.		Ayr. Trone Stone.		Smithfield Stone.		The Score.		The Cwt.		
s. d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	£	s.	d.
0 0	0	3½	0	4½	0	5½	0	5½	0	6	0	2	0	5	0	2	4
0 0	0	7	0	8½	0	11	0	11½	1	0	0	4	0	10	0	4	8
0 0	0	10½	1	1	1	4½	1	4½	1	6	0	6	1	3	0	7	0
1 1	1	2	1	5½	1	10	1	10½	2	0	0	8	1	8	0	9	4
1 1	1	5½	1	9	2	3½	2	4	2	6	0	10	2	1	0	11	8
1 1	1	9	2	2½	2	9	2	9	3	0	1	0	2	6	0	14	0
1 1	2	0½	2	6½	3	2½	3	3½	3	6	1	2	2	11	0	16	4
2 2	2	4	2	11	3	8	3	9	4	0	1	4	3	4	0	18	8
2 2	2	7½	3	3½	4	1½	4	2½	4	6	1	6	3	9	1	1	0
2 2	2	11	3	7	4	7	4	8	5	0	1	8	4	2	1	3	4
2 2	3	2½	4	0	5	0½	5	1	5	6	1	10	4	7	1	5	8
3 3	3	6	4	4½	5	6	5	7	6	0	2	0	5	0	1	8	0
3 3	3	9½	4	8	5	11½	6	1	6	6	2	2	5	5	1	10	4
3 3	4	1	5	1½	6	5	6	6	7	0	2	4	5	10	1	12	8
3 3	4	4½	5	5½	6	10½	7	0½	7	6	2	6	6	3	1	15	0
4 4	4	8	5	10	7	4	7	6	8	0	2	8	6	8	1	17	4
4 4	4	11½	6	2½	7	9½	7	11½	8	6	2	10	7	1	1	19	8
4 4	5	3	6	6	8	3	8	5	9	0	3	0	7	6	2	2	0
4 4	5	6½	6	11	8	8½	8	10	9	6	3	2	7	11	2	4	4
5 5	5	10	7	3½	9	2	9	4½	10	0	3	4	8	4	2	6	8
5 5	6	1½	7	7	9	7½	9	10	10	6	3	6	8	9	2	9	0
5 5	6	5	8	0½	10	1	10	3½	11	0	3	8	9	2	2	11	4
5 5	6	8½	8	4½	10	6½	10	9½	11	6	3	10	9	7	2	13	8
6 6	7	0	8	9	11	0	11	3	12	0	4	0	10	0	2	16	0
6 6	7	3½	9	1½	11	5½	11	8½	12	6	4	2	10	5	2	18	4
6 6	7	7	9	5	11	11	12	2	13	0	4	4	10	10	3	0	8
7 7	8	10½	9	10	12	4½	12	7	13	6	4	6	11	3	3	3	0
7 7	8	2	10	2½	12	10	13	1½	14	0	4	8	11	8	3	5	4
7 7	8	5½	10	6	13	3½	13	7	14	6	4	10	12	1	3	7	8
7 7	8	9	10	11	13	9	14	0½	15	0	5	0	12	6	3	10	0
7 7	9	0½	11	3½	14	2½	14	6½	15	6	5	2	12	11	3	12	4
8 8	9	4	11	8	14	8	15	0	16	0	5	4	13	4	3	14	8
8 8	9	7½	12	0½	15	1½	15	5½	16	6	5	6	13	9	3	17	0
8 8	9	11	12	4½	15	7	15	11½	17	0	5	8	14	2	3	19	4
8 8	10	2½	12	9	16	0½	16	4½	17	6	5	10	14	7	4	1	8
9 9	10	6	13	1½	16	6	16	10½	18	0	6	0	15	0	4	4	0
9 9	10	9½	13	5½	16	11½	17	4	18	6	6	2	15	5	4	6	4
9 9	11	1	13	10	17	5	17	9	19	0	6	4	15	10	4	8	8
9 9	11	4½	14	2½	17	10½	18	3½	19	6	6	6	16	3	4	11	0
10 10	11	8	14	7	18	4	18	9	20	0	6	8	16	8	4	13	4
10 10	11	11½	14	11½	18	9½	19	2½	20	6	6	10	17	1	4	15	8
10 10	12	3	15	3½	19	3	19	8	21	0	7	0	17	6	4	18	0
10 10	12	6½	15	8	19	8½	20	1	21	6	7	2	17	11	5	0	4
11 11	12	10	16	0½	20	2	20	7	22	0	7	4	18	4	5	2	8
11 11	13	5	16	9	21	1	21	6	23	0	7	8	19	2	5	7	4
12 12	14	0	17	6	22	0	22	6	24	0	0	0	20	0	5	12	0

TABLE XIII.

SHOWS THE RELATIVE VALUE OR PRICE OF THE IMPERIAL, DUTCH, AND EDINBURGH, GLASGOW, AND AYRSHIRE TRONE POUNDS, FROM $\frac{1}{2}d.$ TO 1s. PER IMPERIAL POUND.

Impl. Lbs.	Dutch Lbs.		Edin. Tr. Lbs.		Glasgow Tr. Lbs.		Ayr. Tr. Lbs.		Impl. Lbs.	Dutch Lbs.		Edin. Tr. Lbs.		Glasgow Tr. Lbs.		Ayr. Tr. Lbs.	
	s.	d.	s.	d.	s.	d.	s.	d.	d.	s.	d.	s.	d.	s.	d.	s.	d.
0 $\frac{1}{2}$	0	0 $\frac{1}{2}$	0	0 $\frac{1}{2}$	0	0 $\frac{1}{2}$	0	0 $\frac{1}{2}$	6 $\frac{1}{2}$	0	7	0	9	0	9 $\frac{1}{2}$	0	9 $\frac{1}{2}$
1	0	1	0	1 $\frac{1}{2}$	0	1 $\frac{1}{2}$	0	1 $\frac{1}{2}$	7	0	7 $\frac{1}{2}$	0	9 $\frac{1}{2}$	0	9 $\frac{1}{2}$	0	10 $\frac{1}{2}$
1 $\frac{1}{2}$	0	1 $\frac{1}{2}$	0	2	0	2	0	2 $\frac{1}{2}$	7 $\frac{1}{2}$	0	8 $\frac{1}{2}$	0	10 $\frac{1}{2}$	0	10 $\frac{1}{2}$	0	11 $\frac{1}{2}$
2	0	2	0	2 $\frac{1}{2}$	0	2 $\frac{1}{2}$	0	3	8	0	8 $\frac{1}{2}$	0	11	0	11 $\frac{1}{2}$	1	0
2 $\frac{1}{2}$	0	2 $\frac{1}{2}$	0	3	0	3	0	3 $\frac{1}{2}$	8 $\frac{1}{2}$	0	9 $\frac{1}{2}$	0	11 $\frac{1}{2}$	1	0	1	0 $\frac{1}{2}$
3	0	3	0	4	0	4 $\frac{1}{2}$	0	4 $\frac{1}{2}$	9	0	9 $\frac{1}{2}$	1	0 $\frac{1}{2}$	1	0 $\frac{1}{2}$	1	1 $\frac{1}{2}$
3 $\frac{1}{2}$	0	3 $\frac{1}{2}$	0	4 $\frac{1}{2}$	0	5	0	5 $\frac{1}{2}$	9 $\frac{1}{2}$	0	10 $\frac{1}{2}$	1	1	1	1 $\frac{1}{2}$	1	2 $\frac{1}{2}$
4	0	4	0	5 $\frac{1}{2}$	0	5 $\frac{1}{2}$	0	6	10	0	11	1	2	1	2	1	3
4 $\frac{1}{2}$	0	5	0	6	0	6 $\frac{1}{2}$	0	6 $\frac{1}{2}$	10 $\frac{1}{2}$	0	11 $\frac{1}{2}$	1	2 $\frac{1}{2}$	1	2 $\frac{1}{2}$	1	3 $\frac{1}{2}$
5	0	5 $\frac{1}{2}$	0	6 $\frac{1}{2}$	0	7	0	7 $\frac{1}{2}$	11	1	0	1	3	1	3 $\frac{1}{2}$	1	4 $\frac{1}{2}$
5 $\frac{1}{2}$	0	6	0	7 $\frac{1}{2}$	0	7 $\frac{1}{2}$	0	8 $\frac{1}{2}$	11 $\frac{1}{2}$	1	0 $\frac{1}{2}$	1	3 $\frac{1}{2}$	1	4 $\frac{1}{2}$	1	5 $\frac{1}{2}$
6	0	6 $\frac{1}{2}$	0	8	0	8 $\frac{1}{2}$	0	9	12	1	1	1	4 $\frac{1}{2}$	1	4 $\frac{1}{2}$	1	6

TABLE XIV.

SHOWS THE RELATIVE WEIGHT OF THE IMPERIAL, DUTCH, AND EDINBURGH, GLASGOW, AND AYRSHIRE TRONE POUNDS, FROM 1 TO 24 POUNDS IMPERIAL.

Impl. Lbs.	Dutch Lbs.		Edin. Tr. Lbs.		Glasgow Tr. Lbs.		Ayr. Tr. Lbs.		Impl. Lbs.	Dutch Lbs.		Edin. Tr. Lbs.		Glasgow Tr. Lbs.		Ayr. Tr. Lbs.	
Lbs.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	Lbs. Oz.	
1	0	14 $\frac{1}{2}$	0	11 $\frac{1}{2}$	0	11 $\frac{1}{2}$	0	10 $\frac{1}{2}$	13	11	14 $\frac{1}{2}$	9	7 $\frac{1}{2}$	9	4	8	10 $\frac{1}{2}$
2	1	13 $\frac{1}{2}$	1	7 $\frac{1}{2}$	1	6 $\frac{1}{2}$	1	5 $\frac{1}{2}$	14	12	12 $\frac{1}{2}$	10	3	9	15 $\frac{1}{2}$	9	0 $\frac{1}{2}$
3	2	12	2	3	2	2 $\frac{1}{2}$	2	0	15	13	11 $\frac{1}{2}$	10	14 $\frac{1}{2}$	10	10 $\frac{1}{2}$	10	0
4	3	10 $\frac{1}{2}$	2	14 $\frac{1}{2}$	2	13 $\frac{1}{2}$	2	10 $\frac{1}{2}$	16	14	10	11	10 $\frac{1}{2}$	11	6	10	10 $\frac{1}{2}$
5	4	9 $\frac{1}{2}$	3	10 $\frac{1}{2}$	3	9	3	5 $\frac{1}{2}$	17	15	8 $\frac{1}{2}$	12	5 $\frac{1}{2}$	12	1 $\frac{1}{2}$	11	5 $\frac{1}{2}$
6	5	7 $\frac{1}{2}$	4	5 $\frac{1}{2}$	4	4 $\frac{1}{2}$	4	0	17 $\frac{1}{2}$	16	0	12	11 $\frac{1}{2}$	12	7	11	10 $\frac{1}{2}$
7	6	6 $\frac{1}{2}$	5	1 $\frac{1}{2}$	4	15 $\frac{1}{2}$	4	10 $\frac{1}{2}$	18	16	7 $\frac{1}{2}$	13	1 $\frac{1}{2}$	12	12 $\frac{1}{2}$	12	0
8	7	5	5	13	5	11	5	5 $\frac{1}{2}$	19	17	6	13	13	13	8 $\frac{1}{2}$	12	10 $\frac{1}{2}$
8 $\frac{1}{2}$	8	0	6	5 $\frac{1}{2}$	6	3 $\frac{1}{2}$	5	13 $\frac{1}{2}$	20	18	4 $\frac{1}{2}$	14	8 $\frac{1}{2}$	14	3 $\frac{1}{2}$	13	5 $\frac{1}{2}$
9	8	3 $\frac{1}{2}$	6	8 $\frac{1}{2}$	6	6 $\frac{1}{2}$	6	0	21	19	2 $\frac{1}{2}$	15	4 $\frac{1}{2}$	14	15	14	0
10	9	2 $\frac{1}{2}$	7	4 $\frac{1}{2}$	7	1 $\frac{1}{2}$	6	10 $\frac{1}{2}$	22	20	1 $\frac{1}{2}$	16	0	15	10 $\frac{1}{2}$	14	10 $\frac{1}{2}$
11	10	1	8	0	7	13 $\frac{1}{2}$	7	5 $\frac{1}{2}$	22 $\frac{1}{2}$	20	9 $\frac{1}{2}$	16	5 $\frac{1}{2}$	16	0	15	0
11 $\frac{1}{2}$	10	4 $\frac{1}{2}$	8	3	8	0	7	8	23	21	0 $\frac{1}{2}$	16	11 $\frac{1}{2}$	16	5 $\frac{1}{2}$	15	5 $\frac{1}{2}$
12	10	15 $\frac{1}{2}$	8	11 $\frac{1}{2}$	8	8 $\frac{1}{2}$	8	0	24	21	15	17	7 $\frac{1}{2}$	17	1	16	0

APPENDIX.

TABLES OF WEIGHTS AND MEASURES.

IMPERIAL TROY WEIGHT.

.003961 of a cubic inch of water	= 1 grain.	(gr.)
24 grains	= 1 pennyweight.	(dwt.)
20 pennyweights	= 1 ounce.	(oz.)
12 ounces	= 1 pound (lb.)	= 5760 grains.

This weight is used for weighing gold, silver, jewels, &c.; also, for comparing different weights with one another. A silver shilling weighs 3 dwts. $15\frac{5}{11}$ grs.; a gold sovereign 5 dwts. 3.2745 grs.

IMPERIAL AVOIRDUPOIS WEIGHT.

		Troy grains.	Cub in. of water.
16 drams (dr.)	= 1 ounce	= 437½	= 1.7329625
16 ounces (oz.)	= 1 pound	= 7000	= 27.7274
14 pounds (lb.)	= 1 stone	= 98000	= 388.1836
28 pounds (lb.)	= 1 quarter		= 776.3672
4 quarters (qr.)	= { 1 hundred } weight }		= 3105.4688
20 hundred } weight }	(cwt.) = 1 ton		= 62109.376

Butcher meat in London is sold by the Smithfield stone of 8 lbs.; but in some counties of England the stone contains 12, in others 14, and in some even 16 lbs. Imperial.

This weight is now used for all articles sold by weight, except the precious metals, &c., which are sold by Troy weight. As there are 5760 grs. in the pound Troy, and 7000 in the pound Avoirdupois, they are to one another in the proportion of 5760 to 7000, or as 144 to 175.

IMPERIAL MEASURES OF CAPACITY.

		cubic inches.	
1 gill	=	8.6648125	= 5 oz. of water.
4 gills	= 1 pint	= 34.65925	= 1¼ lb. "
2 pints	= 1 quart	= 69.3185	= 2½ lb. "
4 quarts	= 1 gallon	= 277.274	= 10 lb. "
2 gallons	= 1 peck	= 554.548	= 20 lb. "
4 pecks	= 1 bushel	= 2218.192	= 80 lb. "
8 bushels	= 1 quarter	= 17745.536	= 640 lb. "

4 quarters make a chaldron, and 10 quarters a last. In London a chaldron of coals is 36 bushels.

This measure is used both for liquids and dry goods, the measures up to the gallon being used for liquids, and from the peck upwards for dry goods.

	cubic in.	Imp. galls.
The Winchester bushel measured	2150.42, and contained	7.75557
The Irish bushel	2178	7.85504
The Irish gallon for all liquids.....	217.6	.78473
The Old English Wine gallon.....	231	.83311
The Old English Beer and Ale gallon.....	282	1.01705
The Scotch gallon for all liquids.....	833.6272	3.00651

IMPERIAL LONG, OR LINEAL MEASURE.

12 lines	= 1 inch.	
12 inches	= 1 foot.	
3 feet	= 1 yard.	
5½ yards	= 1 pole, perch, or rod	= 16½ feet.
40 poles	= 1 furlong	= 220 yards.
8 furlongs	= 1 mile	= 1760 "

A Scotch mile is 1976½ yards, an Irish mile is 2240 yards, a palm is 3 inches, a hand is 4 inches, a span is 9 inches, a cubit is 18 inches, a fathom is 6 feet, an ell English is 45 inches; the length of a pendulum vibrating seconds at London 39.1393 inches.

IMPERIAL SQUARE, OR SUPERFICIAL MEASURE.

144 square inches	= 1 square foot.
9 square feet	= 1 square yard.
30¼ square yards	= 1 square pole = 272¼ square feet.
40 square poles	= 1 rood = 1210 square yards.
4 roods	= 1 acre = 4840 "
648 acres	= 1 square mile.

The Irish lineal pole or perch is 7 yards, and the square perch 49 square yards; the Imperial square pole being 30¼ square yards, the acre is to the Irish as 30¼ to 49, or as 121 to 196. 100 square feet = a square of flooring; 36 square yards = a rood of building; 272¼ square feet are sometimes reckoned a rood of brick work.

The chain used for measuring land is 4 poles or 22 yards long, and consists of 100 links, each link being $\frac{22}{100}$ of a yard, or 7.92 inches long; 10,000 square links make a square chain; 25,000 square links = a square rood; 100,000 square links = a square acre.

CUBIC, OR SOLID MEASURE.

1728 cubic inches	= 1 cubic foot.
27 cubic feet	= 1 cubic yard = 46656 cubic inches.

A cubic inch of water weighs 252.458 grains, or .0360654 pound Imperial, and a cubic foot 62.321 pounds; a barrel bulk is

5 cubic feet; a ton of shipping is 42 cubic feet; a load of unhewed timber is 40 cubic feet; a load of squared timber is 50 cubic feet.

SCOTCH LINEAL MEASURE.

	ells.	Imp. inches.	
1 ell	=	37.0598	= 3.088316 ft.
6 ells	= 1 fall	= 222.3588	= 18.5299 "
4 falls	= 1 chain = 24	= 889.4352	= 74.1196 "
10 chains	= 1 furlong = 240	= 8894.352	= 247.0653 yds.
8 furlongs	= 1 mile = 1920	= 71154.816	= 1976.5226 "

There having been some uncertainty regarding the length of the Scotch ell, a jury was appointed by the Sheriff-Depute of the County of Edinburgh, which met 4th February, 1826, and determined, in conformity to a report by competent persons, that the standard ell-bed, in the custody of the city of Edinburgh, measured 37.0598 Imp. inches, and the Scotch chain of 24 ells 74.1196 Imp. feet, divided into 100 links, each 8.894352 inches.

Some land measurers, reckoning the Scotch ell at 37 inches, used a chain of 74 Imp. feet, divided into 100 links, each 8.88 inches; others, reckoning the Scotch ell at $37\frac{2}{10}$, used a chain of $74\frac{4}{10}$ feet, divided into 100 links, each 8.928 inches.

SCOTCH LAND MEASURE.

		Square yards.
1 square ell	= 9.5377 Imp. sq. ft. =	1.059744425956
36 square ells	= 1 square fall =	38.150799334
16 square falls	= 1 square chain =	610.412789351
40 square falls, or $2\frac{1}{2}$ chains	} = 1 square rod =	1526.03197337
4 square roods, or 10 chains		
	= 1 acre = 5760 ells =	6104.12789351

The Scotch acre is to the Imperial as 1.261183449 is to 1, or as 1 to .79290606, or very nearly as 874 to 693. When the chain is reckoned to be 74 feet, the acre will contain $6084\frac{1}{2}$ yards, and is to the Imperial acre as 1.25711662 is to 1; when it is reckoned to be $74\frac{4}{10}$ feet, the acre will contain $6150\frac{4}{10}$ yards, and is to the Imp. acre as 1.2707438 is to 1.

SCOTCH DRY MEASURE.

		For Wheat.	For Barley & Oats.
		cup. in.	cup. in.
4 lippies or forpats	= 1 peck =	553.581 ...	807.576
4 pecks	= 1 firiot =	2214.322 ...	3230.305
4 firlots	= 1 boll =	8857.289 ...	12921.222
16 bolls	= 1 chalders =	141716.624 ...	206739.546

The Scotch pint jug was found to contain 26306.982 Imp. Troy grains, or 3.7581 pounds of water, and measured 104.2034 cubic inches. The wheat firiot is nearly equal to the Imp. bushel, and contained $21\frac{1}{2}$ Scotch pints = 7.98605 Imp. gallons;

and is to the Imp. bushel as .998256 to 1. The barley firlot contained 31 Scotch pints = 11.65024 Imp. gallons, and is to the Imp. bushel as 1.4562794 to 1.

SCOTCH TROYES, OR DUTCH WEIGHT.

16 drops = 1 ounce = 1.09375 ounce Imp.
 16 ounces = 1 pound = $17\frac{1}{2}$ ounces Imp. = 7656.25 Imp. grains.
 16 pounds = 1 stone = $17\frac{1}{2}$ pounds Imp.
 4 lippies, or $\frac{1}{2}$ stone of meal = 1 peck = $8\frac{3}{4}$ lbs. Imp.
 16 pecks = 1 boll = 140 lbs. Imp.; 2 bolls = 1 sack or load = 280 lbs. Imp.; and 16 bolls = 1 chaldier.

The Scotch Troyes, or Dutch pound, being the 16th part of the Lanark stone, was found, by an Edinburgh jury, to weigh 7608.9496875 Imp. grains, or 17.392 Imp. ounces, in place of $17\frac{1}{2}$, as was usually estimated. But since the verdict here referred to was passed, the Lanark stone has been suspected by the reporters, on whose authority the verdict rests, to be hardly entire, and that for every practical purpose it may be estimated at $17\frac{1}{2}$ ounces = 7656 $\frac{1}{2}$ Imp. Troy grains, as in the Table. The pound is then in proportion to the Imp. as $17\frac{1}{2}$ to 16, or 35 to 32; and the stone is to the Imp. stone as $17\frac{1}{2}$ to 14, or 35 to 28.

This weight was used for weighing meal, iron, unwrought pewter and lead, hemp, flax, most Dutch and Baltic goods, and other articles.

SCOTCH TRONE WEIGHT.

16 drops = 1 ounce.
 16 ounces = 1 pound.
 16 pounds = 1 stone.

This weight was used for weighing butter, cheese, butcher meat, hay, and other home productions, and varied in different counties in Scotland, from 20 to 28 Imp. ounces to the pound. By an Edinburgh jury, in 1826, the Trone pound was found to weigh 9622.67 Imp. grains, or as 1.374667 to 1 pound Imp.; or very nearly 22 Imp. ounces. In Glasgow, and the Lower Ward of Lanarkshire, the pound in general use contained $22\frac{1}{2}$ Imp. ounces; in Berwickshire and Dumbartonshire, 23 ounces; Selkirkshire, $23\frac{1}{2}$ ounces; Ayrshire, Montrose, Brechin, Arbroath, &c., 24 ounces; part of Kirkcudbrightshire, 26 ounces; Kirriemuir, 27 ounces; and Aberdeen, 28 ounces. The pound of these weights are in proportion to the Imp. pound as the number of the Imp. ounces in their pound is to 16; and their stone contains the same number of Imp. pounds as their pounds contain of Imp. ounces. But as there are 16 pounds to the Trone stone, and only 14 pounds to the Imp. stone, the Trone stone is to the Imp. stone in the proportion of the number of Imp. pounds in their stone to 14, the number of pounds in the Imp. stone. As the Dutch and Trone weights are similarly

divided, they are to one another in the proportion of the number of Imp. ounces in their pounds, or Imp. pounds in their stone.

BREAD AND FLOUR WEIGHT.

4 lbs. 5½ oz. Imp.	=	1 quarter loaf.
8 lbs. 11 oz. "	=	1 half peck do.
17 lbs. 6 oz. "	=	1 peck do.

A peck or stone of flour is 14 lbs., a bushel of flour is 56 lbs., a boll is 140 lbs., a sack or 5 bushels is 280 lbs., or 2½ cwt.

OLD ENGLISH DRY MEASURE.

		Cub. in.	Imp. gal.
2 pints	= 1 quart	= 67.2	= 0.24236
4 quarts	= 1 gallon	= 268.8	= 0.96944
2 gallons	= 1 peck	= 537.6	= 1.93889
4 pecks	= 1 bushel	= 2150.42	= 7.75558
4 bushels	= 1 coom	= 8601.68	= 31.02231
2 cooms	= 1 quarter	= 17203.36	= 62.04462
5 quarters	= 1 wey or load	= 86016.80	= 310.22310
2 weys	= 1 ton	= 172033.60	= 620.44620

WOOL WEIGHT.

7 lbs. avoirdupois	=	1 clove
14 lbs. or 2 cloves	=	1 stone
28 lbs. or 2 stones	=	1 tod
182 lbs. or 6½ tods	=	1 wey
364 lbs. or 2 weys	=	1 sack
4368 lbs. or 12 sacks	=	1 last.

20 lbs. = 1 score, and 240 lbs. or 12 scores = 1 pack.

Wool is frequently sold in Scotland by a stone of 24 lbs. imp.

HAY AND STRAW WEIGHT.

36 lbs. Imp. of straw	=	1 truss.
56 lbs. of old hay	=	1 do.
60 lbs. of new hay	=	1 do.
36 trusses	=	1 load.

A load of straw weighs 11 cwt. 2 qrs. and 8 lbs., a load of old hay 18 cwt., and a load of new hay 19 cwt. and 32 lbs. Each truss of hay sold between 1st June and 31st August, being new hay of that year's growth, must weigh 60 lbs., and every truss sold between 31st August and 1st June, in the succeeding year, must weigh 56 lbs.

THE QUARTERLY TERMS.

In England.	In Scotland.
Lady-day, 25th March.	Candlemas, 2d February.
Midsummer, 24th June.	Whitsunday, 15th May.
Michaelmas, 29th September.	Lammas, 1st August.
Christmas, 25th December.	Martinmas, 11th November.

THE END.

280
200 5-6
100 0 0

2 8

10
2-11
5 0
1-1

