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THE
GENTLEMAN AND FARMER'S
POCKET COMPANION
AND
ASSISTANT.

SECOND EDITION IMPROVED.

THE
CENTRAL AND
EASTERN
RAILROAD

1887

NEW YORK

THE
GENTLEMAN AND FARMER'S
POCKET COMPANION

AND
ASSISTANT:

CONSISTING OF

T A B L E S

FOR FINDING THE CONTENTS OF ANY PIECE OF LAND BY PACING,
OR BY DIMENSIONS TAKEN ON THE SPOT IN ELLS;

LIKEWISE,

VARIOUS OTHER TABLES,

OF GREAT USE TO EVERY GENTLEMAN AND FARMER
IN SCOTLAND.

BY JOHN AINSLIE,
LAND SURVEYOR IN EDINBURGH.

EDINBURGH:
Printed by John Brown, Anchor Close,
FOR ARCH. CONSTABLE AND CO.

1812.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPENDIX

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GENTLEMEN AND FARMERS OF SCOTLAND,
THIS WORK,
COMPOSED FOR THEIR CONVENIENCE,
IS PRESENTED,
WITH THE GREATEST RESPECT,
BY THEIR MOST OBEDIENT SERVANT,

JOHN AINSLIE.

200773

THE UNIVERSITY OF CHICAGO

PHILOSOPHY

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1848

THE
GENTLEMAN AND FARMER'S
POCKET COMPANION
AND
ASSISTANT.

THOUGH the art of Land-Measuring has been carried to a great degree of perfection, in consequence of the numerous important treatises on it which have been successfully published, and the expensive and valuable instruments which have been invented for taking angles and distances, and for protracting and delineating the same upon a plan or map, so that the extent or area of any piece of land, large or small, may be had in known dimensions; yet no Tables have been published in this country to abridge the laborious calculations of the Land-mesurer, and to prevent those errors to which such calculations are always liable. A very great deal of calculation is required, because the measures hitherto used are low; such as links, feet, and inches, which must be multiplied into one another before the contents can be known: And after the area is got, and the operation completed, the best of calculators cannot be certain that the work is right without going over the calculation a second time; and if these two operations happen not to agree, a third, fourth, and frequently a

fifth is necessary, before the truth can be ascertained. Thus much time is lost in recalculating and proving the work by long and tedious operations.

1. The following TABLES, which are intended to save this labour, will be found very simple, and easily comprehended. To render them as useful as possible, dimensions, taken in Scots ells of 37 inches each, rather than links, feet, or any other measure, have been preferred. This will be found very convenient, as most men step or pace about an ell; and the contents of a square piece of land may be ascertained very nearly by *padding* over the length and breadth.

But when precision is wanted, the person who has occasion to measure a piece of land should get a strong cord, such as gardeners use, or a piece of tape, 10 ells long, and divide it into ells of 37 inches each, by marks put upon the cord, or figures written upon the tape; and each ell may be divided into halves and quarters, which will give the measure to the half or quarter of an ell.

The Tables are so constructed as to give the contents of any regular piece of land, from 1 ell in length and breadth to 600, by addition only; and, for the most part, when the field is regular, the labour does not exceed the addition of three or four sums.

It can hardly be supposed that tables can be contrived to answer every irregular piece of land, without a great deal of calculation; yet the quantity may be known with sufficient precision, for all the purposes of sowing, mowing, hoeing, ploughing, harrowing, dunging, liming, trenching, planting, &c. by means of them. And they will be particularly useful to every person who is accustomed to sell or buy by the acre any quantity of standing grain, turnips, grass, clover, potatoes, lint, &c. They will likewise be found serviceable in ascertaining what to pay labourers for their work when employed by the acre,

and in settling disputes between them and their masters; for the tables are so simple, that the labourers have only to measure the distances, and the book will tell them the contents.

Several other tables are added, which will be of the utmost utility to country gentlemen and farmers, &c. These tables are the following; an explanation of each of which will be given in its proper place.

2. Tables for turning Scotch measure into English, and English measure into Scotch—for turning Irish measure into English, and also into Scotch.

3. Tables for shewing the length and breadth required for an acre from 1 ell in length to 600, and from 1 ell wide to 400; with an explanation what width to measure to stake off any quantity of acres to any given length, by which the quantity of seed wanted to sow is easily ascertained.

4. Tables shewing the length of a rood of masonry in a stone dyke from one inch high to ten feet, by measuring the lineal length of the dyke only.

5. Tables to know how many cabbages may be planted, upon ground from 1 fall to 60 acres, at 1 foot distant from one another to 5 feet.

6. Tables to know what quantity of forest trees to order to plant upon, from 1 fall to 60 acres of ground, from three feet distant from tree to tree to six feet.

7. Tables for manuring land, shewing the distance of the heaps, and the number of heaps made in a cart load, and the number of loads required for an acre.

8. Tables of slaters and thatchers work, from 1 foot the slant of the roof to 18 feet, and from 1 foot long to 100, shewing the number of square yards there are contained in any roof not exceeding the above dimensions.

9. Tables to know how many thorns or quicksets to purchase for inclosing ground from 1 ell in length to 10,000, and at one inch distant from thorn to thorn to ten inches.

10. Tables of interest, from £1 to £900,000, for any time, and at any rate of interest, by a simple and expeditious operation; to which is added, a table, shewing how many days there are from any day in any month to the same day in any other month.

12. Table for turning Scotch chains and links into ells, and also for turning English chains and links into ells, of 37 inches each, from 1 link long to 60 chains.

13. Tables for turning acres, roods, and falls, into money, from 6d. *per* acre to £1000, and from 1 fall to 60 acres.

14. Tables of solid measure, for finding the contents of any tree from 6 inches square of the side to 20 inches, and from 1 foot long to 42.

15. Tables shewing the number of cubic feet there are in a running yard of cutting, in a ditch or drain from 1 foot deep to 6 feet, and from 1 foot wide to 6 feet, with directions to know the number of cubic yards of cutting there are in any running length, if not deeper or wider than the above dimensions.

It would be presumption to say any thing more in favour of these tables, than that every method has been studied to make them comprehend a great deal in very little room.

THAT the use of the first tables may be easily understood, a few directions will be necessary, in order to explain the method of taking the dimensions in the field.

Land in Scotland is generally estimated in acres, roods, falls, and ells. There are 36 ells in 1 fall, 40 falls in 1 rood, and 4 roods in

1 acre; consequently, if you have any sums of acres, roods, falls, and ells, to add together, you must carry 1 for every 36 ells that you have from the ells to the falls; if you have twice 36, or 72, you must carry 2; if you have three times 36, or 108, you must carry 3; and so on: but always set down the remainder in the column under ells. In adding up the falls, you must carry 1 to the roods for every 40 falls; if you have twice 40, or 80, you must carry 2 to the roods; if you have three times 40, or 120, you must carry 3 to the roods. In adding up the roods, you must carry 1 to the acres for every 4; if you have twice 4, or 8, you must carry 2; if you have three times 4, or 12, you must carry 3; and so on: and always set down the remainders under their respective columns. Two or three examples will make the whole plain and distinct.

EXAMPLE I.	EXAMPLE II.	EXAMPLE III.
A. R. F. E.	A. R. F. E.	A. R. F. E.
9 — 25 20	— 3 8 5	10 2 20 18
5 3 — 35	6 2 18 10	12 3 32 17
10 3 9 50	8 1 12 16	15 2 16 12
25 2 36 13	15 2 38 51	39 — 29 11

To the greater number of readers these directions will appear superfluous; but it is not every person that may be in possession of the Tables who can remember how many ells there are in a fall, or how many falls there are in a rood, or how many roods are in an acre. In the first example you find there are 85 ells, which is twice 36, and 13 remaining: therefore 13 is set down under ells, and 2 carried to the falls. You next sum up the falls, and you find they amount to 36 falls, which is set down under the falls; 36 being less than

40, there is nothing to carry. You then sum up the roods, which amount to 6; which being 2 more than 4, you set down 2 under roods, and carry 1 to the acres. You then sum up the acres, and you find they amount to 25:—which makes in all 25 acres, 2 roods, 36 falls, 13 ells.—In example second, you sum up the ells, and they amount to 31; you set down 31 under ells, and carry nothing because 31 is less than 36. You next add up the falls, and they amount to 38; you set down 38 under falls, and have nothing to carry. You next sum up the roods, which amount to 6; which being 2 more than 4, you set down 2 under roods, and carry 1 to the acres. You then sum up the acres, and they amount to 15, which you set down under acres. So that the whole sum is 15 acres, 2 roods, 38 falls, 31 ells. In example third, you sum up the ells, which amount to 47; which being 11 more than 36, you set down 11 under ells, and carry 1 to the falls. You next add up the falls, and they amount to 69, or 29 more than 40; you therefore set down 29 under falls, and carry 1 to the roods. You next add up the roods, and they amount to 8, or exactly two 4's; therefore you set down 0 under roods, and carry 2 to the acres. You next add up the acres, and they amount to 39. Thus the sum total is 39 acres, 0 roods, 29 falls, 11 ells.—The above is so plain, that no farther illustration is necessary.

It will not be amiss to give a few directions how to measure a straight line in the field, as more depends upon it than any thing else.

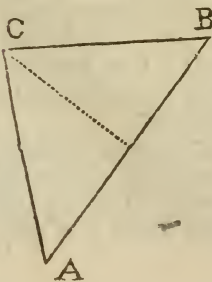
It will be necessary to be provided with two or three poles, hay-forks, rake-shafts turnip-poles, or any other long sticks to make station staffs of, with the tape or cord before described, with ten pins, about nine inches long, made of pieces of wood (or of iron, which is better), and with a common ellwand. Let one of your station staffs be put up where you begin to measure, and let another be put up where you in-

tend to measure to. The person that goes first is called the leader, and the person behind the follower. Let the leader take the ten pins and one end of the tape or cord (or a chain). The follower stands at the station-staff, and directs the leader to go upon the line, when the follower directs him to pull the cord straight, and to put down one of his pins at the end of the line, exactly in a line with the pole you intend to measure to. The leader goes on, and the follower comes up to the leader's first pin, and directs him to put down another pin exactly in a line with the station-staff, and at the end of the tape or cord. The leader goes on, and the follower takes up the leader's first pin, and proceeds on to the leader's second pin. The leader always sticks down his pins exactly in the line, by the follower's directions; and the follower takes up till the whole of the pins are in his hands. This is called one change, or 100 ells (which ought to be marked down). The follower gives the leader the ten pins, and proceeds measuring on in the same line till the pins are all spent. This is called two changes, or 200 ells (which should be noted down). The leader takes the pins, and proceeds on as before, till the pins are again all in the follower's hands; which would make three changes, or 300 ells. But we shall suppose that the leader arrives at the station-staff between the second and third change; in that case, the follower's pins are counted, and the odd ells, which suppose is five pins, five ells and a half (the half ell is measured with the ellwand). You find the length of the line to be two changes, five pins, five ells and a half; which should be expressed in your Field-book $255\frac{1}{2}$ ells.

If a person has much measuring, I would advise him to get a chain made ten ells long, and get each ell divided into four links, or a quarter of an ell each link; which would save the trouble of taking the ellwand to the field. However, the ellwand will be found very use-

ful upon irregular and angled ground to take offsets. The person that makes the chain can put in marks as in the common chains. It is presumed the length of this chain has many advantages over a chain that is more than double its length. In the first place, you can see from one pin to the other, as the distance is shorter. The leader is always nearer the line; consequently he has a shorter distance to go till he is upon it. In the next place, there is less risk of the pins being dragged from the place they were stuck down by the leader; and they are much easier found by the follower in the field than if the line was measured with a longer chain. This short chain is less liable to wear, and not so apt to break, and will cost less money: but a piece of cord or tape will answer every purpose to a farmer who has only pieces of his own farm to measure; or if he make regular steps he will come very near the truth by pacing.

I SHALL now make the whole as simple and easily comprehended as possible, by annexing the representation of a few figures of the shapes of land that you may have to measure, and pointing out what way the dimensions ought to be taken in the field, and the contents found out by the Tables.



The annexed figure ABC represents a triangular field. Measure the longest line from A to B, which you find to be 610 ells; and in measuring that line, when you are opposite the corner C, leave a mark; which mark you go back to, and from it measure to the corner C; which you find is 550 ells.

Explanation.—Look at the top of the table for 505 ells, which is the half of the line AB, and carry your eye down that column till you

are opposite 300 ells wide, and down the same column till you are opposite 50 ells, and you will find the contents thus:

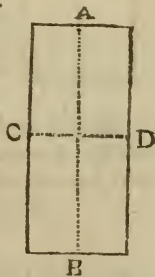
	A.	R.	F.	E.
Look at the top for { opposite 300 ells wide is	15	3	21	24
305 ells long, and { opposite 50 ditto is.....	2	2	23	22

The sum is the contents,..... 18 2 5 10

N. B. It will be proper to observe, that the dotted lines across the field are not fences, but are lines that are measured for finding out the contents; and the reason of taking the half of either of the longest side or the perpendicular is, because every triangle is but half of a square.

The annexed figure ABCD is the representation of a square field that is longer than it is wide.

Explanation.—Measure the length in the middle from A to B, which is 482 ells, and the breadth from C to D, $220\frac{1}{2}$ ells. If you cannot conveniently measure through the middle of the field for standing corn, you may take the length of the lines D and C, and add them together, and take their half; which will give a mean length. You may take the length of the line B, and also of the line A, and adding them together, take their half for a mean width.

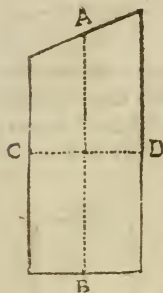


The contents are found thus :

	A.	R.	F.	E.
Look at the top for { opposite 200 ells wide is	16	2	37	28
482 ells long, and { opposite 20 ditto is.....	1	2	27	28
Look at the top for 241 ells, and op- } posite 1 ell wide, for the half ell, }	—	—	6	25

The sum is the contents,..... 18 1 52 9

N. B. The half ell, as before, is found out in the tables by taking half of the length, and opposite 1 ell wide, is the contents. At any time, if you want a quarter of an ell, which will happen sometimes, you divide the length by 4; and opposite 1 ell wide is the contents.



The adjoining figure is the representation of a field, which is longer on one side than the other, marked ABCD.

The contents are found out in the same way as the last figure, and need no other explanation. But the exact middle must be found out before you are certain you have a right length from A to B. If you are too near D, your distance will be too long; if you are too near C, your distance will be too short. The best way to get an exact mean is to measure the length of the line D 562 ells, and also the length of the line C 462 $\frac{1}{2}$, and add these two lengths together, and take their half for a mean length, which is 512 $\frac{1}{2}$ ells; and the breadth of the field from C to D is 252 ells.

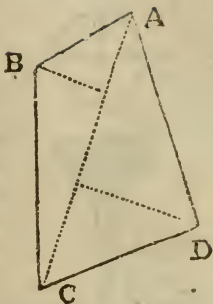
The contents in the Tables are found out thus:

		A.	R.	F.	E.	
Look at the top for	{ opposite 200 ells wide is	17	5	4	16	
		512 ells long, and	4	1	31	4
		{ opposite 2 ditto is.....	—	—	28	16
Then take the quarter of 512 ells, which is 128, and opposite 1 ell wide is	}	—	—	3	20	

The amount sought..... 22 1 27 20

The annexed figure ABCD is the representation of a field that has four sides all unequal.

Explanation.—1st. Measure the diagonal line across the field from A to C, which you find is 622 ells; and in measuring that line, leave a mark opposite the corner B, and also a mark opposite the corner D: you then go back to your mark opposite the angle D, and measure to D, which you find 274 ells; you then go up to your mark opposite the corner B, and measure to B, which you find is 166 ells.



The contents are found in the Tables thus:

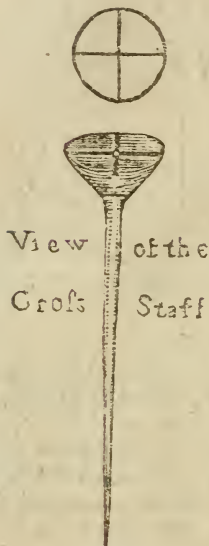
Take the half of the diagonal line 622, which is 311, and the sum of the perpendiculars, viz. D 274 ells, and B 166; which is 440 ells.

	A.	R.	F.	E.
Look for 311 ells { opposite 400 ells wide is..	21	2	15	20
at the top, and { opposite 40 ditto is	2	—	25	20

The amount of the four-sided figure sought.. 25 3 1 4

N. B. It very often happens, that a person who is not acquainted with measuring would take the lengths and breadths of the figure annexed, and add them together, and take a mean length and breadth and multiply the one into the other for the contents. But this is erroneous, and gives the measure a great deal too much.

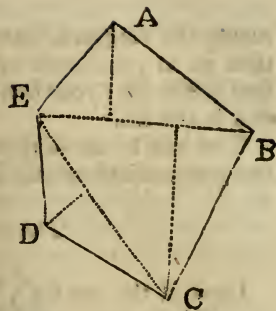
Top of the Cross Staff.



Those that have not had much practice cannot judge exactly where to lay off the perpendiculars, or leave marks upon the diagonals. In that case it would be advisable to get a cross staff made, if you wish to be very correct with your measurement, like the adjoining figure; which any country wright can make for a mere trifle. The circle, with two lines sawn across at right angles, about half an inch deep, is supposed to be the cross at the head of the staff. The diameter of the circle may be two inches, and the length of the staff about five feet. This simple instrument will be of great use, not only in laying off the perpendiculars, but also where you cannot see all the way from one station staff to another on account of rising ground in the middle of the field. In that case, you have only to go upon the rising ground till you can see both station-staffs, and stick the cross staff in the ground, and turn it round till you see one of your station-staffs through the slit, and then with your eye look in the opposite side of the slit to the other station-staff. If you are not in a line, you must shift about till both station-staffs are seen through the slit on the cross staff. You put up a mark where the cross staff stood, which mark is in a line with the station-staffs. You then measure to the mark in the middle of the field, and from thence to the pole or station-staff you could not see from where you began. Few instruments are of greater use than the cross staff; but being very simple and cheap, is not much thought of.

The annexed figure ABCDE is the representation of a field of five sides.

Explanation.—1st, Measure the diagonal from B to E, which is 462 ells, and leave marks opposite the angles C and A upon the diagonal; you then go back to your mark opposite A, and measure to the angle at A, which is 200 ells; then go to the mark you left opposite the angle at C, and measure to C, which is 360: add the length of A and C together, and take their half for a mean width, which is 280 ells.



2d, Measure the line from C to E, which is 492 ells, and leave a mark opposite the angle D; you then go back to the mark and measure to D, which is 104 ells; the half of which is 52 for a mean width.

The contents are found out thus :

		A.	R.	F.	E.
Look into the Table for 462	} 200 ells wide is	16	—	6	24
		6	1	26	24
ells long, and opposite to		<hr/>			
	} 80 ditto is	22	1	33	12

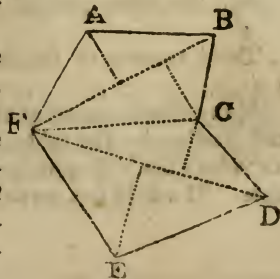
Amount of that part of the field ABCE

Again, look into the Table for	} 50 ells wide is	4	1	3	12
		—	—	—	27
492 ells long, and opposite to		<hr/>			
	} 2 ditto is	26	3	24	—

Total amount of the field of five sides .. 26 3 24 —

The annexed figure ABCDEF is the representation of a field of six sides.

Explanation.—Measure the diagonal line from B to F, which you find is 462 ells, and leave marks opposite the angles C and A; you measure from your mark into the corner A, which is 152 ells; you then measure from your mark into C, which is 142 ells; you then go to D, and measure the diagonal to F, which is 500 ells; and in mea-



asuring the diagonal, leave marks opposite the corners C and E; you then go to your mark opposite E, and measure into E, which you find is 208 ells; you then measure from your mark into C, which you find is 108 ells.

The half of the diagonal line BF is 231 ells, and the sum of the two perpendiculars into C and A is 274 ells.

The contents are found thus:

	A.	R.	F.	E.
Look at the top for { opposite 200 ells wide is	9	2	2	8
274 ells long, and { opposite 30 ditto is ~~~~~	1	1	28	12
{ opposite 1 ditto is ~~~~~	—	—	7	22
	<hr/>			

The amount of that part of the field ABCF ~~~~~ 10 3 38 6

Then half of the diagonal line DF is 250 ells, and the sum of the two perpendiculars E and C is 316 ells.

	A.	R.	F.	E.
Look at the top for { opposite 200 ells wide is	10	3	35	20
316 ells long, and { opposite 50 ditto is ~~~~~	2	2	38	32
	<hr/>			

Amount of that part of the field CDFE ~~~~~ 13 2 34 16

Add the other part of the field ABCF ~~~~~ 10 3 38 6

Total amount of the field ABCDEF ~~~~~ 24 2 32 22

Many more examples might be given of the method for measuring and finding by the tables the contents of a field that has more than six sides; but it is quite needless, as they are all upon the same principle. If a field has seven sides, divide it upon the spot into triangles

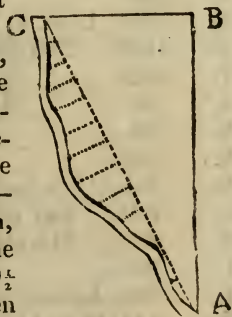
and square plots. If it has eight, nine, or any greater number of sides, do the same. Find the amount of each plot separately, add the whole together, and the sum is the contents.

It is to be observed, that all the representations of the foregoing fields are supposed to have straight fences.

It now remains to shew what way irregular or crooked land is measured by dimensions taken on the spot; which is more correct than any other method yet known. The performance is tedious with the very best of instruments, and must also be so where no other instruments are made use of but a simple cross staff, a piece of cord or tape, with a few station-staffs and ten pins.

The adjoining figure ABC has two straight fences and a crooked burn on one side.

Explanation.—Begin at A and measure to C, which is 690 ells long. In measuring that line take offsets into the burn, at 60 or 80 ells distant from one another, and mark each offset carefully down. Set down where you began, for the 1st offset 0 ells—for the 2d, 12—for the 3d, 0—for the 4th, 20 $\frac{1}{2}$ —for the 5th, 36—for the 6th, 90—for the 7th, 102 $\frac{1}{2}$ —for the 8th, 90—for the 9th, 62 $\frac{1}{2}$ —for the 10th, 60 $\frac{1}{2}$ —for the 11th, 20 $\frac{1}{2}$ —for the 12th, 14 $\frac{1}{2}$ —for the 13th, 0. You then measure your perpendicular from the line AC into the corner B, which you find is 290 ells.



N. B. The distances of the offsets should be all set down at the places they are taken at; but for want of room are omitted. The content of the triangle is found out as described in Figure First, p. 12.

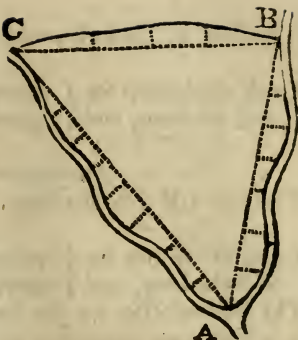
The contents are found out thus :

Offsets.	Ells.					
1.	0	Set down all the offsets twice except the first and last,				
2.	12	and add them all up ; then count the number you have,				
2.	12	which is 24 ; you then divide the amount, which is 1017½				
5.	0	ells, by 24 ; which gives 42 for a mean width, your				
5.	0	length being 690 ells, which is a greater number than				
4.	20½	you have in the Tables. When that happens, you may				
4.	20½	take the half of your length, which is 345 ells ; but you				
5.	56	must double your mean width, which is 84 ells ; then				
5.	56	find the contents thus :				
6.	90					
6.	90	Look at the top for { opposite 80 ells.....	A.	R.	F.	E.
7.	102½	345 ells long, and { opposite 4 ditto.....	4	5	6	24
7.	102½		—	—	36	12
8.	90	Amount of the offsets.....	5	—	5	—
8.	90					
9.	62½					
9.	62½	Then look at the top for the } oppos. 200 is	A.	R.	F.	E.
10.	60½	half of 690 ells, which is } oppos. 90 is	11	3	56	24
10.	60½	345 ells long, and	5	1	22	18
11.	20½					
11.	20½	Amount of the triangle ABC.....	17	1	19	6
12.	14¼	To which add the offsets as above.....	5	—	5	—
12.	14¼					
15.	0	Total amount of the field.....	22	1	24	6

24)1017½(42 mean.

Fig. ABC represents a field that is surrounded by a burn or brook, except on one side, which has a curved fence.

Explanation.—1st. Begin at A and measure to C, which you find is 342 ells, and take offsets as you go on at every 50 or 60 ells; next measure from C to B, 278 ells, and take the offsets as you go on; next measure from B to A, and take the offsets as you go on; then measure a perpendicular from the line AC into the corner B, which is 222 ells.



N. B. The amount of the triangle is found as described in Fig. 1. p. 12.

The contents are found out thus :

Offsets upon AC.	Offsets upon CB.	Offsets upon BA.
1..... 0	1..... 0	1..... 0
2..... 22 $\frac{1}{2}$	2..... 24	2..... 15 $\frac{1}{2}$
2..... 22 $\frac{1}{2}$	2..... 24	2..... 15 $\frac{1}{2}$
3..... 12	3..... 30 $\frac{1}{2}$	3..... 28 $\frac{1}{2}$
3..... 12	3..... 30 $\frac{1}{2}$	3..... 28 $\frac{1}{2}$
4..... 32	4..... 20	4..... 26
4..... 32	4..... 20	4..... 26
5..... 64	5..... 0	5..... 10
5..... 64		5..... 10
6..... 22		6..... 25
6..... 22	8)149(18 $\frac{1}{2}$ mean.	6..... 25
7..... 23 $\frac{1}{2}$		7..... 24 $\frac{1}{2}$
7..... 23 $\frac{1}{2}$		7..... 24 $\frac{1}{2}$
8..... 0		8..... 0
8..... 0		
9..... 0		14)258(18 $\frac{1}{2}$ mean.
16)352(22 mean.		

The line AC 542 ells, and the medium width 22 ells.

	A.	R.	F.	E.
Look at the top for { opposite 20 ells wide is	1	—	30	—
342 ells long, and { opposite 2 ditto is.....	—	—	19	—

Amount of the offsets..... 1 1 19 —

The line CB 278 ells long, and the mean width $18\frac{1}{2}$ ells.

	A.	R.	F.	E.
Look at the top for { opposite 10 ells wide is	—	1	37	8
278 ells long, and { opposite 8 ditto is.....	—	1	21	28
The half of 278, for the half ell, } is 139, and opposite 1 ell is }	—	—	3	31

Amount of the offsets between C and B — 3 22 31

The line BA is 286 ells long, and the mean width of the offsets $18\frac{1}{2}$ ells.

	A.	R.	F.	E.
Look at the top for { opposite 10 ells wide is	—	1	39	16
286 ells long, and { opposite 8 ditto is.....	—	1	25	20
The half of 286 ells is 143 for the } half ell, and opposite 1 ell wide is }	—	—	3	35

Amount of the offsets between A and B — 3 26 35

The amount of the triangle is found thus:

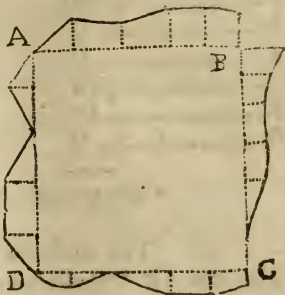
	A.	R.	F.	E.
Look at the top for { opposite 200 ells wide is	5	3	30	—
the half of 342, } opposite 20 ditto is.....	—	2	15	—
which is 171, and { opposite 2 ditto is.....	—	—	9	1

The amount of the triangle ABC.... 6 2 14 18

	A.	R.	F.	E.
Brought forward.....	6	2	14	18
Add the offsets from A to C.....	1	1	9	—
Add the offsets from C to B.....	—	5	22	31
Add the offsets from B to A.....	—	5	26	55
The total content.....	9	2	53	12

We shall next suppose you have a very irregular field to measure, like the figure annexed ABCD, and that the hedges are so high that they cannot be seen over.

Begin at A and measure to B, 450 ells, and take the offsets as before directed; then measure from B to C, 480 ells, and take the offsets; then measure from C to D, 440 ells, and take the offsets; and then from D to A, 460 ells, and take the offsets.



Line AB, 450 Ells.

1. offset.....	0
2.....	80
2.....	80
3.....	$75\frac{1}{4}$
3.....	$75\frac{1}{4}$
4.....	$96\frac{1}{2}$
4.....	$96\frac{1}{2}$
5.....	$100\frac{1}{4}$
5.....	$100\frac{1}{4}$
6.....	74

10)779(78 mean.

Line BC, 480 Ells.

1. offset.....	110
2.....	$74\frac{1}{2}$
2.....	$74\frac{1}{2}$
3.....	$52\frac{1}{4}$
3.....	$52\frac{1}{4}$
4.....	$60\frac{1}{2}$
4.....	$60\frac{1}{2}$
5.....	$52\frac{1}{4}$
5.....	$52\frac{1}{4}$
6.....	0
6.....	0
7.....	0

12)590(49 mean

Line CD, 440 Ells.

1. offset.....	50
2.....	40
2.....	40
3.....	$42\frac{1}{2}$
3.....	$42\frac{1}{2}$
4.....	0
4.....	0
5.....	15
5.....	15
6.....	0

 10)225($22\frac{1}{2}$ mean.

Line DA, 460 Ells.

1. offset.....	0
2.....	60
2.....	60
3.....	62
3.....	62
4.....	0
4.....	0
5.....	$15\frac{1}{2}$
5.....	$15\frac{1}{2}$
6.....	0

 10)275($27\frac{1}{2}$ mean.

The contents of the offsets found thus :

The line AB 450 ells long, and the mean width 78 ells.

	A.	R.	F.	E.
Look at the top for { opposite 70 ells wide is	5	1	35	—
450 ells long, and { opposite 8 ditto is.....	—	2	20	—

 Amount of the offsets between A and B 6 — 15 —

The line BC 480 ells long, and the mean width of the offsets 49 ells.

	A.	R.	F.	E.
Look at the top for { opposite 40 ells wide is	3	1	13	12
480 ells long, and { opposite 9 ditto is.....	—	5	—	—

 Amount of the offsets between B and C 4 — 13 12

The line CD 440 ells long, and the mean of the offsets $22\frac{1}{2}$ ells.

	A.	R.	F.	E.
Look at the top for { opposite 20 ells wide is	1	2	4	16
440 ells long, and { opposite 2 ditto is.....	—	—	24	16
The half of 440 ells is 220 for the half } half ell, and opposite 1 ell wide is }	—	—	6	4
Amount of the offsets between C and D	1	2	35	—

The line DA is 460 ells, and the mean width of the offsets $27\frac{1}{2}$ ells.

	A.	R.	F.	E.
Look at the top for { opposite 20 ells wide is	1	2	15	20
460 ells long, and { opposite 7 ditto is.....	—	2	9	16
The half of 460 is 230 for the half } ell, and opposite 1 ell wide is }	—	—	6	14
Amount of the offsets between D and A	2	—	31	14

The amount of the square ABCD is found in the tables by adding the length of the line AB and CD together, and taking their half for a mean (which is 445 ells in width), and the lines BC and AD added together for a mean length, which is 470 ells long.

The contents are found out thus :

	A.	R.	F.	Γ.
Look into the top for 445 } 400 ells wide is.....	50	5	24	16
ells long, and opposite to } 70 ditto is.....	5	1	25	10
Amount of the square ABCD.....	36	1	9	26

The contents of the square may also be found out by taking a diagonal from A to C, and measuring perpendicular lines from the diagonal into the corners of the field at B and D; take either half the

diagonal and the sum of the perpendiculars, or the whole of the diagonal and half the sum of the perpendiculars, and find the contents out as before directed by the Tables.

The whole must be added together, and the sum is the contents.

	A.	R.	F.	E.
Amount of the square ABCD.....	36	1	9	26
Ditto of the offsets between A and B.....	6	—	15	—
Ditto.....B and C.....	4	—	13	12
Ditto.....C and D.....	1	2	35	—
Ditto.....D and A.....	2	—	51	14
Total amount.....	50	1	24	16

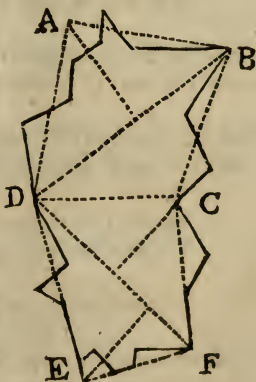
FROM perusing the above method of finding the contents of the offsets, it will appear very troublesome to a learner, although very simple to a person in practice. (It is equally troublesome with the very best of instruments). But as the representation of the fields have been given, and the calculations detailed at full length, a little attention will enable any farmer to measure the whole or any part of his farm, although ever so irregular, and with very great accuracy. It was not intended, when this Work was begun, to go further than to shew the method of making a near guess at the contents, by taking a medium length and breadth, either by pacing the ground, or measuring it with a tape or cord. Even this must have been very satisfactory and entertaining, by enabling a farmer to know how much land was ploughed, harrowed, sown, or cut down in a day; and thence to calculate what time the whole would take to finish, that he might know whether to employ more or fewer hands to assist him to get all finished in proper time. But it was thought, if methods could be fallen upon to give the contents quite correct, it would be a great acquisition. Hence

the reason of introducing the last examples, where offsets must be taken in the field with care. Those that will not be at the trouble of taking every offset, as before described, may have recourse to another method, when the boundaries are supposed to be very irregular, and the fences of such a nature that they may be crossed and recrossed with little difficulty. This method consists in taking in as much from the surrounding fields as you leave out of the field which you are measuring. It is astonishing how near the truth the contents may be obtained in this way.

The figure ABCDEF is supposed to have very crooked marches which you have to measure.

1st. Place a station staff at B and another at D; then go into the adjoining field at A, and move yourself backwards and forwards till you think you take as much from the field you are standing in as you give off the field you are to measure between A and B, and also between A and D, and leave a mark at A: you then go to C, and place yourself so that you think you give as much as you take between C and B, and leave a mark at C. Do the same at CFE and D; leave marks where all the letters are placed, as they have all to be measured into from the diagonals.

You may begin your measure at D, and measure the diagonal to F, which is 500 ells; leave marks upon your diagonal line opposite the corners C and E; you then measure from your mark upon the diagonal into E, which is 204 ells; you then go to your other mark



opposite C, and measure into C, which is 246 ells; you then go to D, and measure the diagonal line to B, which is 580 ells, and leave marks opposite the corners C and A; you then go to your mark opposite A and measure to A, which is 300 ells; you then measure from the other mark you left upon the diagonal line opposite the corner C to C, which is 190 ells.

The contents are found thus:

Half the diagonal FD is 250 ells, and the sum of the perpendiculars E and C are 450 ells.

	A.	R.	F.	E.
Look at the top for { opposite 400 ells wide is	17	1	17	28
250 ells long, and { opposite 50 ditto is.....	2	—	27	8
	<hr/>			
Amount of that part of the field CDEF	19	2	5	—

Half of the diagonal DB is 290 ells, and the sum of the perpendiculars A and C is 490 ells.

	A.	R.	F.	E.
Look at the top for { opposite 400 ells wide is	20	—	22	8
290 ells long, and { opposite 90 ditto is.....	4	2	5	—
	<hr/>			
Amount of that part of the field ABCD	24	2	27	8
Amount of that part of the field CDEF	19	2	5	—
	<hr/>			
Amount of the whole field.....	44	—	32	8

It only remains now to make some general remarks without the figures of fields, as it is presumed every thing has been stated that is

necessary, not only in square ground, but irregular lying fields; and by a little attention the whole will be easily understood.

Suppose there are some clumps of plantings, ponds, knows, roads, burns, or any other pieces of waste land that lie in the field or farm which you want to know the contents of, on purpose to deduct them from the measure.

1st. Suppose a planting, into the inside of which you cannot get for brushwood, &c. Take your cross staff, and place it at a little distance in the field, and take a right angle, and measure a length till you can see nearly square past the planting, and leave a mark, and take offsets into the planting as you measure that length. You next go to where you began, and measure the other side, till such time as you think you are square with the planting; which you can easily know by looking through your cross staff. In measuring that line, take offsets into the planting. You then measure the third line round the planting, and take offsets into the planting. Lastly, measure the fourth line, and make a joining with the mark you left on the first line, and take the offsets.

The contents are found in the Tables by adding the two opposite sides together, and taking the half for a mean, which gives the content of the square; but the offsets must all be deducted, and the remainder is the content of the planting.

Thus your 1st line is 151 ells, and your 1st offset 12 ells—the 2d, 4—the 3d, 0—the 4th, 7—the 5th, 12 ells.

Your 2d line round the planting is 140 ells, the 1st offset 14 ells—the 2d, 5—the 3d, 1—the 4th, 6—the 5th, 15 ells.

The 3d line is 148 ells, and the 1st offset is 10 ells—the 2d, 5—the 3d, 0—the 4th, 5—the 5th, 12 ells.

The 4th line is 142 ells, the 1st offset is 10 ells—the 2d, 4—the 3d, 1—the 4th, 7—the 5th, 11 ells.

The mean of the 1st and 3d line is 150 ells, and the mean of the 2d and 4th line is 141.

		A.	R.	F.	E.
Look at the top of the Tables } for 141 ells, and opposite }	100 ells wide is.....	2	1	31	24
	50 ditto is.....	1	—	35	30
Amount of the square round the planting.....		5	2	27	18

Offsets on the First Line.

0.....	0
1.....	12
1.....	12
2.....	4
2.....	4
3.....	0
3.....	0
4.....	7
4.....	7
5.....	12
5.....	12
0.....	0

12)70(6 mean.

Offsets on the Second Line.

0.....	0
1.....	14
1.....	14
2.....	5
2.....	5
3.....	1
3.....	1
4.....	6
4.....	6
5.....	15
5.....	15
0.....	0

12)78(6½ mean.

Offsets on the Third Line.

0.....	0
1.....	10
1.....	10
2.....	5
2.....	5
3.....	0
3.....	0
4.....	5
4.....	5
5.....	12
5.....	12
0.....	0

Offsets on the Fourth Line.

0.....	0
1.....	10
1.....	10
2.....	4
2.....	4
3.....	1
3.....	1
4.....	7
4.....	7
5.....	11
5.....	11
0.....	0

12)64($5\frac{1}{2}$ mean, nearly.

12)66($5\frac{1}{2}$ mean.

Look into the Table for

	A.	R.	F.	E.
151 ells long, and opposite 6 ells wide is.....	—	—	25	6
140 ells long, and opposite 6 ells wide is.....	—	—	25	12
the half of 140, which is 70 ells, and opposite 1 ell wide is	—	—	1	30
148 ells long, and opposite 5 ells wide is.....	—	—	20	20
the half of 148, which is 74 ells, and opposite 1 ell wide is	—	—	2	2
142 ells long, and opposite 5 ells wide is.....	—	—	19	26
the half of 142, which is 71, and opposite 1 ell wide is	—	—	1	35

Total content of the offsets..... — 2 14 25

Which deduct out of the amount of the square, and
there remains for the amount of the planting..... 5 — 12 31

2d. A pond or loch is measured in the same way, and needs no explanation.

3d. A grass know or hillock is generally measured in the same way; or it may be done by taking the length of it, and the breadth in two or three places, adding them together, and dividing by as many times as you have taken the breadth; which gives a mean; and the contents are found out in the Tables as before directed, by finding out the length, and taking the mean for the breadth.

4th. A road or burn, the content of which is found out by looking for the length at the top of the Tables, and the mean breadth; but it will happen very frequently, that the length of a road or burn will exceed 600 ells. In that case if you divide the length by any number, 2, 5, 4, or more, you must multiply the mean breadth by as many as you have divided the length. For example, if the length of your road should be 1560 ells long, and the breadth 12 ells wide, if you divide 1560 ells by 10, your length will be 156 ells; but the 12 ells mean width of the road must be multiplied by 10, which will make the width 120. Look out for 156 ells at the top of the Tables, and opposite 120 ells wide is the content of the road.

If you should have two, three, four, or more crooked riggs to measure, take the length of the riggs, and several breadths; add the breadths together, and divide them by as many times as you have taken their width (for a mean); The content is found out by looking for the length at the top of the Tables, and for the mean breadth at the side, and opposite it you will see the content. Again, suppose a gentleman has inclosed a farm with hedge and ditch, and he is anxious to know how much land is taken off the farm by inclosing: Measure the width of the fences, which suppose is 2 ells at a medium breadth, the length of the whole fences is 4960 ells long; you

may divide 4960 by 10 ; but you must multiply the 2 ells medium width by 10 which makes 20. At the top of the Tables find out 496 ells long, and opposite 20 ells wide you will find the contents, 1 acre 2 roods 55 falls 20 ells,

Again, suppose both the length and breadth of a field should exceed 600 ells, the content still may be found out by the Tables. First, find out the content of 600 ells long, and the width required, then the content of the part remaining above 600 ells long : the sums added together give the whole content.

Suppose the length of a field should be 1180 ells, and its width 690 ells.

The content is found out thus : Take 600 from 1180, there remain 580.

	A.	R.	F.	E.
1st. Look at the top for 600 } 600 ells wide is.....	62	2	—	—
ells long, and opposite to } 90 ditto is.....	9	1	20	—

The amount of 600 ells long and 690 ells wide.....71 3 20 —

2d. Look at the top for 580 } 600 ells wide is.....	60	1	26	24
ells long, and opposite to } 90 ditto is.....	9	—	10	—

Total amount of a field 1180 ells long and 690 wide 141 1 16 24

N. B. If the ells are more than 1200, you have to double the amount of 600 ells ; if they are more than 1800 ells, you have to triple the amount of 600 ells. If the length should be more than 2400 ells, you multiply the product by 4 ; and so on for any greater number. Suppose 3000, you must multiply by 5, and for 3600 by 6 ; and if there

should be any remainder, it must be estimated by the Tables, and the amount added.

Suppose you had a large muir upon your farm, and you wished to satisfy yourself within a few acres of its contents, by taking the medium length and breadth of the same by stepping. Take the length in two places, and the breadth in three or four; add the two lengths together, and take their half for a mean length, which is 1940 steps, each pace supposed 57 inches; then add the breadths together, and divide the amount by as many times as you have taken the breadth for a mean width; which suppose is 1620 ells.

The contents are found out by the Tables thus :

	A.	R.	F.	E.			
1st. Look at the top for 600 ells long, and opposite to	} 600 ells wide is.....	62	2	—	—		
		} 600 ditto is.....	62	2	—	—	
			} 400 ditto is.....	41	2	26	24
				} 20 ditto is.....	2	—	13
The amount of 600 ells long and 1620 ells wide.....		168	3	—	—		
Add the same amount, gives 1200 ells long.....		168	3	—	—		
Add the same amount, gives 1800 ells long.....		168	3	—	—		
Amount of 1800 ells long and 1620 ells wide.....		506	1	—	—		
2d. Look at the top for 140 ells long, and opposite to	} 600 ells wide is.....	14	2	13	12		
		} 600 ditto is.....	14	2	13	12	
			} 400 ditto is.....	9	2	35	20
				} 20 ditto is.....	—	1	37
Total amount of the muir.....		545	2	20	—		

N. B. The above would be very near the truth, if you were to measure it with the tape, cord, or chain. If your step should be less than one ell of 37 inches, the content of the muir will be fewer acres; if your step should be more than an ell, the content of the muir will be more acres.

Many more examples might be given to find out the amount to a much greater extent by the Tables; but as they are all upon the same principle, it is presumed no more are requisite. The following rule will be found as expeditious as the tables for extensive muirs, or large tracts of uninclosed land.

Method of proving any of the numbers, to ascertain the accuracy of the tables: Multiply the length and breadth together, and divide the product by 5760 (the number of square ells in a Scotch acre), and the quotient gives the number of acres; what remains multiply by 4 (the number of roods in an acre), and the product divided as before by 5760, gives roods; and the remainder multiplied by 40 (the number of falls in a rood), and the product divided as before, gives falls; and the last remainder multiplied by 36 (the number of ells in a fall), and the product divided in like manner by 5760, gives ells.

The following examples will be a sufficient explanation.

Ex. I. 500 ells long, and 400 wide. | Ex. II. 1940 ells long, and 1620 wide.

$$\begin{array}{r} 500 \\ 400 \\ \hline 5760)200000(34 \text{ acres.} \\ 17280 \\ \hline 27200 \\ 23040 \\ \hline 4160 \\ 4 \\ \hline \end{array}$$

5760)16640(2 roods.

$$\begin{array}{r} 11520 \\ \hline 5120 \\ 40 \\ \hline \end{array}$$

5760)204800(35 falls.

$$\begin{array}{r} 17280 \\ \hline 32000 \\ 28800 \\ \hline 3200 \\ 36 \\ \hline 19200 \\ 9600 \\ \hline \end{array}$$

5760)115200(20 ells.

$$\begin{array}{r} 11520 \\ \hline 0 \end{array}$$

$$1940$$

$$1620$$

$$\hline 38800$$

$$11640$$

$$1940$$

5760)3142800(545 acres.

$$28800$$

$$\hline 26280$$

$$23040$$

$$\hline 32400$$

$$28800$$

$$\hline 3600$$

$$4$$

5760)14400(2 roods.

$$11520$$

$$\hline 2880$$

$$40$$

5760)115200(20 falls.

$$11520$$

$$\hline 0$$

Ells Wide	1 Ell Long.				2 Ells Long.				3 Ells Long.				4 Ells Long.				5 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	—	1	—	—	—	2	—	—	—	3	—	—	—	4	—	—	—	5
2	—	—	—	2	—	—	—	4	—	—	—	6	—	—	—	8	—	—	—	10
3	—	—	—	3	—	—	—	6	—	—	—	9	—	—	—	12	—	—	—	15
4	—	—	—	4	—	—	—	8	—	—	—	12	—	—	—	16	—	—	—	20
5	—	—	—	5	—	—	—	10	—	—	—	15	—	—	—	20	—	—	—	25
6	—	—	—	6	—	—	—	12	—	—	—	18	—	—	—	24	—	—	—	30
7	—	—	—	7	—	—	—	14	—	—	—	21	—	—	—	28	—	—	—	35
8	—	—	—	8	—	—	—	16	—	—	—	24	—	—	—	32	—	—	1	4
9	—	—	—	9	—	—	—	18	—	—	—	27	—	—	1	—	—	—	1	9
10	—	—	—	10	—	—	—	20	—	—	—	30	—	—	1	4	—	—	1	14
20	—	—	—	20	—	—	1	4	—	—	1	24	—	—	2	8	—	—	2	28
30	—	—	—	30	—	—	1	24	—	—	2	18	—	—	3	12	—	—	4	6
40	—	—	1	4	—	—	2	8	—	—	3	12	—	—	4	16	—	—	5	20
50	—	—	1	14	—	—	2	28	—	—	4	6	—	—	5	20	—	—	6	34
60	—	—	1	24	—	—	3	12	—	—	5	—	—	—	6	24	—	—	8	12
70	—	—	1	34	—	—	3	32	—	—	5	30	—	—	7	28	—	—	9	26
80	—	—	2	8	—	—	4	16	—	—	6	24	—	—	8	3	—	—	11	4
90	—	—	2	18	—	—	5	—	—	—	7	18	—	—	10	—	—	—	12	18
100	—	—	2	28	—	—	5	20	—	—	8	12	—	—	11	4	—	—	13	32
200	—	—	5	20	—	—	11	4	—	—	16	24	—	—	22	8	—	—	27	28
300	—	—	8	12	—	—	16	24	—	—	25	—	—	—	33	12	—	—	1	1 24
400	—	—	11	4	—	—	22	8	—	—	33	12	—	—	1	4	16	—	1	15 20
500	—	—	13	32	—	—	27	28	—	—	1	1 24	—	—	1	15	20	—	1	29 16
600	—	—	16	24	—	—	33	12	—	—	1	10	—	—	1	26	24	—	2	3 12

From 6 to 10 Ells Long.

Ells Wide.	6 Ells Long.				7 Ells Long.				8 Ells Long.				9 Ells Long.				10 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	—	6	—	—	—	7	—	—	—	8	—	—	—	9	—	—	—	10	
2	—	—	—	12	—	—	—	14	—	—	—	16	—	—	—	18	—	—	—	20	
3	—	—	—	18	—	—	—	21	—	—	—	24	—	—	—	27	—	—	—	30	
4	—	—	—	24	—	—	—	28	—	—	—	32	—	—	1	—	—	—	1	4	
5	—	—	—	30	—	—	—	35	—	—	1	4	—	—	1	9	—	—	1	14	
6	—	—	1	—	—	—	1	6	—	—	1	12	—	—	1	18	—	—	1	24	
7	—	—	1	6	—	—	1	13	—	—	1	20	—	—	1	27	—	—	1	34	
8	—	—	1	12	—	—	1	20	—	—	1	28	—	—	2	—	—	—	2	8	
9	—	—	1	18	—	—	1	27	—	—	2	—	—	—	2	9	—	—	2	18	
10	—	—	1	24	—	—	1	34	—	—	2	8	—	—	2	18	—	—	2	28	
20	—	—	3	12	—	—	3	32	—	—	4	16	—	—	5	—	—	—	5	20	
30	—	—	5	—	—	—	5	30	—	—	6	24	—	—	7	18	—	—	8	12	
40	—	—	6	24	—	—	7	28	—	—	8	32	—	—	10	—	—	—	11	4	
50	—	—	8	12	—	—	9	26	—	—	11	4	—	—	12	18	—	—	13	32	
60	—	—	10	—	—	—	11	24	—	—	13	12	—	—	15	—	—	—	16	24	
70	—	—	11	24	—	—	13	22	—	—	15	20	—	—	17	18	—	—	19	16	
80	—	—	13	12	—	—	15	20	—	—	17	28	—	—	20	—	—	—	22	8	
90	—	—	15	—	—	—	17	18	—	—	20	—	—	—	22	18	—	—	25	—	
100	—	—	16	24	—	—	19	16	—	—	22	8	—	—	25	—	—	—	27	28	
200	—	—	33	12	—	—	38	32	—	1	4	16	—	1	10	—	—	—	1	15	20
300	—	—	1	10	—	—	1	18	12	—	1	26	24	—	1	35	—	—	2	3	12
400	—	—	1	26	24	—	1	37	28	—	2	8	32	—	2	20	—	—	2	31	4
500	—	—	2	3	12	—	2	17	8	—	2	31	4	—	3	5	—	—	3	18	32
600	—	—	2	20	—	—	2	36	24	—	3	13	12	—	3	30	—	1	—	6	24

From 11 to 15 Ells Long.

Ells Wid.	11 Ells Long.				12 Ells Long.				13 Ells Long.				14 Ells Long.				15 Ells Long.						
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.			
1	—	—	—	11	—	—	—	12	—	—	—	13	—	—	—	14	—	—	—	15			
2	—	—	—	22	—	—	—	24	—	—	—	26	—	—	—	28	—	—	—	30			
3	—	—	—	33	—	—	1	—	—	—	1	3	—	—	1	6	—	—	—	1	9		
4	—	—	1	8	—	—	1	12	—	—	1	16	—	—	1	20	—	—	—	1	24		
5	—	—	1	19	—	—	1	24	—	—	1	29	—	—	1	34	—	—	—	2	3		
6	—	—	1	30	—	—	2	—	—	—	2	6	—	—	2	12	—	—	—	2	18		
7	—	—	2	5	—	—	2	12	—	—	2	19	—	—	2	26	—	—	—	2	33		
8	—	—	2	16	—	—	2	24	—	—	2	32	—	—	3	4	—	—	—	3	12		
9	—	—	2	27	—	—	3	—	—	—	3	9	—	—	3	18	—	—	—	3	27		
10	—	—	3	2	—	—	3	12	—	—	3	22	—	—	3	32	—	—	—	4	6		
20	—	—	6	4	—	—	6	24	—	—	7	8	—	—	7	28	—	—	—	8	12		
30	—	—	9	6	—	—	10	—	—	—	10	30	—	—	11	24	—	—	—	12	18		
40	—	—	12	8	—	—	13	12	—	—	14	16	—	—	15	20	—	—	—	16	24		
50	—	—	15	10	—	—	16	24	—	—	18	2	—	—	19	16	—	—	—	20	30		
60	—	—	18	12	—	—	20	—	—	—	21	24	—	—	23	12	—	—	—	25	—		
70	—	—	21	14	—	—	23	12	—	—	25	10	—	—	27	8	—	—	—	29	6		
86	—	—	24	16	—	—	26	24	—	—	28	32	—	—	31	4	—	—	—	33	12		
90	—	—	27	18	—	—	30	—	—	—	32	18	—	—	35	—	—	—	—	37	18		
100	—	—	30	20	—	—	33	12	—	—	36	4	—	—	38	32	—	—	—	1	1	24	
200	—	—	1	21	4	—	1	26	24	—	1	32	8	—	1	37	28	—	—	2	3	12	
300	—	—	2	11	24	—	2	20	—	—	2	28	12	—	2	36	24	—	—	3	5	—	
400	—	—	3	2	8	—	3	13	12	—	3	24	16	—	3	35	20	—	—	1	—	6	24
500	—	—	3	32	28	—	1	—	6	24	1	—	20	20	—	1	—	34	16	1	1	8	12
600	—	—	1	—	23	12	1	1	—	—	1	1	16	24	—	1	1	33	12	1	2	10	—

Ells Wide.	16				17				18				19				20				
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	—	16	—	—	—	17	—	—	—	18	—	—	—	19	—	—	—	20	
2	—	—	—	32	—	—	—	34	—	—	—	36	—	—	1	2	—	—	1	4	
3	—	—	1	12	—	—	1	15	—	—	1	18	—	—	1	21	—	—	1	24	
4	—	—	1	28	—	—	1	32	—	—	2	—	—	—	2	4	—	—	2	8	
5	—	—	2	8	—	—	2	13	—	—	2	18	—	—	2	23	—	—	2	28	
6	—	—	2	24	—	—	2	30	—	—	3	—	—	—	3	6	—	—	3	12	
7	—	—	3	4	—	—	3	11	—	—	3	18	—	—	3	25	—	—	3	32	
8	—	—	3	20	—	—	3	28	—	—	4	—	—	—	4	8	—	—	4	16	
9	—	—	4	—	—	—	4	9	—	—	4	18	—	—	4	27	—	—	5	—	
10	—	—	4	16	—	—	4	26	—	—	5	—	—	—	5	10	—	—	5	20	
20	—	—	8	32	—	—	9	16	—	—	10	—	—	—	10	20	—	—	11	4	
30	—	—	13	12	—	—	14	6	—	—	15	—	—	—	15	30	—	—	16	24	
40	—	—	17	28	—	—	18	32	—	—	20	—	—	—	21	4	—	—	22	8	
50	—	—	22	8	—	—	23	22	—	—	25	—	—	—	26	14	—	—	27	28	
60	—	—	26	24	—	—	28	12	—	—	30	—	—	—	31	24	—	—	33	12	
70	—	—	31	4	—	—	33	2	—	—	35	—	—	—	36	34	—	—	38	32	
80	—	—	35	20	—	—	37	28	—	1	—	—	—	1	2	8	—	—	1	4	16
90	—	1	—	—	—	1	2	18	—	1	5	—	—	—	1	7	18	—	1	10	—
100	—	1	4	16	—	1	7	8	—	1	10	—	—	1	12	28	—	—	1	15	20
200	—	2	8	32	—	2	14	16	—	2	20	—	—	2	25	20	—	—	2	31	4
300	—	3	13	12	—	3	21	24	—	3	30	—	—	3	38	12	1	—	6	24	
400	1	—	17	28	1	—	28	32	1	1	—	—	—	1	1	11	4	1	1	22	8
500	1	1	22	8	1	1	36	4	1	2	10	—	—	1	2	23	32	1	2	37	28
600	1	2	26	24	1	3	3	12	1	3	20	—	—	1	3	36	24	2	—	13	12

Ells Wide.	21 Ells Long.				22 Ells Long.				23 Ells Long.				24 Ells Long.				25 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	—	21	—	—	—	22	—	—	—	23	—	—	—	24	—	—	—	25
2	—	—	1	6	—	—	1	8	—	—	1	10	—	—	1	12	—	—	1	14
3	—	—	1	27	—	—	1	30	—	—	1	33	—	—	2	—	—	—	2	3
4	—	—	2	12	—	—	2	16	—	—	2	20	—	—	2	24	—	—	2	28
5	—	—	2	33	—	—	3	2	—	—	3	7	—	—	3	12	—	—	3	17
6	—	—	3	18	—	—	3	24	—	—	3	30	—	—	4	—	—	—	4	6
7	—	—	4	3	—	—	4	10	—	—	4	17	—	—	4	24	—	—	4	31
8	—	—	4	24	—	—	4	32	—	—	5	4	—	—	5	12	—	—	5	20
9	—	—	5	9	—	—	5	18	—	—	5	27	—	—	6	—	—	—	6	9
10	—	—	5	30	—	—	6	4	—	—	6	14	—	—	6	24	—	—	6	34
20	—	—	11	24	—	—	12	8	—	—	12	28	—	—	13	12	—	—	13	32
30	—	—	17	18	—	—	18	12	—	—	19	6	—	—	20	—	—	—	20	30
40	—	—	23	12	—	—	24	16	—	—	25	20	—	—	26	24	—	—	27	28
50	—	—	29	6	—	—	30	20	—	—	31	34	—	—	33	12	—	—	34	26
60	—	—	35	—	—	—	36	24	—	—	38	12	—	1	—	—	—	—	1	1 24
70	—	1	—	30	—	1	2	28	—	1	4	26	—	1	6	24	—	—	1	8 22
80	—	1	6	24	—	1	8	32	—	1	11	4	—	1	13	12	—	—	1	15 20
90	—	1	12	18	—	1	15	—	—	1	17	18	—	1	20	—	—	—	1	22 18
100	—	1	18	12	—	1	21	4	—	1	23	32	—	1	26	24	—	—	1	29 16
200	—	2	36	24	—	3	2	8	—	3	7	28	—	3	13	12	—	—	3	18 32
300	1	—	15	—	1	—	23	12	1	—	31	24	1	1	—	—	—	—	1	1 8 12
400	1	1	33	12	1	2	4	16	1	2	15	20	1	2	26	24	1	2	37	28
500	1	3	11	24	1	3	25	20	1	3	39	16	2	—	13	12	2	—	27	8
600	2	—	30	—	2	1	6	24	2	1	23	12	2	2	—	—	2	2	16	24

Ells Wide.	26				27				28				29				30			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	—	26	—	—	—	27	—	—	—	28	—	—	—	29	—	—	—	30
2	—	—	1	16	—	—	1	18	—	—	1	20	—	—	1	22	—	—	1	24
3	—	—	2	6	—	—	2	9	—	—	2	12	—	—	2	15	—	—	2	18
4	—	—	2	32	—	—	3	—	—	—	3	4	—	—	3	8	—	—	3	12
5	—	—	3	22	—	—	3	27	—	—	3	32	—	—	4	1	—	—	4	6
6	—	—	4	12	—	—	4	18	—	—	4	24	—	—	4	30	—	—	5	—
7	—	—	5	2	—	—	5	9	—	—	5	16	—	—	5	23	—	—	5	30
8	—	—	5	28	—	—	6	—	—	—	6	8	—	—	6	16	—	—	6	24
9	—	—	6	18	—	—	6	27	—	—	7	—	—	—	7	9	—	—	7	18
10	—	—	7	8	—	—	7	18	—	—	7	28	—	—	8	2	—	—	8	12
20	—	—	14	16	—	—	15	—	—	15	20	—	—	16	4	—	—	16	24	
30	—	—	21	24	—	—	22	18	—	—	23	12	—	—	24	6	—	—	25	—
40	—	—	28	32	—	—	30	—	—	—	31	4	—	—	32	8	—	—	33	12
50	—	—	36	4	—	—	37	18	—	—	38	32	—	1	—	10	—	1	1	24
60	—	1	3	12	—	1	5	—	—	1	6	24	—	1	8	12	—	1	10	—
70	—	1	10	20	—	1	12	18	—	1	14	16	—	1	16	14	—	1	18	12
80	—	1	17	28	—	1	20	—	—	1	22	8	—	1	24	16	—	1	26	24
90	—	1	25	—	—	1	27	18	—	1	30	—	—	1	32	18	—	1	35	—
100	—	1	32	8	—	1	35	—	—	1	37	28	—	2	—	20	—	2	3	12
200	—	3	24	16	—	3	30	—	—	3	35	20	1	—	1	4	1	—	6	24
300	1	1	16	24	1	1	25	—	1	1	33	12	1	2	1	24	1	2	10	—
400	1	3	8	32	1	3	20	—	1	3	31	4	2	—	2	8	2	—	13	12
500	2	1	1	4	2	1	15	—	2	1	28	32	2	2	2	28	2	2	16	24
600	2	2	33	12	2	3	10	—	2	3	26	24	3	—	3	12	3	—	20	—

Ells Wide.	31 Ells Long.				32 Ells Long.				33 Ells Long.				34 Ells Long.				35 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	—	31	—	—	—	32	—	—	—	33	—	—	—	34	—	—	—	35
2	—	—	1	26	—	—	1	28	—	—	1	30	—	—	1	32	—	—	1	34
3	—	—	2	21	—	—	2	24	—	—	2	27	—	—	2	30	—	—	2	33
4	—	—	3	16	—	—	3	20	—	—	3	24	—	—	3	28	—	—	3	32
5	—	—	4	11	—	—	4	16	—	—	4	21	—	—	4	26	—	—	4	31
6	—	—	5	6	—	—	5	12	—	—	5	18	—	—	5	24	—	—	5	30
7	—	—	6	1	—	—	6	8	—	—	6	15	—	—	6	22	—	—	6	29
8	—	—	6	32	—	—	7	4	—	—	7	12	—	—	7	20	—	—	7	28
9	—	—	7	27	—	—	8	—	—	—	8	9	—	—	8	18	—	—	8	27
10	—	—	8	22	—	—	8	32	—	—	9	6	—	—	9	16	—	—	9	26
20	—	—	17	8	—	—	17	28	—	—	18	12	—	—	18	32	—	—	19	16
30	—	—	25	30	—	—	26	24	—	—	27	18	—	—	28	12	—	—	29	6
40	—	—	34	16	—	—	35	20	—	—	36	24	—	—	37	28	—	—	38	32
50	—	1	3	2	—	1	4	16	—	1	5	30	—	1	7	8	—	1	8	22
60	—	1	11	24	—	1	13	12	—	1	15	—	—	1	16	24	—	1	18	12
70	—	1	20	10	—	1	22	8	—	1	24	6	—	1	26	4	—	1	28	2
80	—	1	28	32	—	1	31	4	—	1	33	12	—	1	35	20	—	1	37	28
90	—	1	37	18	—	2	—	—	—	2	2	18	—	2	5	—	—	2	7	18
100	—	2	6	4	—	2	8	32	—	2	11	24	—	2	14	16	—	2	17	8
200	1	—	12	8	1	—	17	28	1	—	23	12	1	—	28	32	1	—	34	16
300	1	2	18	12	1	2	26	24	1	2	35	—	1	3	3	12	1	3	11	24
400	2	—	24	16	2	—	35	20	2	1	6	24	2	1	17	28	2	1	28	32
500	2	2	30	20	2	—	4	16	2	3	18	12	2	3	32	8	3	—	6	4
600	3	—	36	24	3	1	13	12	3	1	30	—	3	2	6	24	3	2	23	12

From 36 to 40 Ells Long.

Ells Wide.	36 Ells Long.				37 Ells Long.				38 Ells Long.				39 Ells Long.				40 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	1	—	—	—	1	1	—	—	1	2	—	—	1	3	—	—	1	4
2	—	—	2	—	—	—	2	2	—	—	2	4	—	—	2	6	—	—	2	8
3	—	—	3	—	—	—	3	3	—	—	3	6	—	—	3	9	—	—	3	12
4	—	—	4	—	—	—	4	4	—	—	4	8	—	—	4	12	—	—	4	16
5	—	—	5	—	—	—	5	5	—	—	5	10	—	—	5	15	—	—	5	20
6	—	—	6	—	—	—	6	6	—	—	6	12	—	—	6	18	—	—	6	24
7	—	—	7	—	—	—	7	7	—	—	7	14	—	—	7	21	—	—	7	28
8	—	—	8	—	—	—	8	8	—	—	8	16	—	—	8	24	—	—	8	32
9	—	—	9	—	—	—	9	9	—	—	9	18	—	—	9	27	—	—	10	—
10	—	—	10	—	—	—	10	10	—	—	10	20	—	—	10	30	—	—	11	4
20	—	—	20	—	—	—	20	20	—	—	21	4	—	—	21	24	—	—	22	8
30	—	—	30	—	—	—	30	30	—	—	31	24	—	—	32	18	—	—	33	12
40	—	1	—	—	—	1	1	4	—	1	2	8	—	1	3	12	—	1	4	16
50	—	1	10	—	—	1	11	14	—	1	12	28	—	1	14	6	—	1	15	20
60	—	1	20	—	—	1	21	24	—	1	23	12	—	1	25	—	—	1	26	24
70	—	1	30	—	—	1	31	34	—	1	33	32	—	1	35	30	—	1	37	28
80	—	2	—	—	—	2	2	8	—	2	4	16	—	2	6	24	—	2	8	32
90	—	2	10	—	—	2	12	18	—	2	15	—	—	2	17	18	—	2	20	—
100	—	2	20	—	—	2	22	28	—	2	25	20	—	2	28	12	—	2	31	4
200	1	1	—	—	1	1	5	20	1	1	11	4	1	1	16	24	1	1	22	8
300	1	3	20	—	1	3	28	12	1	3	36	24	2	—	5	—	2	—	13	12
400	2	2	—	—	2	2	11	4	2	2	22	8	2	2	33	12	2	3	4	16
500	3	—	20	—	3	—	33	12	3	1	7	28	3	1	21	24	3	1	35	20
600	3	3	—	—	3	3	16	24	3	3	33	12	4	—	10	—	4	—	26	24

Ells Wide.	41 Ells Long.				42 Ells Long.				43 Ells Long.				44 Ells Long.				45 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	1	5	—	—	1	6	—	—	1	7	—	—	1	8	—	—	1	9
2	—	—	2	10	—	—	2	12	—	—	2	14	—	—	2	16	—	—	2	18
3	—	—	3	15	—	—	3	18	—	—	3	21	—	—	3	24	—	—	3	27
4	—	—	4	20	—	—	4	24	—	—	4	28	—	—	4	32	—	—	5	—
5	—	—	5	25	—	—	5	30	—	—	5	35	—	—	6	4	—	—	6	9
6	—	—	6	30	—	—	7	—	—	—	7	6	—	—	7	12	—	—	7	18
7	—	—	7	35	—	—	8	6	—	—	8	13	—	—	8	20	—	—	8	27
8	—	—	9	4	—	—	9	12	—	—	9	20	—	—	9	28	—	—	10	—
9	—	—	10	9	—	—	10	18	—	—	10	27	—	—	11	—	—	—	11	9
10	—	—	11	14	—	—	11	24	—	—	11	34	—	—	12	8	—	—	12	18
20	—	—	22	28	—	—	23	12	—	—	23	32	—	—	24	16	—	—	25	—
30	—	—	34	6	—	—	35	—	—	—	35	30	—	—	36	24	—	—	37	18
40	—	1	5	20	—	1	6	24	—	1	7	28	—	1	8	32	—	1	10	—
50	—	1	16	34	—	1	18	12	—	1	19	26	—	1	21	4	—	1	22	18
60	—	1	28	12	—	1	30	—	—	1	31	24	—	1	33	12	—	1	35	—
70	—	1	39	26	—	2	1	24	—	2	3	22	—	2	5	20	—	2	7	18
80	—	2	11	4	—	2	13	12	—	2	15	20	—	2	17	28	—	2	20	—
90	—	2	22	18	—	2	25	—	—	2	27	18	—	2	30	—	—	2	32	18
100	—	2	33	32	—	2	36	24	—	2	39	16	—	3	2	8	—	3	5	—
200	1	1	27	28	1	1	33	12	1	1	38	32	1	2	4	16	1	2	10	—
300	2	—	21	24	2	—	30	—	2	—	38	12	2	1	6	24	2	1	15	—
400	2	3	15	20	2	3	26	24	2	3	37	28	3	—	8	32	3	—	20	—
500	3	2	9	16	3	2	23	12	3	2	37	8	3	3	11	4	3	3	25	—
600	4	1	3	12	4	1	20	—	4	1	36	24	4	2	13	12	4	2	30	—

Ells Wide.	46 Ells Long.				47 Ells Long.				48 Ells Long.				49 Ells Long.				50 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	1	10	—	—	1	11	—	—	1	12	—	—	1	13	—	—	1	14
2	—	—	2	20	—	—	2	22	—	—	2	24	—	—	2	26	—	—	2	28
3	—	—	3	30	—	—	3	33	—	—	4	—	—	—	4	3	—	—	4	6
4	—	—	5	4	—	—	5	8	—	—	5	12	—	—	5	16	—	—	5	20
5	—	—	6	14	—	—	6	19	—	—	6	24	—	—	6	29	—	—	6	34
6	—	—	7	24	—	—	7	30	—	—	8	—	—	—	8	6	—	—	8	12
7	—	—	8	34	—	—	8	5	—	—	8	12	—	—	8	19	—	—	8	26
8	—	—	10	8	—	—	10	16	—	—	10	24	—	—	10	32	—	—	11	4
9	—	—	11	18	—	—	11	27	—	—	12	—	—	—	12	9	—	—	12	18
10	—	—	12	28	—	—	13	2	—	—	13	12	—	—	13	22	—	—	13	32
20	—	—	25	20	—	—	26	4	—	—	26	24	—	—	27	8	—	—	27	28
30	—	—	38	12	—	—	39	6	—	1	—	—	—	1	—	30	—	1	1	24
40	—	1	11	4	—	1	12	8	—	1	13	12	—	1	14	16	—	1	15	20
50	—	1	23	32	—	1	25	10	—	1	26	24	—	1	28	2	—	1	29	10
60	—	1	36	24	—	1	38	12	—	2	—	—	—	2	1	24	—	2	3	12
70	—	2	9	16	—	2	11	14	—	2	13	12	—	2	15	10	—	2	17	8
80	—	2	22	8	—	2	24	16	—	2	26	24	—	2	28	32	—	2	31	4
90	—	2	35	—	—	2	37	18	—	3	—	—	—	3	2	18	—	3	5	—
100	—	3	7	28	—	3	10	20	—	3	13	12	—	3	16	4	—	3	18	32
200	1	2	15	20	1	2	21	4	1	2	26	24	1	2	32	8	1	2	37	28
300	2	1	23	12	2	1	31	24	2	2	—	—	2	2	8	12	2	2	16	24
400	3	—	31	4	3	1	2	8	3	1	13	12	3	1	24	16	3	1	35	20
500	3	3	38	32	4	—	12	28	4	—	26	24	4	1	—	20	4	1	14	16
600	4	3	6	24	4	3	23	12	5	—	—	—	5	—	16	24	5	—	33	12

Ells Wide.	51 Ells Long.				52 Ells Long.				53 Ells Long.				54 Ells Long.				55 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	1	15	—	—	1	16	—	—	1	17	—	—	1	18	—	—	1	19		
2	—	—	2	30	—	—	2	32	—	—	2	34	—	—	3	—	—	—	3	2		
3	—	—	4	9	—	—	4	12	—	—	4	15	—	—	4	18	—	—	4	21		
4	—	—	5	24	—	—	5	28	—	—	5	32	—	—	6	—	—	—	6	4		
5	—	—	7	3	—	—	7	8	—	—	7	13	—	—	7	18	—	—	7	23		
6	—	—	8	18	—	—	8	24	—	—	8	30	—	—	9	—	—	—	9	6		
7	—	—	9	33	—	—	10	4	—	—	10	11	—	—	10	18	—	—	10	25		
8	—	—	11	12	—	—	11	20	—	—	11	28	—	—	12	—	—	—	12	8		
9	—	—	12	27	—	—	13	—	—	—	13	9	—	—	13	18	—	—	13	27		
10	—	—	14	6	—	—	14	16	—	—	14	26	—	—	15	—	—	—	15	10		
20	—	—	28	12	—	—	28	32	—	—	29	16	—	—	30	—	—	—	30	20		
30	—	1	2	18	—	1	3	12	—	1	4	6	—	1	5	—	—	—	1	5	30	
40	—	1	16	24	—	1	17	28	—	1	18	32	—	1	20	—	—	—	1	21	4	
50	—	1	30	30	—	1	32	8	—	1	33	22	—	1	35	—	—	—	1	36	14	
60	—	2	5	—	—	2	6	24	—	2	8	12	—	2	10	—	—	—	2	11	24	
70	—	2	19	6	—	2	21	4	—	2	23	2	—	2	25	—	—	—	2	26	34	
80	—	2	33	12	—	2	35	20	—	2	37	28	—	3	—	—	—	—	3	2	8	
90	—	3	7	18	—	3	10	—	—	3	12	18	—	3	15	—	—	—	3	17	18	
100	—	3	21	24	—	3	24	16	—	3	27	8	—	3	30	—	—	—	3	32	28	
200	1	3	3	12	1	3	8	32	1	3	14	16	1	3	20	—	—	—	1	3	25	20
300	2	2	25	—	2	2	33	12	2	3	1	24	2	3	10	—	—	—	2	3	18	12
400	3	2	6	24	3	2	17	28	3	2	28	32	3	3	—	—	—	—	3	3	11	4
500	4	1	28	12	4	2	2	8	4	2	16	4	4	2	30	—	—	—	4	3	3	32
600	5	1	10	—	5	1	26	24	5	2	3	12	5	2	20	—	—	—	5	2	36	24

Ells Wide.	56				57				58				59				60			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	1	20	—	—	1	21	—	—	1	22	—	—	1	23	—	—	1	24
2	—	—	3	4	—	—	3	6	—	—	3	8	—	—	3	10	—	—	3	12
3	—	—	4	24	—	—	4	27	—	—	4	30	—	—	4	33	—	—	4	—
4	—	—	6	8	—	—	6	12	—	—	6	16	—	—	6	20	—	—	6	24
5	—	—	7	28	—	—	7	33	—	—	8	2	—	—	8	7	—	—	8	12
6	—	—	9	12	—	—	9	18	—	—	9	24	—	—	9	30	—	—	10	—
7	—	—	10	32	—	—	11	3	—	—	11	10	—	—	11	17	—	—	11	24
8	—	—	12	16	—	—	12	24	—	—	12	32	—	—	13	4	—	—	13	12
9	—	—	14	—	—	—	14	9	—	—	14	18	—	—	14	27	—	—	15	—
10	—	—	15	20	—	—	15	30	—	—	16	4	—	—	16	14	—	—	16	24
20	—	—	31	4	—	—	31	24	—	—	32	8	—	—	32	28	—	—	33	12
30	—	1	6	24	—	1	7	18	—	1	8	12	—	1	9	6	—	1	10	—
40	—	1	22	8	—	1	23	12	—	1	24	16	—	1	25	20	—	1	26	24
50	—	1	37	28	—	1	39	6	—	2	—	20	—	2	1	34	—	2	3	12
60	—	2	13	12	—	2	15	—	—	2	16	24	—	2	18	12	—	2	20	—
70	—	2	28	32	—	2	30	30	—	2	32	28	—	2	34	26	—	2	36	24
80	—	3	4	16	—	3	6	24	—	3	8	32	—	3	11	4	—	3	13	12
90	—	3	20	—	—	3	22	18	—	3	25	—	—	3	27	18	—	3	30	—
100	—	3	35	20	—	3	38	12	1	—	1	4	1	—	3	32	1	—	6	24
200	1	3	31	4	1	3	36	24	2	—	2	8	2	—	7	28	2	—	13	12
300	2	3	26	24	2	3	35	—	3	—	3	12	3	—	11	24	3	—	20	—
400	3	3	22	8	3	3	33	12	4	—	4	16	4	—	15	20	4	—	26	24
500	4	3	17	28	4	3	31	24	5	—	5	20	5	—	19	16	5	—	33	12
600	5	3	13	12	5	3	30	—	6	—	6	24	6	—	23	12	6	1	—	—

Ells Wide	61 Ells Long.				62 Ells Long.				63 Ells Long.				64 Ells Long.				65 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	1	25	—	—	1	26	—	—	1	27	—	—	1	28	—	—	1	29		
2	—	—	3	14	—	—	3	16	—	—	3	18	—	—	3	20	—	—	3	22		
3	—	—	5	3	—	—	5	6	—	—	5	9	—	—	5	12	—	—	5	15		
4	—	—	6	28	—	—	6	32	—	—	7	—	—	—	7	4	—	—	7	8		
5	—	—	8	17	—	—	8	22	—	—	8	27	—	—	8	32	—	—	9	1		
6	—	—	10	6	—	—	10	12	—	—	10	18	—	—	10	24	—	—	10	30		
7	—	—	11	31	—	—	12	2	—	—	12	9	—	—	12	16	—	—	12	23		
8	—	—	13	20	—	—	13	28	—	—	14	—	—	—	14	8	—	—	14	16		
9	—	—	15	9	—	—	15	18	—	—	15	27	—	—	16	—	—	—	16	9		
10	—	—	16	34	—	—	17	8	—	—	17	18	—	—	17	28	—	—	18	2		
20	—	—	33	32	—	—	34	16	—	—	35	—	—	—	35	20	—	—	36	4		
30	—	1	10	30	—	1	11	24	—	1	12	18	—	1	13	12	—	—	1	14	6	
40	—	1	27	28	—	1	28	32	—	1	30	—	—	1	31	4	—	—	1	32	8	
50	—	2	4	26	—	2	6	4	—	2	7	18	—	2	8	32	—	—	2	10	10	
60	—	2	21	24	—	2	23	12	—	2	25	—	—	2	26	24	—	—	2	28	12	
70	—	2	38	22	—	3	—	20	—	3	2	18	—	3	4	16	—	—	3	6	14	
80	—	3	15	20	—	3	17	28	—	3	20	—	—	3	22	8	—	—	3	24	16	
90	—	3	32	18	—	3	35	—	—	3	37	18	1	—	—	—	—	—	1	—	2	18
100	1	—	9	16	1	—	12	8	1	—	15	—	1	—	17	28	1	—	20	20		
200	2	—	18	32	2	—	24	16	2	—	30	—	2	—	35	20	2	1	1	4		
300	3	—	28	12	3	—	36	24	3	1	5	—	3	1	13	12	3	1	21	24		
400	4	—	37	28	4	1	8	32	4	1	20	—	4	1	31	4	4	2	2	8		
500	5	1	7	8	5	1	21	4	5	1	35	—	5	2	8	32	5	2	22	28		
600	6	1	16	24	6	1	33	12	6	2	10	—	6	2	26	24	6	3	3	12		

Ells Wide.	66 Ells Long.				67 Ells Long.				68 Ells Long.				69 Ells Long.				70 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	1	30	—	—	1	31	—	—	1	32	—	—	1	33	—	—	1	34	
2	—	—	3	24	—	—	3	26	—	—	3	28	—	—	3	30	—	—	3	32	
3	—	—	5	18	—	—	5	21	—	—	5	24	—	—	5	27	—	—	5	30	
4	—	—	7	12	—	—	7	16	—	—	7	20	—	—	7	24	—	—	7	28	
5	—	—	9	6	—	—	9	11	—	—	9	16	—	—	9	21	—	—	9	26	
6	—	—	11	—	—	—	11	6	—	—	11	12	—	—	11	18	—	—	11	24	
7	—	—	12	30	—	—	13	1	—	—	13	8	—	—	13	15	—	—	13	22	
8	—	—	14	24	—	—	14	32	—	—	15	4	—	—	15	12	—	—	15	20	
9	—	—	16	18	—	—	16	27	—	—	17	—	—	—	17	9	—	—	17	18	
10	—	—	18	12	—	—	18	22	—	—	18	32	—	—	19	6	—	—	19	16	
20	—	—	36	24	—	—	37	8	—	—	37	28	—	—	38	12	—	—	38	32	
30	—	1	15	—	—	1	15	30	—	1	16	24	—	1	17	18	—	—	1	18	12
40	—	1	33	12	—	1	34	16	—	1	35	20	—	1	36	24	—	—	1	37	28
50	—	2	11	24	—	2	13	2	—	2	14	16	—	2	15	30	—	—	2	17	8
60	—	2	30	—	—	2	31	24	—	2	33	12	—	2	35	—	—	—	2	36	24
70	—	3	8	12	—	3	10	10	—	3	12	8	—	3	14	6	—	—	3	16	4
80	—	3	26	24	—	3	28	32	—	3	31	4	—	3	33	12	—	—	3	35	20
90	1	—	5	—	1	—	7	18	1	—	10	—	1	—	12	18	1	—	15	—	—
100	1	—	23	12	1	—	26	4	1	—	28	32	1	—	31	24	1	—	34	16	—
200	2	1	6	24	2	1	12	8	2	1	17	28	2	1	23	12	2	1	28	32	—
300	3	1	30	—	3	1	38	12	3	2	6	24	3	2	15	—	3	1	23	12	—
400	4	2	13	12	4	2	24	16	4	2	35	20	4	3	6	24	4	3	17	28	—
500	5	2	36	24	5	3	10	20	5	3	24	16	5	3	38	12	6	—	12	8	—
600	6	3	20	—	6	3	36	24	7	—	18	12	7	—	30	—	7	1	6	24	—

Ells wide.	71				72				73				74				75				
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	1	35	—	—	2	—	—	—	1	1	—	—	2	2	—	—	2	3	
2	—	—	3	34	—	—	4	—	—	—	4	2	—	—	4	4	—	—	4	6	
3	—	—	5	33	—	—	6	—	—	—	6	3	—	—	6	6	—	—	6	9	
4	—	—	7	32	—	—	8	—	—	—	8	4	—	—	8	8	—	—	8	12	
5	—	—	9	31	—	—	9	—	—	—	9	5	—	—	9	10	—	—	9	15	
6	—	—	11	30	—	—	12	—	—	—	12	6	—	—	12	12	—	—	12	18	
7	—	—	13	29	—	—	14	—	—	—	14	7	—	—	14	14	—	—	14	21	
8	—	—	15	28	—	—	16	—	—	—	16	8	—	—	16	16	—	—	16	24	
9	—	—	17	27	—	—	18	—	—	—	18	9	—	—	18	18	—	—	18	27	
10	—	—	19	26	—	—	20	—	—	—	20	10	—	—	20	20	—	—	20	30	
20	—	—	39	16	—	1	—	—	—	1	—	20	—	1	1	4	—	1	1	24	
30	—	1	19	6	—	1	20	—	—	1	20	30	—	1	21	24	—	1	22	18	
40	—	1	38	32	—	2	—	—	—	2	1	4	—	2	2	8	—	2	3	12	
50	—	2	18	22	—	2	20	—	—	2	21	14	—	2	22	28	—	2	24	6	
60	—	2	38	12	—	3	—	—	—	3	1	24	—	3	3	12	—	3	5	—	
70	—	3	18	2	—	3	20	—	—	3	21	34	—	3	23	32	—	3	25	30	
80	—	3	37	28	1	—	—	—	—	1	—	2	8	1	—	4	16	1	—	6	24
90	1	—	17	18	1	—	20	—	—	1	—	22	18	1	—	25	—	1	—	27	18
100	1	—	37	8	1	1	—	—	—	1	1	2	28	1	1	5	20	1	1	8	12
200	2	1	34	16	2	2	—	—	—	2	2	5	20	2	2	11	4	2	2	16	24
300	3	2	31	24	3	3	—	—	—	3	3	8	12	3	3	16	24	3	3	25	—
400	4	3	28	32	5	—	—	—	—	5	—	11	4	5	—	22	8	5	—	33	12
500	6	—	26	4	6	1	—	—	—	6	1	13	32	6	1	27	28	6	2	1	24
600	7	1	23	12	7	2	—	—	—	7	2	16	24	7	2	33	12	7	3	10	—

Ells Wide	76 Ells Long.				77 Ells Long.				78 Ells Long.				79 Ells Long.				80 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	2	4	—	—	2	5	—	—	2	6	—	—	2	7	—	—	2	8	
2	—	—	4	8	—	—	4	10	—	—	4	12	—	—	4	14	—	—	4	16	
3	—	—	6	12	—	—	6	15	—	—	6	18	—	—	6	21	—	—	6	24	
4	—	—	8	16	—	—	8	20	—	—	8	24	—	—	8	28	—	—	8	32	
5	—	—	9	20	—	—	9	25	—	—	9	30	—	—	9	35	—	—	10	4	
6	—	—	12	24	—	—	12	30	—	—	13	—	—	—	13	6	—	—	13	12	
7	—	—	14	28	—	—	14	35	—	—	15	6	—	—	15	13	—	—	15	20	
8	—	—	16	32	—	—	17	4	—	—	17	12	—	—	17	20	—	—	17	28	
9	—	—	19	—	—	—	19	9	—	—	19	18	—	—	19	27	—	—	20	—	
10	—	—	21	4	—	—	21	14	—	—	21	24	—	—	21	34	—	—	22	8	
20	—	1	2	8	—	1	2	28	—	1	3	12	—	1	3	32	—	—	1	4	16
30	—	1	23	12	—	1	24	6	—	1	25	—	—	1	25	30	—	—	1	26	24
40	—	2	4	16	—	2	5	20	—	2	26	24	—	2	7	28	—	—	2	8	32
50	—	2	25	20	—	2	26	34	—	2	28	12	—	2	29	26	—	—	2	31	4
60	—	3	6	24	—	3	8	12	—	3	10	—	—	3	11	24	—	—	3	13	12
70	—	3	27	28	—	3	29	26	—	3	31	24	—	3	33	22	—	—	3	35	20
80	1	—	8	32	1	—	11	4	1	—	13	12	1	—	15	20	1	—	17	28	
90	1	—	30	—	1	—	32	18	1	—	35	—	1	—	37	18	1	—	1	—	—
100	1	1	11	4	1	1	13	32	1	1	16	24	1	1	19	16	1	1	22	8	
200	2	2	22	8	2	2	27	28	2	2	33	12	2	2	38	32	2	3	4	16	
300	3	3	33	12	4	—	1	24	4	—	10	—	4	—	18	12	4	—	26	24	
400	5	1	4	16	5	1	15	20	5	1	26	24	5	1	37	28	5	2	8	32	
500	6	2	15	20	6	2	29	16	6	3	3	12	6	3	17	8	6	3	31	4	
600	7	3	26	24	8	—	3	12	8	—	20	—	8	—	36	24	8	1	13	12	

Ells Wide.	81 Ells Long.				82 Ells Long.				83 Ells Long.				84 Ells Long.				85 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	2	9	—	—	2	10	—	—	2	11	—	—	2	12	—	—	2	13
2	—	—	4	18	—	—	4	20	—	—	4	22	—	—	4	24	—	—	4	26
3	—	—	6	27	—	—	6	30	—	—	6	33	—	—	7	—	—	—	7	3
4	—	—	9	—	—	—	9	4	—	—	9	8	—	—	9	12	—	—	9	16
5	—	—	11	9	—	—	11	14	—	—	11	19	—	—	11	24	—	—	11	29
6	—	—	13	18	—	—	13	24	—	—	13	30	—	—	14	—	—	—	14	6
7	—	—	15	27	—	—	15	34	—	—	16	5	—	—	16	12	—	—	16	19
8	—	—	18	—	—	—	18	8	—	—	18	16	—	—	18	24	—	—	18	32
9	—	—	20	9	—	—	20	18	—	—	20	27	—	—	21	—	—	—	21	9
10	—	—	22	18	—	—	22	28	—	—	23	2	—	—	23	12	—	—	23	22
20	—	1	5	—	—	1	5	20	—	1	6	4	—	1	6	24	—	1	7	8
30	—	1	27	18	—	1	28	12	—	1	29	6	—	1	30	—	—	1	30	30
40	—	2	10	—	—	2	11	4	—	2	12	8	—	2	13	12	—	2	14	16
50	—	2	32	18	—	2	33	32	—	2	35	10	—	2	36	24	—	2	38	2
60	—	3	15	—	—	3	16	24	—	3	18	12	—	3	20	—	—	3	21	24
70	—	3	37	18	—	3	39	16	1	—	1	14	1	—	3	12	1	—	5	10
80	1	—	20	—	1	—	22	8	1	—	24	16	1	—	26	24	1	—	28	32
90	1	1	2	18	1	1	5	—	1	1	7	18	1	1	10	—	1	1	12	18
100	1	1	25	—	1	1	27	28	1	1	30	20	1	1	33	12	1	1	36	4
200	2	3	10	—	2	3	15	20	2	3	21	4	2	3	26	24	2	3	32	8
300	4	—	35	—	4	1	3	12	4	1	11	24	4	1	20	—	4	1	28	12
400	5	2	20	—	5	2	31	4	5	3	2	8	5	3	13	12	5	3	24	16
500	7	—	5	—	7	—	18	32	7	—	32	28	7	1	6	24	7	1	20	20
600	8	1	30	—	8	2	6	24	8	2	23	12	8	3	—	—	8	3	16	24

From 86 to 90 Ells Long.

Ells Wide.	86 Ells Long.				87 Ells Long.				88 Ells Long.				89 Ells Long.				90 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	P.	F.	E.	A.	R.	F.	E.
1	—	—	2	14	—	—	2	15	—	—	2	16	—	—	2	17	—	—	2	18
2	—	—	4	28	—	—	4	30	—	—	4	32	—	—	4	34	—	—	5	—
3	—	—	7	6	—	—	7	9	—	—	7	12	—	—	7	15	—	—	7	18
4	—	—	9	20	—	—	9	24	—	—	9	28	—	—	9	32	—	—	10	—
5	—	—	11	34	—	—	12	3	—	—	12	8	—	—	12	13	—	—	12	18
6	—	—	14	12	—	—	14	18	—	—	14	24	—	—	14	30	—	—	15	—
7	—	—	16	26	—	—	16	33	—	—	17	4	—	—	17	11	—	—	17	18
8	—	—	19	4	—	—	19	12	—	—	19	20	—	—	19	28	—	—	20	—
9	—	—	21	18	—	—	21	27	—	—	22	—	—	—	22	9	—	—	22	18
10	—	—	23	32	—	—	24	6	—	—	24	16	—	—	24	26	—	—	25	—
20	—	1	7	2	—	1	8	12	—	1	8	32	—	1	9	16	—	1	10	—
30	—	1	31	24	—	1	32	18	—	1	33	12	—	1	34	6	—	1	35	—
40	—	2	15	20	—	2	16	24	—	2	17	28	—	2	18	32	—	2	20	—
50	—	2	39	16	—	3	—	30	—	3	2	8	—	3	3	22	—	3	5	—
60	—	3	23	12	—	3	25	—	—	3	26	24	—	3	28	12	—	3	30	—
70	1	—	7	8	1	—	9	6	1	—	11	4	1	—	13	2	1	—	15	—
80	1	—	31	4	1	—	33	12	1	—	35	20	1	—	37	28	1	1	—	—
90	1	—	15	—	1	1	17	18	1	1	20	—	1	1	22	18	1	1	25	—
100	1	1	38	32	1	2	1	24	1	2	4	16	1	2	7	8	1	2	10	—
200	2	3	37	28	3	—	3	12	3	—	8	32	3	—	14	16	3	—	20	—
300	4	1	36	24	4	2	5	—	4	2	13	12	4	2	21	24	4	2	30	—
400	5	3	35	20	6	—	6	24	6	—	17	28	6	—	28	32	6	1	—	—
500	7	1	34	16	7	2	8	12	7	2	22	8	7	2	36	4	7	3	10	—
600	8	3	33	12	9	—	10	—	9	—	26	24	9	1	3	12	9	1	20	—

Ells Wide.	91 Ells Long.				92 Ells Long.				93 Ells Long.				94 Ells Long.				95 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	2	19	—	—	2	20	—	—	2	21	—	—	2	22	—	—	2	23
2	—	—	5	2	—	—	5	4	—	—	5	6	—	—	5	8	—	—	5	10
3	—	—	7	21	—	—	7	24	—	—	7	27	—	—	7	30	—	—	7	33
4	—	—	10	4	—	—	10	8	—	—	10	12	—	—	10	16	—	—	10	20
5	—	—	12	23	—	—	12	28	—	—	12	33	—	—	13	2	—	—	13	7
6	1	—	15	6	—	—	15	12	—	—	15	18	—	—	15	24	—	—	15	30
7	—	—	17	25	—	—	18	32	—	—	18	3	—	—	18	10	—	—	18	17
8	—	—	20	8	—	—	20	16	—	—	20	24	—	—	20	32	—	—	21	4
9	—	—	22	27	—	—	23	—	—	—	23	9	—	—	23	18	—	—	23	27
10	—	—	25	10	—	—	25	20	—	—	25	30	—	—	26	4	—	—	26	14
20	—	1	10	20	—	1	11	4	—	1	11	24	—	1	12	8	—	1	12	28
30	—	1	35	30	—	1	36	24	—	1	37	18	—	1	38	12	—	1	39	6
40	—	2	21	4	—	2	22	8	—	2	23	12	—	2	24	16	—	2	25	20
50	—	3	6	14	—	3	7	28	—	3	9	6	—	3	10	20	—	3	11	34
60	—	3	31	24	—	3	33	12	—	3	35	—	—	3	36	24	—	3	38	12
70	1	—	16	34	1	—	18	32	1	—	20	30	1	—	22	28	1	—	24	26
80	1	1	2	8	1	1	4	16	1	1	6	24	1	1	8	32	1	1	11	4
90	1	1	27	18	1	1	30	—	1	1	32	18	1	1	35	—	1	1	37	18
100	1	2	12	28	1	2	15	20	1	2	18	12	1	2	21	4	1	2	23	32
200	3	—	25	20	3	—	31	4	3	—	36	24	3	1	2	8	3	1	7	28
300	4	2	38	12	4	3	6	24	4	3	15	—	4	3	23	12	4	3	31	24
400	6	1	11	4	6	1	22	8	6	1	33	12	6	2	4	16	6	2	15	20
500	7	3	23	32	7	3	37	28	8	—	11	24	8	—	25	20	8	—	39	16
600	9	1	36	24	9	2	13	12	9	2	30	—	9	3	6	24	9	3	23	12

From 96 to 100 Ells Long.

Ells Wide.	96 Ells Long.				97 Ells Long.				98 Ells Long.				99 Ells Long.				100 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	2	24	—	—	2	25	—	—	2	26	—	—	2	27	—	—	2	28
2	—	—	5	12	—	—	5	14	—	—	5	16	—	—	5	18	—	—	5	20
3	—	—	8	—	—	—	8	3	—	—	8	6	—	—	8	9	—	—	8	12
4	—	—	10	24	—	—	10	28	—	—	10	32	—	—	11	—	—	—	11	4
5	—	—	13	12	—	—	13	17	—	—	13	22	—	—	13	27	—	—	13	32
6	—	—	16	—	—	—	16	6	—	—	16	12	—	—	16	18	—	—	16	24
7	—	—	18	24	—	—	18	31	—	—	19	2	—	—	19	9	—	—	19	16
8	—	—	21	12	—	—	21	20	—	—	21	28	—	—	22	—	—	—	22	8
9	—	—	24	—	—	—	24	9	—	—	24	18	—	—	24	27	—	—	25	—
10	—	—	26	24	—	—	26	34	—	—	27	8	—	—	27	18	—	—	27	28
20	—	1	13	12	—	1	13	32	—	1	14	16	—	1	15	—	—	1	15	20
30	—	2	—	—	—	2	—	30	—	2	1	24	—	2	2	18	—	2	3	12
40	—	2	26	24	—	2	27	28	—	2	28	32	—	2	30	—	—	2	31	4
50	—	3	13	12	—	3	14	26	—	3	16	4	—	3	17	18	—	3	18	32
60	1	—	—	—	1	—	1	24	1	—	3	12	1	—	5	—	1	—	6	24
70	1	—	26	24	1	—	28	22	1	—	30	20	1	—	32	18	1	—	34	16
80	1	1	13	12	1	1	15	20	1	1	17	28	1	1	20	—	1	1	22	8
90	1	2	—	—	1	2	2	18	1	2	5	—	1	2	7	18	1	2	10	—
100	1	2	26	24	1	2	29	16	1	2	32	8	1	2	35	—	1	2	37	28
200	3	1	13	12	3	1	18	32	3	1	24	16	3	1	30	—	3	1	35	20
300	5	—	—	—	5	—	8	12	5	—	16	24	5	—	25	—	5	—	33	12
400	6	2	26	24	6	2	37	28	6	3	8	32	6	3	20	—	6	3	31	4
500	8	1	13	12	8	1	27	8	8	2	1	4	8	2	15	—	8	2	28	32
600	10	—	—	—	10	—	16	24	10	—	33	12	10	1	10	—	10	1	26	24

El's Widc.	101 Ells Long.				102 Ells Long.				103 Ells Long.				104 Ells Long.				105 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	2	29	—	—	2	30	—	—	2	31	—	—	2	32	—	—	2	33
2	—	—	5	22	—	—	5	24	—	—	5	26	—	—	5	28	—	—	5	30
3	—	—	8	15	—	—	8	18	—	—	8	21	—	—	8	24	—	—	8	27
4	—	—	11	8	—	—	11	12	—	—	11	16	—	—	11	20	—	—	11	24
5	—	—	14	1	—	—	14	6	—	—	14	11	—	—	14	16	—	—	14	21
6	—	—	16	30	—	—	17	—	—	—	17	6	—	—	17	12	—	—	17	18
7	—	—	19	23	—	—	19	30	—	—	20	1	—	—	20	8	—	—	20	15
8	—	—	22	16	—	—	22	24	—	—	22	32	—	—	23	4	—	—	23	12
9	—	—	25	9	—	—	25	18	—	—	25	27	—	—	26	—	—	—	26	9
10	—	—	28	2	—	—	28	12	—	—	28	22	—	—	28	32	—	—	29	6
20	—	1	16	4	—	1	16	24	—	1	17	8	—	1	17	28	—	1	18	12
30	—	2	4	6	—	2	5	—	—	2	5	30	—	2	6	24	—	2	7	18
40	—	2	32	8	—	2	33	12	—	2	34	16	—	2	35	20	—	2	36	24
50	—	3	20	10	—	3	21	24	—	3	23	2	—	3	24	16	—	3	25	30
60	1	—	8	12	1	—	10	—	1	—	11	24	1	—	13	12	1	—	15	—
70	1	—	36	14	1	—	38	12	1	1	—	10	1	1	2	8	1	1	4	6
80	1	1	24	16	1	1	26	24	1	1	28	32	1	1	31	4	1	1	33	12
90	1	2	12	18	1	2	15	—	1	2	17	18	1	2	20	—	1	2	22	18
100	1	3	—	20	1	3	3	12	1	3	6	4	1	3	8	32	1	3	11	24
200	3	2	1	4	3	2	6	24	3	2	12	8	3	2	17	28	3	2	23	12
300	5	1	1	24	5	1	10	—	5	1	18	12	5	1	26	24	5	1	35	—
400	7	—	2	8	7	—	13	12	7	—	24	16	7	—	35	20	7	1	6	24
500	8	3	2	28	8	3	16	24	8	3	30	20	9	—	4	16	9	—	18	12
600	10	2	3	12	10	2	20	—	10	2	36	24	10	3	13	12	10	3	30	—

Ells Wide.	106				107				108				109				110				
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	2	34	—	—	2	35	—	—	3	—	—	3	1	—	—	3	2		
2	—	—	5	32	—	—	5	34	—	—	6	—	—	6	2	—	—	6	4		
3	—	—	8	30	—	—	8	33	—	—	9	—	—	9	3	—	—	9	6		
4	—	—	11	28	—	—	11	32	—	—	12	—	—	12	4	—	—	12	8		
5	—	—	14	26	—	—	14	31	—	—	15	—	—	15	5	—	—	15	10		
6	—	—	17	24	—	—	17	30	—	—	18	—	—	18	6	—	—	18	12		
7	—	—	20	22	—	—	20	29	—	—	21	—	—	21	7	—	—	21	14		
8	—	—	23	20	—	—	23	28	—	—	24	—	—	24	8	—	—	24	16		
9	—	—	26	18	—	—	26	27	—	—	27	—	—	27	9	—	—	27	18		
10	—	—	29	16	—	—	29	26	—	—	30	—	—	30	10	—	—	30	20		
20	—	1	18	32	—	1	19	16	—	1	20	—	—	1	20	20	—	1	21	4	
30	—	2	8	12	—	2	9	6	—	2	10	—	—	2	10	30	—	2	11	24	
40	—	2	37	28	—	2	38	32	—	3	—	—	—	3	1	4	—	3	2	8	
50	—	3	27	8	—	3	28	22	—	3	30	—	—	3	31	14	—	3	32	28	
60	1	—	16	24	1	—	18	12	1	—	20	—	—	1	—	21	24	1	—	23	12
70	1	1	6	4	1	1	8	2	1	1	10	—	—	1	1	11	34	1	1	13	32
80	1	1	35	20	1	1	37	28	1	2	—	—	—	1	2	2	8	1	2	4	16
90	1	2	25	—	1	2	27	18	1	2	30	—	—	1	2	32	18	1	2	35	—
100	1	3	14	16	1	3	17	8	1	3	20	—	—	1	3	22	28	1	3	25	20
200	3	2	28	32	3	2	34	16	3	3	—	—	—	3	3	5	20	3	3	11	4
300	5	2	3	12	5	2	11	24	5	2	20	—	—	5	2	28	12	5	2	36	24
400	7	1	17	28	7	1	28	32	7	2	—	—	—	7	2	11	4	7	2	22	8
500	9	—	32	8	9	1	6	4	9	1	20	—	—	9	1	33	32	9	2	7	28
600	11	—	6	24	11	—	23	12	11	1	—	—	—	11	1	16	24	11	1	33	12

Ells Wide.	111 Ells Long.				112 Ells Long.				113 Ells Long.				114 Ells Long.				115 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	3	—	—	3	4	—	—	3	5	—	—	3	6	—	—	3	7
2	—	—	6	6	—	—	6	8	—	—	6	10	—	—	6	12	—	—	6	14
3	—	—	9	9	—	—	9	12	—	—	9	15	—	—	9	18	—	—	9	21
4	—	—	12	12	—	—	12	16	—	—	12	20	—	—	12	24	—	—	12	28
5	—	—	15	15	—	—	15	20	—	—	15	25	—	—	15	30	—	—	15	35
6	—	—	18	18	—	—	18	24	—	—	18	30	—	—	19	—	—	—	19	6
7	—	—	21	21	—	—	21	28	—	—	21	35	—	—	22	6	—	—	22	18
8	—	—	24	24	—	—	24	32	—	—	25	4	—	—	25	12	—	—	25	20
9	—	—	27	27	—	—	28	—	—	—	28	9	—	—	28	18	—	—	28	27
10	—	—	30	30	—	—	31	4	—	—	31	14	—	—	31	24	—	—	31	34
20	—	1	21	24	—	1	22	8	—	1	22	28	—	1	23	12	—	1	23	32
30	—	2	12	18	—	2	13	12	—	2	14	6	—	2	15	—	—	2	15	30
40	—	3	3	12	—	3	4	16	—	3	5	20	—	3	6	24	—	3	7	28
50	—	3	34	6	—	3	35	20	—	3	36	34	—	3	38	12	—	3	39	26
60	1	—	25	—	1	—	26	24	1	—	28	12	1	—	30	—	1	—	31	24
70	1	1	15	30	1	1	17	28	1	1	19	26	1	1	21	24	1	1	23	22
80	1	2	6	24	1	2	8	32	1	2	11	4	1	2	13	12	1	2	15	20
90	1	2	37	18	1	3	—	—	1	3	2	18	1	3	5	—	1	3	7	18
100	1	3	28	12	1	3	31	4	1	3	33	32	1	3	36	24	1	3	39	16
200	3	3	16	24	3	3	22	8	3	3	27	28	3	3	33	12	3	3	33	32
300	5	3	5	—	5	3	13	12	5	3	21	24	5	3	30	—	5	3	38	12
400	7	2	33	12	7	3	4	16	7	3	15	20	7	3	26	24	7	3	37	28
500	9	2	21	24	9	2	35	20	9	3	9	16	9	3	23	12	9	3	37	8
600	11	2	10	—	11	2	26	24	11	3	3	12	11	3	20	—	11	3	36	24

Ells Wide.	116 Ells Long.				117 Ells Long.				118 Ells Long.				119 Ells Long.				120 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	8	—	—	3	9	—	—	3	10	—	—	3	11	—	—	3	12
2	—	—	6	16	—	—	6	18	—	—	6	20	—	—	6	22	—	—	6	24
3	—	—	9	24	—	—	9	27	—	—	9	30	—	—	9	33	—	—	10	—
4	—	—	12	32	—	—	13	—	—	—	13	4	—	—	13	8	—	—	13	12
5	—	—	16	4	—	—	16	9	—	—	16	14	—	—	16	19	—	—	16	24
6	—	—	19	12	—	—	19	18	—	—	19	24	—	—	19	30	—	—	20	—
7	—	—	22	20	—	—	22	27	—	—	22	34	—	—	23	5	—	—	23	12
8	—	—	25	28	—	—	26	—	—	—	26	8	—	—	26	16	—	—	26	24
9	—	—	29	—	—	—	29	9	—	—	29	18	—	—	29	27	—	—	30	—
10	—	—	32	8	—	—	32	18	—	—	32	28	—	—	33	2	—	—	33	12
20	—	1	24	16	—	1	25	—	—	1	25	20	—	1	26	4	—	1	26	24
30	—	2	16	24	—	2	17	18	—	2	18	12	—	2	19	6	—	2	20	—
40	—	3	8	32	—	3	10	—	—	3	11	4	—	3	12	8	—	3	13	12
50	1	—	1	4	1	—	2	18	1	—	3	32	1	—	5	10	1	—	6	24
60	1	—	33	12	1	—	35	—	1	—	36	24	1	—	38	12	1	1	—	—
70	1	1	25	20	1	1	27	18	1	1	29	16	1	1	31	14	1	1	33	12
80	1	2	17	28	1	2	20	—	1	2	22	8	1	2	24	16	1	2	26	24
90	1	3	10	—	1	3	12	18	1	3	15	—	1	3	17	18	1	3	20	—
100	2	—	2	8	2	—	5	—	2	—	7	28	2	—	10	20	2	—	13	12
200	4	—	4	16	4	—	10	—	4	—	15	20	4	—	21	4	4	—	26	24
300	6	—	6	24	6	—	15	—	6	—	23	12	6	—	31	24	6	1	—	—
400	8	—	8	32	8	—	20	—	8	—	31	4	8	1	2	8	8	1	13	12
500	10	—	11	4	10	—	25	—	10	—	38	32	10	1	12	28	10	1	26	24
600	12	—	13	12	12	—	30	—	12	1	6	24	12	1	23	12	12	2	—	—

From 121 to 125 Ells Long.

Ells Wide.	121 Ells Long.				122 Ells Long.				123 Ells Long.				124 Ells Long.				125 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	13	—	—	3	14	—	—	3	15	—	—	3	16	—	—	3	17
2	—	—	6	26	—	—	6	28	—	—	6	30	—	—	6	32	—	—	6	34
3	—	—	10	3	—	—	10	6	—	—	10	9	—	—	10	12	—	—	10	15
4	—	—	13	16	—	—	13	20	—	—	13	24	—	—	13	28	—	—	13	32
5	—	—	16	29	—	—	16	34	—	—	17	3	—	—	17	8	—	—	17	13
6	—	—	20	6	—	—	20	12	—	—	20	18	—	—	20	24	—	—	20	30
7	—	—	23	19	—	—	23	26	—	—	23	33	—	—	24	4	—	—	24	11
8	—	—	26	32	—	—	27	4	—	—	27	12	—	—	27	20	—	—	27	28
9	—	—	30	9	—	—	30	18	—	—	30	27	—	—	31	—	—	—	31	9
10	—	—	33	22	—	—	33	32	—	—	34	6	—	—	34	16	—	—	34	26
20	—	1	27	8	—	1	27	28	—	1	28	12	—	1	28	32	—	1	29	16
30	—	2	20	30	—	2	21	24	—	2	22	18	—	2	23	12	—	2	24	6
40	—	3	14	16	—	3	15	20	—	3	16	24	—	3	17	28	—	3	18	32
50	1	—	8	2	1	—	9	16	1	—	10	30	1	—	12	8	1	—	13	22
60	1	1	1	24	1	1	3	12	1	1	5	—	1	1	6	24	1	1	8	12
70	1	1	35	10	1	1	37	8	1	1	39	6	1	2	1	4	1	2	3	2
80	1	2	28	32	1	2	31	4	1	2	33	12	1	2	35	20	1	2	37	28
90	1	3	22	18	1	3	25	—	1	3	27	18	1	3	30	—	1	3	32	18
100	2	—	16	4	2	—	18	32	2	—	21	24	2	—	24	16	2	—	27	8
200	4	—	32	8	4	—	37	28	4	1	3	12	4	1	8	32	4	1	14	16
300	6	1	8	12	6	1	16	24	6	1	25	—	6	1	33	12	6	2	1	24
400	8	1	24	16	8	1	35	20	8	2	6	24	8	2	17	28	8	2	28	32
500	10	2	—	20	10	2	14	16	10	2	28	12	10	3	2	8	10	3	16	4
600	12	2	16	24	12	2	33	12	12	3	10	—	12	3	26	24	13	—	3	12

Ells Wide	126 Ells Long.				127 Ells Long.				128 Ells Long.				129 Ells Long.				130 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	3	18	—	—	3	19	—	—	3	20	—	—	3	21	—	—	3	22	
2	—	—	7	—	—	—	7	2	—	—	7	4	—	—	7	6	—	—	7	8	
3	—	—	10	18	—	—	10	21	—	—	10	24	—	—	10	27	—	—	10	30	
4	—	—	14	—	—	—	14	4	—	—	14	8	—	—	14	12	—	—	14	16	
5	—	—	17	18	—	—	17	23	—	—	17	28	—	—	17	33	—	—	18	2	
6	—	—	21	—	—	—	21	6	—	—	21	12	—	—	21	18	—	—	21	24	
7	—	—	24	18	—	—	24	25	—	—	24	32	—	—	25	3	—	—	25	10	
8	—	—	28	—	—	—	28	8	—	—	28	16	—	—	28	24	—	—	28	32	
9	—	—	31	18	—	—	31	27	—	—	32	—	—	—	32	9	—	—	32	18	
10	—	—	35	—	—	—	35	10	—	—	35	20	—	—	35	30	—	—	36	4	
20	—	1	30	—	—	1	30	20	—	1	31	4	—	1	31	24	—	—	1	32	8
30	—	2	25	—	—	2	25	30	—	2	26	24	—	2	27	18	—	—	2	28	12
40	—	3	20	—	—	3	21	4	—	3	22	8	—	3	23	12	—	—	3	24	16
50	1	—	15	—	1	—	16	14	1	—	17	28	1	—	19	6	1	—	20	20	
60	1	1	10	—	1	1	11	24	1	1	13	12	1	1	15	—	1	1	16	24	
70	1	2	5	—	1	2	6	34	1	2	8	32	1	2	10	30	1	2	12	28	
80	1	3	—	—	1	3	2	8	1	3	4	16	1	3	6	24	1	3	8	32	
90	1	3	35	—	1	3	37	18	2	—	—	—	2	—	2	18	2	—	5	—	
100	2	—	30	—	2	—	32	28	2	—	25	20	2	—	38	12	2	1	1	4	
200	4	1	20	—	4	1	25	20	4	2	31	4	4	1	36	24	4	2	2	8	
300	6	2	10	—	6	2	18	12	6	2	26	24	6	2	35	—	6	3	3	12	
400	8	3	—	—	8	3	11	4	8	3	22	8	8	3	33	12	9	—	4	16	
500	10	3	30	—	11	—	3	32	11	—	17	28	11	—	31	24	11	1	5	20	
600	13	—	20	—	13	—	36	24	13	1	13	12	13	1	30	—	13	2	6	24	

Ells Wide.	131 Ells Long.				132 Ells Long.				133 Ells Long.				134 Ells Long.				135 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	23	—	—	3	24	—	—	3	25	—	—	3	26	—	—	3	27
2	—	—	7	10	—	—	7	12	—	—	7	14	—	—	7	16	—	—	7	18
3	—	—	10	33	—	—	11	—	—	—	11	3	—	—	11	6	—	—	11	9
4	—	—	14	20	—	—	14	24	—	—	14	28	—	—	14	32	—	—	15	—
5	—	—	18	7	—	—	18	12	—	—	18	17	—	—	18	22	—	—	18	27
6	—	—	21	30	—	—	22	—	—	—	22	6	—	—	22	12	—	—	22	18
7	—	—	25	17	—	—	25	24	—	—	25	31	—	—	26	2	—	—	26	9
8	—	—	29	4	—	—	29	12	—	—	29	20	—	—	29	28	—	—	30	—
9	—	—	32	27	—	—	33	—	—	—	33	9	—	—	33	18	—	—	33	27
10	—	—	36	14	—	—	36	24	—	—	36	34	—	—	37	8	—	—	37	18
20	—	1	32	28	—	1	33	12	—	1	33	32	—	1	34	16	—	—	1	35
30	—	2	29	6	—	2	30	—	—	2	30	30	—	2	31	24	—	—	2	32
40	—	3	25	20	—	3	26	24	—	—	3	27	28	—	3	28	32	—	3	30
50	1	—	21	34	1	—	23	12	1	—	24	26	1	—	26	4	1	—	27	18
60	1	1	18	12	1	1	20	—	1	1	21	24	1	1	23	12	1	1	25	—
70	1	2	14	26	1	2	16	24	1	2	18	22	1	2	20	20	1	2	22	18
80	1	3	11	4	1	3	13	12	1	3	15	20	1	3	17	28	1	3	20	—
90	2	—	7	18	2	—	10	—	2	—	12	18	2	—	15	—	2	—	17	18
100	2	1	3	32	2	1	6	24	2	1	9	16	2	1	12	8	2	1	15	—
200	4	2	7	28	4	2	13	12	4	2	18	32	4	2	24	16	4	2	30	—
300	6	3	11	24	6	3	20	—	6	3	28	12	6	3	36	24	7	—	5	—
400	9	—	15	20	9	—	26	24	9	—	37	28	9	1	8	32	9	1	20	—
500	11	1	19	16	11	1	33	12	11	2	7	8	11	2	21	4	11	2	35	—
600	13	2	23	12	13	3	—	—	13	3	16	24	13	3	33	12	14	—	10	—

Ells Wide.	136 Ells Long.				137 Ells Long.				138 Ells Long.				139 Ells Long.				140 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	28	—	—	3	29	—	—	3	30	—	—	3	31	—	—	3	32
2	—	—	7	20	—	—	7	22	—	—	7	24	—	—	7	26	—	—	7	28
3	—	—	11	12	—	—	11	15	—	—	11	18	—	—	11	21	—	—	11	24
4	—	—	15	4	—	—	15	8	—	—	15	12	—	—	15	16	—	—	15	20
5	—	—	18	32	—	—	19	1	—	—	19	6	—	—	19	11	—	—	19	16
6	—	—	22	24	—	—	22	30	—	—	23	—	—	—	23	6	—	—	23	12
7	—	—	26	16	—	—	26	23	—	—	26	30	—	—	27	1	—	—	27	8
8	—	—	30	8	—	—	30	16	—	—	30	24	—	—	30	32	—	—	31	4
9	—	—	34	—	—	—	34	9	—	—	34	18	—	—	34	27	—	—	35	—
10	—	—	37	28	—	—	38	2	—	—	38	12	—	—	38	22	—	—	38	32
20	—	1	35	20	—	1	36	4	—	1	36	24	—	1	37	8	—	1	37	28
30	—	2	33	12	—	2	34	6	—	2	35	—	—	2	35	30	—	2	36	24
40	—	3	31	4	—	3	32	8	—	3	33	12	—	3	34	16	—	3	35	20
50	1	—	28	32	1	—	30	10	1	—	31	24	1	—	33	2	1	—	34	16
60	1	1	26	24	1	1	28	12	1	1	30	—	1	1	31	24	1	1	33	12
70	1	2	24	16	1	2	26	14	1	2	28	12	1	2	30	10	1	2	32	8
80	1	3	22	8	1	3	24	16	1	3	26	24	1	3	28	32	1	3	31	4
90	2	—	20	—	2	—	22	18	2	—	25	—	2	—	27	18	2	—	30	—
100	2	1	17	28	2	1	20	20	2	1	23	12	2	1	26	4	2	1	28	32
200	4	2	35	20	4	3	1	4	4	3	6	24	4	3	12	8	4	3	17	28
300	7	—	13	12	7	—	21	24	7	—	30	—	7	—	33	12	7	1	6	24
400	9	1	31	4	9	2	2	8	9	2	13	12	9	2	24	16	9	2	35	20
500	11	3	8	32	11	3	22	28	11	3	36	24	12	—	10	20	12	—	24	16
600	14	—	26	24	14	1	3	12	14	1	20	—	14	1	36	24	14	2	13	12

Ells Wide.	141 Ells Long.				142 Ells Long.				143 Ells Long.				144 Ells Long.				145 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	3	33	—	—	3	34	—	—	3	35	—	—	4	—	—	—	4	1
2	—	—	7	30	—	—	7	32	—	—	7	34	—	—	8	—	—	—	8	2
3	—	—	11	27	—	—	11	30	—	—	11	33	—	—	12	—	—	—	12	3
4	—	—	15	24	—	—	15	28	—	—	15	32	—	—	16	—	—	—	16	4
5	—	—	19	21	—	—	19	26	—	—	19	31	—	—	20	—	—	—	20	5
6	—	—	23	18	—	—	23	24	—	—	23	30	—	—	24	—	—	—	24	6
7	—	—	27	15	—	—	27	22	—	—	27	29	—	—	28	—	—	—	28	7
8	—	—	31	12	—	—	31	20	—	—	31	28	—	—	32	—	—	—	32	8
9	—	—	35	9	—	—	35	18	—	—	35	27	—	—	36	—	—	—	36	9
10	—	—	39	6	—	—	39	16	—	—	39	26	—	1	—	—	—	1	—	10
20	—	1	38	12	—	1	38	32	—	1	39	16	—	2	—	—	—	2	—	20
30	—	2	37	18	—	2	38	12	—	2	39	6	—	3	—	—	—	3	—	30
40	—	3	36	24	—	3	37	28	—	3	38	32	1	—	—	—	1	—	1	4
50	1	—	35	30	1	—	37	8	1	—	38	22	1	1	—	—	1	1	1	14
60	1	1	35	—	1	1	36	24	1	1	38	12	1	2	—	—	1	2	1	24
70	1	2	34	6	1	2	36	4	1	2	38	2	1	3	—	—	1	3	1	34
80	1	3	33	12	1	3	35	20	1	3	37	28	2	—	—	—	2	—	2	8
90	2	—	32	18	2	—	35	—	2	—	37	18	2	1	—	—	2	1	2	18
100	2	1	31	24	2	1	34	16	2	1	37	8	2	2	—	—	2	2	2	28
200	4	3	28	12	4	3	28	32	4	3	34	16	5	—	—	—	5	—	5	20
300	7	1	15	—	7	1	23	12	7	1	31	24	7	2	—	—	7	2	8	12
400	9	3	6	24	9	3	17	28	9	3	28	32	10	—	—	—	10	—	11	4
500	12	—	38	12	12	1	12	8	12	1	26	4	12	2	—	—	12	2	13	32
600	14	2	30	—	14	3	6	24	14	3	23	12	15	—	—	—	15	—	16	24

Ells Wide.	146 Ells Long.				147 Ells Long.				148 Ells L. ng.				149 Ells L. ng.				150 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	4	2	—	—	4	3	—	—	4	4	—	—	4	5	—	—	4	6
2	—	—	8	4	—	—	8	6	—	—	8	8	—	—	8	10	—	—	8	12
3	—	—	12	6	—	—	12	9	—	—	12	12	—	—	12	15	—	—	12	18
4	—	—	16	8	—	—	16	12	—	—	16	16	—	—	16	20	—	—	16	24
5	—	—	20	10	—	—	20	15	—	—	20	20	—	—	20	25	—	—	20	30
6	—	—	24	12	—	—	24	18	—	—	24	24	—	—	24	30	—	—	25	—
7	—	—	28	14	—	—	28	21	—	—	28	28	—	—	28	35	—	—	29	6
8	—	—	32	16	—	—	32	24	—	—	32	32	—	—	33	4	—	—	33	12
9	—	—	36	18	—	—	36	27	—	—	37	—	—	—	37	9	—	—	37	18
10	—	1	—	20	—	1	—	30	—	1	1	4	—	1	1	14	—	1	1	24
20	—	2	1	4	—	2	1	24	—	2	2	8	—	2	2	28	—	2	3	12
30	—	3	1	24	—	3	2	18	—	3	3	12	—	3	4	6	—	3	5	—
40	1	—	2	8	1	—	3	12	1	—	4	16	1	—	5	20	1	—	6	24
50	1	1	2	28	1	1	4	6	1	1	5	20	1	1	6	34	1	1	8	12
60	1	2	3	12	1	2	5	—	1	2	6	24	1	2	8	12	1	2	10	—
70	1	3	3	32	1	3	5	30	1	3	7	28	1	3	9	26	1	3	11	24
80	2	—	4	16	2	—	6	24	2	—	8	32	2	—	11	4	2	—	13	12
90	2	1	5	—	2	1	7	18	2	1	10	—	2	1	12	18	2	1	15	—
100	2	2	5	20	2	2	8	12	2	2	11	4	2	2	13	32	2	2	16	24
200	5	—	11	4	5	—	16	24	5	—	22	8	5	—	27	28	5	—	33	12
300	7	2	16	24	7	2	25	—	7	2	33	12	7	3	1	24	7	3	10	—
400	10	—	22	8	10	—	33	12	10	1	4	16	10	1	15	20	10	1	26	24
500	12	2	27	28	12	3	1	24	12	3	15	20	12	3	29	16	13	—	3	12
600	15	—	33	12	15	1	10	—	15	1	26	24	15	2	3	12	15	2	20	—

From 151 to 155 Ells Long.

Ells Wide.	151 Ells Long.				152 Ells Long.				153 Ells Long.				154 Ells Long.				155 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	4	7	—	—	4	8	—	—	4	9	—	—	4	10	—	—	4	11	
2	—	—	8	14	—	—	8	16	—	—	8	18	—	—	8	20	—	—	8	22	
3	—	—	12	21	—	—	12	24	—	—	12	27	—	—	12	30	—	—	12	33	
4	—	—	16	28	—	—	16	32	—	—	17	—	—	—	17	4	—	—	17	8	
5	—	—	20	35	—	—	21	4	—	—	21	9	—	—	21	14	—	—	21	19	
6	—	—	25	6	—	—	25	12	—	—	25	18	—	—	25	24	—	—	25	30	
7	—	—	29	13	—	—	29	20	—	—	29	27	—	—	29	34	—	—	30	5	
8	—	—	33	20	—	—	33	28	—	—	34	—	—	—	34	8	—	—	34	16	
9	—	—	37	27	—	—	38	—	—	—	38	9	—	—	38	18	—	—	38	27	
10	—	1	1	34	—	1	2	8	—	1	2	18	—	1	2	28	—	1	3	2	
20	—	2	3	32	—	2	4	16	—	2	5	—	—	2	5	20	—	2	6	4	
30	—	3	5	30	—	3	6	24	—	3	7	18	—	—	3	8	12	—	3	9	6
40	1	—	7	28	1	—	8	32	1	—	10	—	1	—	11	4	1	—	12	8	
50	1	1	9	26	1	1	11	4	1	1	12	18	1	1	13	32	1	1	15	10	
60	1	2	11	24	1	2	13	12	1	2	15	—	1	2	16	24	1	2	18	12	
70	1	3	13	22	1	3	15	20	1	3	17	18	1	3	19	16	1	3	21	14	
80	2	—	15	20	2	—	17	28	2	—	20	—	2	—	22	8	2	—	24	16	
90	2	1	17	18	2	1	20	—	2	1	22	18	2	1	25	—	2	1	27	18	
100	2	2	19	16	2	2	22	8	2	2	25	—	2	2	27	28	2	2	30	20	
200	5	—	38	32	5	1	4	16	5	1	10	—	5	1	15	20	5	1	21	4	
300	7	3	18	12	7	3	26	24	7	3	35	—	8	—	12	—	8	—	11	24	
400	10	1	37	28	10	2	8	32	10	2	20	—	10	2	31	4	10	3	2	8	
500	13	—	17	8	13	—	31	4	13	1	5	—	13	1	18	32	13	1	32	28	
600	15	2	36	24	15	3	13	12	15	3	30	—	16	—	6	24	16	—	23	12	

Ells Wide	156 Ells Long.				157 Ells Long.				158 Ells Long.				159 Ells Long.				160 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	4	12	—	—	4	13	—	—	4	14	—	—	4	15	—	—	4	16	
2	—	—	8	24	—	—	8	26	—	—	8	28	—	—	8	30	—	—	8	32	
3	—	—	13	—	—	—	13	3	—	—	13	6	—	—	13	9	—	—	13	12	
4	—	—	17	12	—	—	17	16	—	—	17	20	—	—	17	24	—	—	17	30	
5	—	—	21	24	—	—	21	29	—	—	21	34	—	—	22	3	—	—	22	8	
6	—	—	26	—	—	—	26	6	—	—	26	12	—	—	26	18	—	—	26	24	
7	—	—	30	12	—	—	30	19	—	—	30	26	—	—	30	33	—	—	31	4	
8	—	—	34	24	—	—	34	32	—	—	35	4	—	—	35	12	—	—	35	20	
9	—	—	39	—	—	—	39	9	—	—	39	18	—	—	39	27	—	—	1	—	
10	—	1	3	12	—	1	3	22	—	1	3	32	—	1	4	6	—	—	1	4	16
20	—	2	6	24	—	2	7	8	—	2	7	28	—	2	8	12	—	—	2	8	32
30	—	3	10	—	—	3	10	30	—	3	11	24	—	3	12	18	—	—	3	13	12
40	1	—	13	12	1	—	14	16	1	—	15	20	1	—	16	24	1	—	17	28	
50	1	1	16	24	1	1	18	2	1	1	19	16	1	1	20	30	1	1	22	8	
60	1	2	20	—	1	2	21	24	1	2	23	12	1	2	25	—	1	2	26	24	
70	1	3	23	12	1	3	25	10	1	3	27	8	1	3	29	6	1	3	31	4	
80	2	—	26	24	2	—	28	32	2	—	31	4	2	—	33	12	2	—	35	20	
90	2	1	30	—	2	1	32	18	2	1	35	—	2	1	37	18	2	2	—	—	
100	2	2	33	12	2	2	36	4	2	2	38	32	2	3	1	24	2	3	4	16	
200	5	1	26	24	5	1	32	8	5	1	37	28	5	2	3	12	5	2	8	32	
300	8	—	20	—	8	—	28	12	8	—	36	24	8	1	5	—	8	1	13	12	
400	10	3	13	12	10	3	24	16	10	3	35	20	11	—	6	24	11	—	17	28	
500	13	2	6	24	13	2	20	20	13	2	34	16	13	3	8	12	13	3	22	8	
600	16	1	—	—	16	1	16	24	16	1	33	12	16	2	10	—	16	2	26	24	

Ells Wide.	161 Ells Long.				162 Ells Long.				163 Ells Long.				164 Ells Long.				165 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	4	17	—	—	4	18	—	—	4	19	—	—	4	20	—	—	4	21
2	—	—	8	34	—	—	9	—	—	—	9	2	—	—	9	4	—	—	9	6
3	—	—	13	15	—	—	13	18	—	—	13	21	—	—	13	24	—	—	13	27
4	—	—	17	32	—	—	18	—	—	—	18	4	—	—	18	8	—	—	18	12
5	—	—	22	13	—	—	22	18	—	—	22	23	—	—	22	28	—	—	22	33
6	—	—	26	30	—	—	27	—	—	—	27	6	—	—	27	12	—	—	27	18
7	—	—	31	11	—	—	31	18	—	—	31	25	—	—	31	32	—	—	32	3
8	—	—	35	28	—	—	36	—	—	—	36	8	—	—	36	16	—	—	36	24
9	—	1	—	9	—	1	—	18	—	1	—	27	—	1	1	—	—	1	1	9
10	—	1	4	26	—	1	5	—	—	1	5	10	—	1	5	20	—	1	5	30
20	—	2	9	16	—	2	10	—	—	2	10	20	—	2	11	4	—	2	11	24
30	—	3	14	6	—	3	15	—	—	3	15	30	—	3	16	24	—	3	17	18
40	1	—	18	32	1	—	20	—	1	—	21	4	1	—	22	8	1	—	23	12
50	1	1	23	22	1	1	25	—	1	1	26	14	1	1	27	28	1	1	29	6
60	1	2	28	12	1	2	30	—	1	2	31	24	1	2	33	12	1	2	35	—
70	1	3	33	2	1	3	35	—	1	3	36	34	1	3	38	32	2	—	—	30
80	2	—	37	28	2	1	—	—	2	1	2	8	2	1	4	16	2	1	6	24
90	2	2	2	18	2	2	5	—	2	2	7	18	2	2	10	—	2	2	12	18
100	2	3	7	8	2	3	10	—	2	3	12	28	2	3	15	20	2	3	18	12
200	5	2	14	16	5	2	20	—	5	2	25	20	5	2	31	4	5	2	36	24
300	8	1	21	24	8	1	30	—	8	1	38	12	8	2	6	24	8	2	15	—
400	11	—	28	32	11	1	—	—	11	1	11	4	11	1	22	8	11	1	33	12
500	13	3	36	4	14	—	10	—	14	—	23	32	14	—	37	28	14	1	11	24
600	16	3	3	12	16	3	20	—	16	3	36	24	17	—	13	12	17	—	30	—

Ells Wide.	166 Ells Long.				167 Ells Long.				168 Ells Long.				169 Ells Long.				170 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	4	22	—	—	4	23	—	—	4	24	—	—	4	25	—	—	4	26
2	—	—	9	8	—	—	9	10	—	—	9	12	—	—	9	14	—	—	9	16
3	—	—	13	30	—	—	13	33	—	—	14	—	—	—	14	3	—	—	14	6
4	—	—	18	16	—	—	18	20	—	—	18	24	—	—	18	28	—	—	18	32
5	—	—	23	2	—	—	23	7	—	—	23	12	—	—	23	17	—	—	23	22
6	—	—	27	24	—	—	27	30	—	—	28	—	—	—	28	6	—	—	28	12
7	—	—	32	10	—	—	32	17	—	—	32	24	—	—	32	31	—	—	33	2
8	—	—	36	32	—	—	37	4	—	—	37	12	—	—	37	20	—	—	37	28
9	—	1	1	18	—	1	1	27	—	1	2	—	—	1	2	9	—	1	2	18
10	—	1	6	4	—	1	6	14	—	1	6	24	—	1	6	34	—	1	7	8
20	—	2	12	8	—	2	12	28	—	2	13	12	—	2	13	32	—	2	14	16
30	—	3	18	12	—	3	19	6	—	3	20	—	—	3	20	30	—	3	21	24
40	1	—	24	16	1	—	25	20	1	—	26	24	1	—	27	28	1	—	28	32
50	1	1	30	20	1	1	31	34	1	1	33	12	1	1	34	26	1	1	36	4
60	1	2	36	24	1	2	38	12	1	3	—	—	1	3	1	24	1	3	3	12
70	2	—	2	28	2	—	4	26	2	—	6	24	2	—	8	22	2	—	10	20
80	2	1	8	32	2	1	11	4	2	1	13	12	2	1	15	20	2	1	17	28
90	2	2	15	—	2	2	17	18	2	2	20	—	2	2	22	18	2	2	25	—
100	2	3	21	4	2	3	23	32	2	3	26	24	2	3	29	16	2	3	32	8
200	5	3	2	8	5	3	7	28	5	3	13	12	5	3	18	32	5	3	24	16
300	8	2	23	12	8	2	31	24	8	3	—	—	8	3	8	12	8	3	16	24
400	11	2	4	16	11	2	15	20	11	2	26	24	11	2	37	28	11	3	8	32
500	14	1	25	20	14	1	39	16	14	2	13	12	14	2	27	8	14	3	1	4
600	17	1	6	24	17	1	23	12	17	2	—	—	17	2	16	24	17	2	33	12

Ells Wide.	171 Ells Long.				172 Ells Long.				173 Ells Long.				174 Ells Long.				175 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	4	27	—	—	4	28	—	—	4	29	—	—	4	30	—	—	4	31
2	—	—	9	18	—	—	9	20	—	—	9	22	—	—	9	24	—	—	9	26
3	—	—	14	9	—	—	14	12	—	—	14	15	—	—	14	18	—	—	14	21
4	—	—	19	—	—	—	19	4	—	—	19	8	—	—	19	12	—	—	19	16
5	—	—	23	27	—	—	23	32	—	—	24	1	—	—	24	6	—	—	24	11
6	—	—	28	18	—	—	28	24	—	—	28	30	—	—	29	—	—	—	29	6
7	—	—	33	9	—	—	33	16	—	—	33	23	—	—	33	30	—	—	34	1
8	—	—	38	—	—	—	38	8	—	—	38	16	—	—	38	24	—	—	38	32
9	—	1	2	27	—	1	3	—	—	1	3	9	—	1	3	18	—	1	3	27
10	—	1	7	18	—	1	7	28	—	1	8	2	—	1	8	12	—	1	8	22
20	—	2	15	—	—	2	15	20	—	2	16	4	—	2	16	24	—	2	17	8
30	—	3	22	18	—	3	23	12	—	3	24	6	—	3	25	—	—	3	25	30
40	1	—	30	—	1	—	31	4	1	—	32	8	1	—	33	12	1	—	34	16
50	1	1	37	18	1	1	38	32	1	2	—	10	1	2	1	24	1	2	3	2
60	1	3	5	—	1	3	6	24	1	3	8	12	1	3	10	—	1	3	11	24
70	2	—	12	18	2	—	14	16	2	—	16	14	2	—	18	12	2	—	20	10
80	2	1	20	—	2	1	22	8	2	1	24	16	2	1	26	24	2	1	28	32
90	2	2	27	18	2	2	30	—	2	2	32	18	2	2	35	—	2	2	37	18
100	2	3	35	—	2	3	37	28	3	—	—	20	3	—	3	12	3	—	6	4
200	5	3	30	—	5	3	35	20	6	—	1	4	6	—	6	24	6	—	12	8
300	8	3	25	—	8	3	33	12	9	—	1	24	9	—	10	—	9	—	18	12
400	11	3	20	—	11	3	31	4	12	—	2	8	12	—	13	12	12	—	24	16
500	14	3	15	—	14	3	28	32	15	—	2	28	15	—	16	24	15	—	30	20
600	17	3	10	—	17	3	26	24	18	—	3	12	18	—	20	—	18	—	36	24

Ells Wide.	176 Ells Long.				177 Ells Long.				178 Ells Long.				179 Ells Long.				180 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	4	32	—	—	4	33	—	—	4	34	—	—	4	35	—	—	5	—
2	—	—	9	28	—	—	9	30	—	—	9	32	—	—	9	34	—	—	10	—
3	—	—	14	24	—	—	14	27	—	—	14	30	—	—	14	33	—	—	15	—
4	—	—	19	20	—	—	19	24	—	—	19	28	—	—	19	32	—	—	20	—
5	—	—	24	16	—	—	24	21	—	—	24	26	—	—	24	31	—	—	25	—
6	—	—	29	12	—	—	29	18	—	—	29	24	—	—	29	30	—	—	30	—
7	—	—	34	8	—	—	34	15	—	—	34	22	—	—	34	29	—	—	35	—
8	—	—	39	4	—	—	39	12	—	—	39	20	—	—	39	28	—	—	1	—
9	—	1	4	—	—	1	4	9	—	—	1	4	18	—	1	4	27	—	1	5
10	—	1	8	32	—	1	9	6	—	—	1	9	16	—	1	9	26	—	1	10
20	—	2	17	28	—	2	18	12	—	—	2	18	32	—	2	19	16	—	2	20
30	—	3	26	24	—	3	27	18	—	—	3	28	12	—	3	29	6	—	3	30
40	1	—	35	20	1	—	36	24	1	—	37	28	1	—	38	32	1	1	—	—
50	1	2	4	16	1	2	5	30	1	2	7	8	1	2	8	22	1	2	10	—
60	1	3	13	12	1	3	15	—	1	3	16	24	1	3	18	12	1	3	20	—
70	2	—	22	8	2	—	24	6	2	—	26	4	2	—	28	2	2	—	30	—
80	2	1	31	4	2	1	33	12	2	1	35	20	2	1	37	28	2	2	—	—
90	2	3	—	—	2	3	2	18	2	3	5	—	2	3	7	18	2	3	10	—
100	3	—	8	32	3	—	11	24	3	—	14	16	3	—	17	8	3	—	20	—
200	6	—	17	28	6	—	23	12	6	—	28	32	6	—	34	16	6	1	—	—
300	9	—	26	24	9	—	35	—	9	1	3	12	9	1	11	24	9	2	20	—
400	12	—	35	20	12	1	6	24	12	1	17	28	12	1	28	32	12	2	—	—
500	15	1	4	16	15	1	18	12	15	1	32	8	15	2	6	4	15	2	20	—
600	18	1	13	12	18	1	30	—	18	2	6	24	18	2	23	12	18	3	—	—

Ells Wide.	181 Ells Long.				182 Ells Long.				183 Ells Long.				184 Ells Long.				185 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	5	1	—	—	5	2	—	—	5	3	—	—	5	4	—	—	5	5
2	—	—	10	2	—	—	10	4	—	—	10	6	—	—	10	8	—	—	10	10
3	—	—	15	3	—	—	15	6	—	—	15	9	—	—	15	12	—	—	15	15
4	—	—	20	4	—	—	20	8	—	—	20	12	—	—	20	16	—	—	20	20
5	—	—	25	5	—	—	25	10	—	—	25	15	—	—	25	20	—	—	25	25
6	—	—	30	6	—	—	30	12	—	—	30	18	—	—	30	24	—	—	30	30
7	—	—	35	7	—	—	35	14	—	—	35	21	—	—	35	28	—	—	35	35
8	—	1	—	8	—	1	—	16	—	1	—	24	—	1	—	32	—	1	1	4
9	—	1	5	9	—	1	5	18	—	1	5	27	—	1	6	—	—	1	6	9
10	—	1	10	10	—	1	10	20	—	1	10	30	—	1	11	4	—	1	11	14
20	—	2	20	20	—	2	21	4	—	2	21	24	—	2	22	8	—	2	22	28
30	—	3	30	30	—	3	31	24	—	3	32	18	—	3	33	12	—	3	34	6
40	1	1	1	4	1	1	2	8	1	1	3	12	1	1	4	16	1	1	5	20
50	1	2	11	14	1	2	12	28	1	2	14	6	1	2	15	20	1	2	16	34
60	1	3	21	24	1	3	23	12	1	3	25	—	1	3	26	24	1	3	28	12
70	2	—	31	34	2	—	33	32	2	—	35	30	2	—	37	28	2	—	39	26
80	2	2	2	8	2	2	4	16	2	2	6	24	2	2	8	32	2	2	11	4
90	2	3	12	18	2	3	15	—	2	3	17	18	2	3	20	—	2	3	22	18
100	3	—	22	28	3	—	25	20	3	—	28	12	3	—	31	4	3	—	33	32
200	6	1	5	20	6	1	11	4	6	1	16	24	6	1	22	8	6	1	27	28
300	9	1	28	12	9	1	36	24	9	2	5	—	9	2	13	12	9	2	21	24
400	12	2	11	4	12	2	22	8	12	2	33	12	12	3	4	16	12	3	15	20
500	15	2	33	32	15	3	7	28	15	3	21	24	15	3	35	20	16	—	9	16
600	18	3	16	24	18	3	33	12	17	—	10	—	19	—	26	34	19	1	3	12

Ells Wide.	186				187				188				189				190					
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	5	6	—	—	5	7	—	—	5	8	—	—	5	9	—	—	5	10		
2	—	—	10	12	—	—	10	14	—	—	10	16	—	—	10	18	—	—	10	20		
3	—	—	15	18	—	—	15	21	—	—	15	24	—	—	15	27	—	—	15	30		
4	—	—	20	24	—	—	20	28	—	—	20	32	—	—	21	—	—	—	21	4		
5	—	—	25	30	—	—	25	35	—	—	26	4	—	—	26	9	—	—	26	14		
6	—	—	31	—	—	—	31	6	—	—	31	12	—	—	31	18	—	—	31	24		
7	—	—	36	6	—	—	36	13	—	—	36	20	—	—	36	27	—	—	36	34		
8	—	1	1	12	—	1	1	20	—	1	1	28	—	1	2	—	—	—	1	2	8	
9	—	1	6	18	—	1	6	27	—	1	7	—	—	1	7	9	—	—	1	7	18	
10	—	1	11	24	—	1	11	34	—	1	12	8	—	1	12	18	—	—	1	12	28	
20	—	2	23	12	—	2	23	32	—	2	24	16	—	2	25	—	—	—	2	25	20	
30	—	3	35	—	—	3	35	30	—	3	36	24	—	3	37	18	—	—	3	38	12	
40	1	1	6	24	1	1	7	28	1	1	8	32	1	1	10	—	—	—	1	1	11	4
50	1	2	18	12	1	2	19	26	1	2	21	4	1	2	22	18	1	2	23	32		
60	1	3	30	—	1	3	31	24	1	3	33	12	1	3	35	—	—	—	1	3	36	24
70	2	1	1	24	2	1	3	22	2	1	5	20	2	1	7	18	2	1	9	16		
80	2	2	13	12	2	2	15	20	2	2	17	28	2	2	20	—	—	—	2	2	22	8
90	2	3	25	—	2	3	27	18	2	3	30	—	2	3	32	18	2	3	35	—		
100	3	—	36	24	3	—	39	16	3	1	2	8	3	1	5	—	—	—	3	1	7	28
200	6	1	33	12	6	1	38	32	6	2	4	16	6	2	10	—	—	—	6	2	15	20
300	9	2	30	—	9	2	38	12	9	3	6	24	9	3	15	—	—	—	9	3	23	12
400	12	3	26	24	12	3	37	28	13	—	8	32	13	—	20	—	—	—	13	—	31	4
500	16	—	23	12	16	—	37	8	16	1	11	4	16	1	25	—	—	—	16	1	38	32
600	19	1	20	—	19	1	36	24	19	2	13	12	19	2	30	—	—	—	19	3	6	24

Ells Wide.	191 Ells Long.				192 Ells Long.				193 Ells Long.				194 Ells Long.				195 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	5	11	—	—	5	12	—	—	5	13	—	—	5	14	—	—	5	15
2	—	—	10	22	—	—	10	24	—	—	10	26	—	—	10	28	—	—	10	30
3	—	—	15	33	—	—	16	—	—	—	16	3	—	—	16	6	—	—	16	9
4	—	—	21	8	—	—	21	12	—	—	21	16	—	—	21	20	—	—	21	24
5	—	—	26	19	—	—	26	24	—	—	26	29	—	—	26	34	—	—	27	3
6	—	—	31	30	—	—	32	—	—	—	32	6	—	—	32	12	—	—	32	18
7	—	—	37	5	—	—	37	12	—	—	37	19	—	—	37	26	—	—	37	33
8	—	1	2	16	—	1	2	24	—	1	2	32	—	1	3	4	—	1	3	12
9	—	1	7	27	—	1	8	—	—	1	8	9	—	1	8	18	—	1	8	27
10	—	1	13	2	—	1	13	12	—	1	13	22	—	1	13	32	—	1	14	6
20	—	2	26	4	—	2	26	24	—	2	27	8	—	2	27	28	—	2	28	12
30	—	3	39	6	1	—	—	—	1	—	—	30	1	—	1	24	1	—	2	18
40	1	1	12	8	1	1	13	12	1	1	14	16	1	1	15	20	1	1	16	24
50	1	2	25	10	1	2	26	24	1	2	28	2	1	2	29	16	1	2	30	30
60	1	3	38	12	2	—	—	—	2	—	1	24	2	—	3	12	2	—	5	—
70	2	1	11	14	2	1	13	12	2	1	15	10	2	1	17	8	2	1	19	6
80	2	2	24	16	2	2	26	24	2	2	28	32	2	2	31	4	2	2	33	12
90	2	3	37	18	3	—	—	—	3	—	2	18	3	—	5	—	3	—	7	18
100	3	1	10	20	3	1	13	12	3	1	16	4	3	1	18	32	3	1	21	24
200	6	2	21	4	6	2	26	24	6	2	32	8	6	2	37	28	6	3	3	12
300	9	3	31	24	10	—	—	—	10	—	8	12	10	—	16	24	10	—	25	—
400	13	1	2	8	13	1	13	12	13	1	24	16	13	1	35	20	13	2	6	24
500	16	2	12	28	16	2	26	24	16	3	—	20	16	3	14	16	16	3	28	12
600	19	3	23	12	20	—	—	—	20	—	16	24	20	—	33	12	20	1	10	—

Ells Wide.	196 Ells Long.				197 Ells Long.				198 Ells Long.				199 Ells Long.				200 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	5	16	—	—	5	17	—	—	5	18	—	—	5	19	—	—	5	20		
2	—	—	10	32	—	—	10	34	—	—	11	—	—	11	2	—	—	11	4			
3	—	—	16	12	—	—	16	15	—	—	16	18	—	—	16	21	—	—	16	24		
4	—	—	21	28	—	—	21	32	—	—	22	—	—	22	4	—	—	22	8			
5	—	—	27	8	—	—	27	13	—	—	27	18	—	—	27	23	—	—	27	28		
6	—	—	32	24	—	—	32	30	—	—	33	—	—	33	6	—	—	33	12			
7	—	—	38	4	—	—	38	11	—	—	38	18	—	—	38	25	—	—	38	32		
8	—	1	3	20	—	1	3	28	—	1	4	—	—	1	4	8	—	—	1	4	16	
9	—	1	9	—	—	1	9	9	—	1	9	18	—	—	1	9	27	—	—	1	10	—
10	—	1	14	16	—	1	14	26	—	1	15	—	—	1	15	10	—	—	1	15	20	
20	—	2	28	32	—	2	29	16	—	2	30	—	—	2	30	20	—	—	2	31	4	
30	1	—	3	12	1	—	4	6	1	—	5	—	—	1	—	5	30	1	—	6	24	
40	1	1	17	28	1	1	18	32	1	1	20	—	—	1	1	21	4	1	1	22	8	
50	1	2	32	8	1	2	33	22	1	2	35	—	—	1	2	36	14	1	2	37	28	
60	2	—	6	24	2	—	8	12	2	—	10	—	—	2	—	11	24	2	—	13	12	
70	2	1	21	4	2	1	23	2	2	1	25	—	—	2	1	26	34	2	1	28	32	
80	2	2	35	20	2	2	37	28	2	3	—	—	—	2	3	2	8	2	3	4	16	
90	3	—	10	—	3	—	12	18	3	—	15	—	—	3	—	17	18	3	—	20	—	
100	3	1	24	16	3	1	27	8	3	1	30	—	—	3	1	32	28	3	1	35	20	
200	6	3	8	32	6	3	14	16	6	3	20	—	—	6	3	25	20	6	3	31	4	
300	10	—	33	12	10	1	1	24	10	1	10	—	—	10	1	18	12	10	1	26	24	
400	13	2	17	28	13	2	28	32	13	3	—	—	—	13	3	11	4	13	3	22	8	
500	17	—	2	8	17	—	16	4	17	—	30	—	—	17	1	3	32	17	1	17	28	
600	20	1	26	24	20	2	3	12	20	2	20	—	—	20	2	36	24	20	3	13	12	

Ells Wide.	201 Ells Long.				202 Ells Long.				203 Ells Long.				204 Ells Long.				205 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	5	21	—	—	5	22	—	—	5	23	—	—	5	24	—	—	5	25	
2	—	—	11	6	—	—	11	8	—	—	11	10	—	—	11	12	—	—	11	14	
3	—	—	16	27	—	—	16	30	—	—	16	33	—	—	17	—	—	—	17	3	
4	—	—	22	12	—	—	22	16	—	—	22	20	—	—	22	24	—	—	22	28	
5	—	—	27	33	—	—	28	2	—	—	28	7	—	—	28	12	—	—	28	17	
6	—	—	33	18	—	—	33	24	—	—	33	30	—	—	34	—	—	—	34	6	
7	—	—	39	3	—	—	39	10	—	—	39	17	—	—	39	24	—	—	39	31	
8	—	1	4	24	—	1	4	32	—	1	5	4	—	1	5	12	—	—	1	5	20
9	—	1	10	9	—	1	10	18	—	1	10	27	—	1	11	—	—	—	1	11	9
10	—	1	15	30	—	1	16	4	—	1	16	14	—	1	16	24	—	—	1	16	34
20	—	2	31	24	—	2	32	8	—	2	32	28	—	2	33	12	—	—	2	33	32
30	1	—	7	18	1	—	8	12	1	—	9	6	1	—	10	—	1	—	10	30	
40	1	1	23	12	1	1	24	16	1	1	25	20	1	1	26	24	1	1	27	28	
50	1	2	39	6	1	3	—	20	1	3	1	34	1	3	3	12	1	3	4	26	
60	2	—	15	—	2	—	16	24	2	—	18	12	2	—	20	—	2	—	21	24	
70	2	11	30	30	2	1	32	28	2	1	34	26	2	1	36	24	2	1	38	22	
80	2	3	6	24	2	3	8	32	2	3	11	4	2	3	13	12	2	3	15	20	
90	3	—	22	18	3	—	25	—	3	—	27	18	3	—	30	—	3	—	32	18	
100	3	1	38	12	3	2	1	4	3	2	3	32	3	2	6	24	3	2	9	16	
200	6	3	36	24	7	—	2	8	7	—	7	28	7	—	13	12	7	—	18	32	
300	10	1	35	—	10	2	3	12	10	2	11	24	10	2	20	—	10	2	28	12	
400	13	3	33	12	14	—	4	16	14	—	15	20	14	—	26	24	14	—	37	28	
500	17	1	31	24	17	2	5	20	17	2	19	16	17	2	33	12	17	3	7	8	
600	20	3	30	—	21	—	6	24	21	—	23	12	21	1	—	—	21	1	16	24	

From 206 to 210 Ells Long.

Ells Wide.	206 Ells Long.				207 Ells Long.				208 Ells Long.				209 Ells Long.				210 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	5	26	—	—	5	27	—	—	5	28	—	—	5	29	—	—	5	30
2	—	—	11	16	—	—	11	18	—	—	11	20	—	—	11	22	—	—	11	24
3	—	—	17	6	—	—	17	9	—	—	17	12	—	—	17	15	—	—	17	18
4	—	—	22	32	—	—	23	—	—	—	23	4	—	—	23	8	—	—	23	12
5	—	—	28	22	—	—	28	27	—	—	28	32	—	—	29	1	—	—	29	6
6	—	—	34	12	—	—	34	18	—	—	34	24	—	—	24	30	—	—	35	—
7	—	1	—	2	—	1	—	9	—	1	—	16	—	1	—	23	—	1	—	30
8	—	1	5	28	—	1	6	—	—	1	6	8	—	1	6	16	—	1	6	24
9	—	1	11	18	—	1	11	27	—	1	12	—	—	1	12	9	—	1	12	18
10	—	1	17	8	—	1	17	18	—	1	17	28	—	1	18	2	—	1	18	12
20	—	2	34	16	—	2	35	—	—	2	35	20	—	2	36	4	—	2	36	24
30	1	—	11	24	1	—	12	18	1	—	13	12	1	—	14	6	1	—	15	—
40	1	1	28	32	1	1	30	—	1	1	31	4	1	1	32	8	1	1	33	12
50	1	3	6	4	1	3	7	18	1	3	8	32	1	3	10	10	1	3	11	24
60	2	—	23	12	2	—	25	—	2	—	26	24	2	—	28	12	2	—	30	—
70	2	2	—	20	2	2	2	18	2	2	4	16	2	2	6	14	2	2	8	12
80	2	3	17	28	2	3	20	—	2	3	22	8	2	3	24	16	2	3	26	24
90	3	—	35	—	3	—	37	18	3	1	—	—	3	1	2	18	3	1	5	—
100	3	2	12	8	3	2	15	—	3	2	17	28	3	2	20	20	3	2	23	12
200	7	—	24	16	7	—	30	—	7	—	35	20	7	1	1	4	7	1	6	24
300	10	2	36	24	10	3	5	—	10	3	13	12	10	3	21	24	10	3	30	—
400	14	1	8	32	14	1	20	—	14	1	31	4	14	2	2	8	14	2	13	12
500	17	3	21	4	17	3	35	—	18	—	8	32	18	—	22	28	18	—	36	24
600	21	1	33	12	21	2	10	—	21	2	26	24	21	3	3	12	21	3	20	—

From 211 to 215 Ells Long.

Ells W. of.	211 Ells Long.				212 Ells Long.				213 Ells Long.				214 Ells Long.				215 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	5	31	—	—	5	32	—	—	5	33	—	—	5	34	—	—	5	35
2	—	—	11	26	—	—	11	28	—	—	11	30	—	—	11	32	—	—	11	34
3	—	—	17	21	—	—	17	24	—	—	17	27	—	—	17	30	—	—	17	33
4	—	—	23	16	—	—	23	20	—	—	23	24	—	—	23	28	—	—	23	32
5	—	—	29	11	—	—	29	16	—	—	29	21	—	—	29	26	—	—	29	31
6	—	—	35	6	—	—	35	12	—	—	35	18	—	—	35	24	—	—	35	30
7	—	1	—	37	—	1	1	8	—	1	1	15	—	1	1	22	—	1	1	29
8	—	1	6	32	—	1	7	4	—	1	7	12	—	1	7	20	—	1	7	28
9	—	1	12	27	—	1	13	—	—	1	13	9	—	1	13	18	—	1	13	27
10	—	1	18	22	—	1	18	32	—	1	19	6	—	1	19	16	—	1	19	26
20	—	2	37	8	—	2	37	28	—	2	38	12	—	2	38	32	—	2	39	16
30	1	—	15	30	1	—	16	24	1	—	17	18	1	—	18	12	1	—	19	6
40	1	1	34	16	1	1	35	20	1	1	36	24	1	1	37	28	1	1	38	32
50	1	3	13	2	1	3	14	16	1	3	15	30	1	3	17	8	1	3	18	22
60	2	—	31	24	2	—	33	12	2	—	35	—	2	—	36	24	2	—	38	12
70	2	2	10	10	2	2	12	8	2	2	14	6	2	2	16	4	2	2	18	2
80	2	3	28	32	2	3	31	4	2	3	33	12	2	3	35	20	2	3	37	28
90	3	1	7	18	3	1	10	—	3	1	12	18	3	1	15	—	3	1	17	18
100	3	2	26	4	3	2	28	32	3	2	31	24	3	2	34	16	3	2	37	8
200	7	1	12	8	7	1	17	28	7	1	23	12	7	1	28	32	7	1	34	16
300	10	3	38	12	11	—	6	24	11	—	15	—	11	—	23	12	11	—	31	24
400	14	2	24	16	14	2	35	20	14	3	6	24	14	3	17	28	14	3	28	32
500	18	1	10	20	18	1	24	16	18	1	38	12	18	2	12	8	18	2	26	4
600	21	3	36	24	22	—	13	12	22	—	30	—	22	1	6	24	22	1	23	12

From 216 to 220 Ells Long.

Ells Wide.	216 Ells Lon.				217 Ells Long.				218 Ells Long.				219 Ells Long.				220 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	6	—	—	—	6	1	—	—	6	2	—	—	6	3	—	—	6	4
2	—	—	12	—	—	—	12	2	—	—	12	4	—	—	12	6	—	—	12	8
3	—	—	18	—	—	—	18	3	—	—	18	6	—	—	18	9	—	—	18	12
4	—	—	24	—	—	—	24	4	—	—	24	8	—	—	24	12	—	—	24	16
5	—	—	30	—	—	—	30	5	—	—	30	10	—	—	30	15	—	—	30	20
6	—	—	36	—	—	—	36	6	—	—	36	12	—	—	36	18	—	—	36	24
7	—	1	2	—	—	1	2	7	—	1	2	14	—	1	2	21	—	1	2	28
8	—	1	8	—	—	1	8	8	—	1	8	16	—	1	8	24	—	1	8	32
9	—	1	14	—	—	1	14	9	—	1	14	18	—	1	14	27	—	1	15	—
10	—	1	20	—	—	1	20	10	—	1	20	20	—	1	20	30	—	1	21	4
20	—	3	—	—	—	3	—	20	—	3	1	4	—	3	1	24	—	3	2	8
30	1	—	20	—	1	—	20	30	1	—	21	24	1	—	22	18	1	—	23	12
40	1	2	—	—	1	2	1	4	1	2	2	8	1	2	3	12	1	2	4	16
50	1	3	20	—	1	3	21	14	1	3	22	28	1	3	24	6	1	3	25	20
60	2	1	—	—	2	1	1	24	2	1	3	12	2	1	5	—	2	1	6	24
70	2	2	20	—	2	2	21	34	2	2	23	32	2	2	25	30	2	2	27	28
80	3	—	—	—	3	—	2	8	3	—	4	16	3	—	6	24	3	—	8	32
90	3	1	20	—	3	1	22	18	3	1	25	—	3	1	27	18	3	1	30	—
100	3	3	—	—	3	3	2	28	3	3	5	20	3	3	8	12	3	3	11	4
200	7	2	—	—	7	2	5	20	7	2	11	4	7	2	16	24	7	2	22	8
300	11	1	—	—	11	1	8	12	11	1	16	24	11	1	25	—	11	1	33	12
400	15	—	—	—	15	—	11	4	15	—	22	8	15	—	33	12	15	1	4	16
500	18	3	—	—	18	3	13	32	18	3	27	28	19	—	1	24	19	—	15	20
600	22	2	—	—	22	2	16	24	22	2	33	12	22	3	10	—	22	3	26	24

Ells Wide.	221 Ells Long.				222 Ells Long.				223 Ells Long.				224 Ells Long.				225 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	6	5	—	—	6	6	—	—	6	7	—	—	6	8	—	—	6	9	
2	—	—	12	10	—	—	12	12	—	—	12	14	—	—	12	16	—	—	12	18	
3	—	—	18	15	—	—	18	18	—	—	18	21	—	—	18	24	—	—	18	27	
4	—	—	24	20	—	—	24	24	—	—	24	28	—	—	24	32	—	—	25	—	
5	—	—	30	25	—	—	30	30	—	—	30	35	—	—	31	4	—	—	31	9	
6	—	—	36	30	—	—	37	—	—	—	37	6	—	—	37	12	—	—	37	18	
7	—	1	2	35	—	1	3	6	—	1	3	13	—	1	3	20	—	—	1	3	27
8	—	1	9	4	—	1	9	12	—	1	9	20	—	1	9	28	—	—	1	10	—
9	—	1	15	9	—	1	15	18	—	1	15	27	—	1	16	—	—	—	1	16	9
10	—	1	21	14	—	1	21	24	—	1	21	34	—	1	22	8	—	—	1	22	18
20	—	3	2	28	—	3	3	12	—	3	3	32	—	3	4	16	—	—	3	5	—
30	1	—	24	6	1	—	25	—	1	—	25	30	1	—	26	24	1	—	27	18	
40	1	2	5	20	1	2	6	24	1	2	7	28	1	2	8	32	1	2	10	—	
50	1	3	26	34	1	3	28	12	1	3	29	26	1	3	31	4	1	3	32	18	
60	2	1	8	12	2	1	10	—	2	1	11	24	2	1	13	12	2	1	15	—	
70	2	2	29	26	2	2	31	24	2	2	33	22	2	2	35	20	2	2	37	18	
80	3	—	11	4	3	—	13	12	3	—	15	20	3	—	17	28	3	—	20	—	
90	3	1	32	18	3	1	35	—	3	1	37	18	3	2	—	—	3	2	2	18	
100	3	3	13	32	3	3	16	24	3	3	19	16	3	3	22	8	3	3	25	—	
200	7	2	27	28	7	2	33	12	7	2	38	32	7	3	4	16	7	3	10	—	
300	11	2	1	24	11	2	10	—	11	2	18	12	11	2	26	24	11	2	35	—	
400	15	1	15	20	15	1	26	24	15	1	37	28	15	2	8	32	15	2	20	—	
500	19	—	29	16	19	1	3	12	19	1	17	8	19	1	31	4	19	2	5	—	
600	23	—	3	12	23	—	20	—	23	—	36	24	23	1	13	12	23	1	30	—	

Ells Wide.	226 Ells Long.				227 Ells Long.				228 Ells Long.				229 Ells Long.				230 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	6	10	—	—	6	11	—	—	6	12	—	—	6	13	—	—	6	14
2	—	—	12	20	—	—	12	22	—	—	12	24	—	—	12	26	—	—	12	28
3	—	—	18	30	—	—	18	33	—	—	19	—	—	—	19	3	—	—	19	6
4	—	—	25	4	—	—	25	8	—	—	25	12	—	—	25	16	—	—	25	20
5	—	—	31	14	—	—	31	19	—	—	31	24	—	—	31	29	—	—	31	34
6	—	—	37	24	—	—	37	30	—	—	38	—	—	—	38	6	—	—	38	12
7	—	1	3	34	—	1	4	5	—	1	4	12	—	1	4	19	—	1	4	26
8	—	1	10	8	—	1	10	16	—	1	10	24	—	1	10	32	—	1	11	4
9	—	1	16	18	—	1	16	27	—	1	17	—	—	1	17	9	—	1	17	18
10	—	1	22	28	—	1	23	2	—	1	23	12	—	1	23	22	—	1	23	32
20	—	3	5	20	—	3	6	4	—	3	6	24	—	3	7	8	—	3	7	28
30	1	—	28	12	1	—	29	6	1	—	30	—	1	—	30	30	1	—	31	24
40	1	2	11	4	1	2	12	8	1	2	13	12	1	2	14	16	1	2	15	20
50	1	3	33	32	1	3	35	10	1	3	36	24	1	3	38	2	1	3	39	16
60	2	1	16	24	2	1	18	12	2	1	20	—	2	1	21	24	2	1	23	12
70	2	2	39	16	2	3	1	14	2	3	3	12	2	3	5	10	2	3	7	8
80	3	—	22	8	3	—	24	16	3	—	26	24	3	—	28	32	3	—	31	4
90	3	2	5	—	3	2	7	18	3	2	10	—	3	2	12	18	3	2	15	—
100	3	3	27	28	3	3	30	20	3	3	33	12	3	3	36	4	3	3	38	32
200	7	3	15	20	7	3	21	4	7	3	26	24	7	3	32	8	7	3	37	28
300	11	3	3	12	11	3	11	24	11	3	20	—	11	3	28	12	11	3	36	24
400	15	2	31	4	15	3	2	8	15	3	13	12	15	3	24	16	15	3	35	20
500	19	2	18	32	19	2	32	28	19	3	6	24	19	3	20	20	19	3	34	16
600	23	2	6	24	23	2	23	12	23	3	—	—	23	3	16	24	23	3	33	12

Ells Wide.	231 Ells Long.				232 Ells Long.				233 Ells Long.				234 Ells Long.				235 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	6	15	—	—	6	16	—	—	6	17	—	—	6	18	—	—	6	19		
2	—	—	12	30	—	—	12	32	—	—	12	34	—	—	13	—	—	—	13	2		
3	—	—	19	9	—	—	19	12	—	—	19	15	—	—	19	18	—	—	19	21		
4	—	—	25	24	—	—	25	28	—	—	25	32	—	—	26	—	—	—	26	4		
5	—	—	32	3	—	—	32	8	—	—	32	13	—	—	32	18	—	—	32	23		
6	—	—	38	18	—	—	38	24	—	—	38	30	—	—	39	—	—	—	39	6		
7	—	1	4	33	—	1	5	4	—	1	5	11	—	1	5	18	—	1	5	25		
8	—	1	11	12	—	1	11	20	—	1	11	28	—	1	12	—	—	—	1	12	8	
9	—	1	17	27	—	1	18	—	—	1	18	9	—	1	18	18	—	—	1	18	27	
10	—	1	24	6	—	1	24	16	—	1	24	26	—	1	25	—	—	—	1	25	10	
20	—	3	8	12	—	3	8	32	—	3	9	16	—	3	10	—	—	—	3	10	20	
30	1	—	32	18	1	—	33	12	1	—	34	6	1	—	35	—	—	—	1	—	35	30
40	1	2	16	24	1	2	17	28	1	2	18	32	1	2	20	—	—	—	1	2	21	4
50	2	—	—	30	2	—	2	8	2	—	3	22	2	—	5	—	—	—	2	—	6	14
60	2	1	25	—	2	1	26	24	2	1	28	12	2	1	30	—	—	—	2	1	31	24
70	2	3	9	6	2	3	11	4	2	3	13	2	2	3	15	—	—	—	2	3	16	34
80	3	—	33	12	3	—	35	20	3	—	37	28	3	1	—	—	—	—	3	1	2	8
90	3	2	17	18	3	2	20	—	3	2	22	18	3	2	25	—	—	—	3	2	27	18
100	4	—	1	24	4	—	4	16	4	—	7	8	4	—	10	—	—	—	4	—	12	28
200	8	—	3	12	8	—	8	32	8	—	14	16	8	—	20	—	—	—	8	—	25	20
300	12	—	5	—	12	—	13	12	12	—	21	24	12	—	30	—	—	—	12	—	38	12
400	16	—	6	24	16	—	17	28	16	—	28	32	16	1	—	—	—	—	16	1	11	4
500	20	—	8	12	20	—	22	8	20	—	36	4	20	1	10	—	—	—	20	1	23	32
600	24	—	10	—	24	—	26	24	24	1	3	12	24	1	20	—	—	—	24	1	36	24

Ells Wide.	236				237				238				239				240			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	6	20	—	—	6	21	—	—	6	22	—	—	6	23	—	—	6	24
2	—	—	13	4	—	—	13	6	—	—	13	8	—	—	13	10	—	—	13	12
3	—	—	19	24	—	—	19	27	—	—	19	30	—	—	19	33	—	—	20	—
4	—	—	26	8	—	—	26	12	—	—	26	16	—	—	26	20	—	—	26	24
5	—	—	32	28	—	—	32	33	—	—	33	2	—	—	33	7	—	—	33	12
6	—	—	39	12	—	—	39	18	—	—	39	24	—	—	39	30	—	1	—	—
7	—	1	5	32	—	1	6	3	—	1	6	10	—	1	6	17	—	1	6	24
8	—	1	12	16	—	1	12	24	—	1	12	32	—	1	13	4	—	1	13	12
9	—	1	19	—	—	1	19	9	—	1	19	18	—	1	19	27	—	1	20	—
10	—	1	25	20	—	1	25	30	—	1	26	4	—	1	26	14	—	1	26	24
20	—	3	11	4	—	3	11	24	—	3	12	8	—	3	12	28	—	3	13	12
30	1	—	36	24	1	—	37	18	1	—	38	12	1	—	39	6	1	1	—	—
40	1	2	22	8	1	2	23	12	1	2	24	16	1	2	25	20	1	2	26	24
50	2	—	7	28	2	—	9	6	2	—	10	20	2	—	11	34	2	—	13	12
60	2	1	33	12	2	1	35	—	2	1	36	24	2	1	38	12	2	2	—	—
70	2	3	18	32	2	3	20	30	2	3	22	28	2	3	24	26	2	3	26	24
80	3	1	4	16	3	1	6	24	3	1	8	32	3	1	11	4	3	1	13	12
90	3	2	30	—	3	2	32	18	3	2	35	—	3	2	37	18	3	3	—	—
100	4	—	15	20	4	—	18	12	4	—	21	4	4	—	23	32	4	—	26	24
200	8	—	31	4	8	—	36	24	8	1	2	8	8	1	7	28	8	1	13	12
300	12	1	6	24	12	1	15	—	12	1	23	12	12	1	31	24	12	2	—	—
400	16	1	22	8	16	1	33	12	16	2	4	16	16	2	15	20	16	2	26	24
500	20	1	37	28	20	2	11	24	20	2	25	20	20	2	39	16	20	3	13	12
600	24	2	13	12	24	2	30	—	24	3	6	24	24	3	23	12	25	—	—	—

Ells Wide.	241 Ells Long.				242 Ells Long.				243 Ells Long.				244 Ells Long.				245 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	6	25	—	—	6	26	—	—	6	27	—	—	6	28	—	—	6	29	
2	—	—	13	14	—	—	13	16	—	—	13	18	—	—	13	20	—	—	13	22	
3	—	—	20	3	—	—	20	6	—	—	20	9	—	—	20	12	—	—	20	15	
4	—	—	26	28	—	—	26	32	—	—	27	—	—	—	27	4	—	—	27	8	
5	—	—	33	17	—	—	33	22	—	—	33	27	—	—	33	32	—	—	34	1	
6	—	1	—	6	—	1	—	12	—	1	—	18	—	1	—	24	—	1	—	30	
7	—	1	6	31	—	1	7	2	—	1	7	9	—	1	7	16	—	1	7	23	
8	—	1	13	20	—	1	13	28	—	1	14	—	—	1	14	8	—	1	14	16	
9	—	1	20	9	—	1	20	18	—	1	20	27	—	1	21	—	—	1	21	9	
10	—	1	26	34	—	1	27	8	—	1	27	18	—	1	27	28	—	1	28	2	
20	—	3	13	32	—	3	14	16	—	3	15	—	—	3	15	20	—	3	16	4	
30	1	1	—	30	1	1	1	24	1	1	2	18	1	1	3	12	1	1	4	6	
40	1	2	27	28	1	2	28	32	1	2	30	—	—	1	2	31	4	1	2	32	8
50	2	—	14	26	2	—	16	4	2	—	17	18	2	—	18	32	2	—	20	10	
60	2	2	1	24	2	2	3	12	2	2	5	—	—	2	2	6	24	2	2	8	12
70	2	3	28	22	2	3	30	20	2	3	32	18	2	3	34	16	2	3	36	14	
80	3	1	15	20	3	1	17	28	3	1	20	—	—	3	1	22	8	3	1	24	16
90	3	3	2	18	3	3	5	—	3	3	7	18	3	3	10	—	3	3	12	18	
100	4	—	29	16	4	—	32	8	4	—	35	—	—	4	—	37	28	4	1	—	20
200	8	1	18	32	8	1	24	16	8	1	30	—	—	8	1	35	20	8	2	1	4
300	12	2	8	12	12	2	16	24	12	2	25	—	—	12	2	33	12	12	3	1	24
400	16	2	37	28	16	3	8	32	16	3	20	—	—	16	3	31	4	17	—	2	8
500	20	3	27	8	21	—	1	4	21	—	15	—	—	21	—	28	32	21	1	2	24
600	25	—	16	24	25	—	33	12	25	1	10	—	—	25	1	26	24	25	2	3	12

Ells Wide.	246				247				248				249				250			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	6	30	—	—	6	31	—	—	6	32	—	—	6	33	—	—	6	34
2	—	—	13	24	—	—	13	26	—	—	13	28	—	—	13	30	—	—	13	32
3	—	—	20	18	—	—	20	21	—	—	20	24	—	—	20	27	—	—	20	30
4	—	—	27	12	—	—	27	16	—	—	27	20	—	—	27	24	—	—	27	28
5	—	—	34	6	—	—	34	11	—	—	34	16	—	—	34	21	—	—	34	26
6	—	1	1	—	—	1	1	6	—	1	1	12	—	1	1	18	—	1	1	24
7	—	1	7	30	—	1	8	1	—	1	8	8	—	1	8	15	—	1	8	22
8	—	1	14	24	—	1	14	32	—	1	15	4	—	1	15	12	—	1	15	20
9	—	1	21	18	—	1	21	27	—	1	22	—	—	1	22	9	—	1	22	18
10	—	1	28	12	—	1	28	22	—	1	28	32	—	1	29	6	—	1	29	16
20	—	3	16	24	—	3	17	8	—	3	17	28	—	3	18	12	—	3	18	32
30	1	1	5	—	1	1	5	30	1	1	6	24	1	1	7	18	1	1	8	12
40	1	2	33	12	1	2	34	16	1	2	35	20	1	2	36	24	1	2	37	28
50	2	—	21	24	2	—	23	2	2	—	24	16	2	—	25	30	2	—	27	8
60	2	2	10	—	2	2	11	24	2	2	13	12	2	2	15	—	2	2	16	24
70	2	3	38	12	3	—	—	10	3	—	2	8	3	—	4	6	3	—	6	4
80	3	1	26	24	3	1	28	32	3	1	31	4	3	1	33	12	3	1	35	20
90	3	3	15	—	3	3	17	18	3	3	20	—	3	3	22	18	3	3	25	—
100	4	1	3	12	4	1	6	4	4	1	8	32	4	1	11	24	4	1	14	16
200	8	2	6	24	8	2	12	8	8	2	17	28	8	2	23	12	8	2	28	32
300	12	3	10	—	12	3	18	12	12	3	26	24	12	3	35	—	13	—	3	12
400	17	—	13	12	17	—	24	16	17	—	35	20	17	1	6	24	17	1	17	28
500	21	1	16	24	21	1	30	20	21	2	4	16	21	2	18	12	21	2	32	8
600	25	2	20	—	25	2	36	24	25	3	13	12	25	3	30	—	26	—	6	24

From 251 to 255 Ells Long.

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Ells Wide.	251 Ells Long.				252 Ells Long.				253 Ells Long.				254 Ells Long.				255 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	6	35	—	—	7	—	—	—	7	1	—	—	7	2	—	—	7	3	
2	—	—	13	34	—	—	14	—	—	—	14	2	—	—	14	4	—	—	14	6	
3	—	—	20	33	—	—	21	—	—	—	21	3	—	—	21	6	—	—	21	9	
4	—	—	27	32	—	—	28	—	—	—	28	4	—	—	28	8	—	—	28	12	
5	—	—	34	31	—	—	35	—	—	—	35	5	—	—	35	10	—	—	35	15	
6	—	1	1	30	—	1	2	—	—	1	2	6	—	1	2	12	—	1	2	18	
7	—	1	8	29	—	1	9	—	—	1	9	7	—	1	9	14	—	1	9	21	
8	—	1	15	28	—	1	16	—	—	1	16	8	—	1	16	16	—	1	16	24	
9	—	1	22	27	—	1	23	—	—	1	23	9	—	1	23	18	—	1	23	27	
10	—	1	29	26	—	1	30	—	—	1	30	10	—	1	30	20	—	1	30	30	
20	—	3	19	16	—	3	20	—	—	3	20	20	—	3	21	4	—	3	21	24	
30	1	1	9	6	1	1	10	—	—	1	1	10	30	1	1	11	24	1	1	12	18
40	1	2	38	32	1	3	—	—	—	1	3	1	4	1	3	2	8	1	3	3	12
50	2	—	28	22	2	—	30	—	—	2	—	31	14	2	—	32	28	2	—	34	6
60	2	2	18	12	2	2	20	—	—	2	2	21	24	2	2	23	12	2	2	25	—
70	3	—	8	2	3	—	10	—	—	3	—	11	34	3	—	13	32	3	—	15	30
80	3	1	37	28	3	2	—	—	—	3	2	2	8	3	2	4	16	3	2	6	24
90	3	3	27	18	3	3	30	—	—	3	3	32	18	3	3	35	—	3	3	37	18
100	4	1	17	8	4	1	20	—	—	4	1	22	28	4	1	25	20	4	1	28	12
200	8	2	34	16	8	3	—	—	—	8	3	5	20	8	3	11	4	8	3	16	24
300	13	—	11	24	13	—	20	—	—	13	—	28	12	13	—	36	24	13	1	5	—
400	17	1	28	32	17	2	—	—	—	17	2	11	4	17	2	22	8	17	2	33	12
500	21	3	6	4	21	3	20	—	—	21	3	33	32	22	—	7	28	22	—	21	24
600	26	—	23	12	26	1	—	—	—	26	1	16	24	26	1	33	12	26	2	10	—

From 256 to 260 Ells Long.

Ells Wide.	256 Ells Long.				257 Ells Long.				258 Ells Long.				259 Ells Long.				260 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	7	4	—	—	7	5	—	—	7	6	—	—	7	7	—	—	7	8
2	—	—	14	8	—	—	14	10	—	—	14	12	—	—	14	14	—	—	14	16
3	—	—	21	12	—	—	21	15	—	—	21	18	—	—	21	21	—	—	21	24
4	—	—	28	16	—	—	28	20	—	—	28	24	—	—	28	28	—	—	28	32
5	—	—	35	20	—	—	35	25	—	—	35	30	—	—	35	35	—	—	36	4
6	—	1	2	24	—	1	2	30	—	1	3	—	—	1	3	6	—	1	3	12
7	—	1	9	28	—	1	9	35	—	1	10	6	—	1	10	13	—	1	10	20
8	—	1	16	32	—	1	17	4	—	1	17	12	—	1	17	20	—	1	17	28
9	—	1	24	—	—	1	24	9	—	1	24	18	—	1	24	27	—	1	25	—
10	—	1	31	4	—	1	31	14	—	1	31	24	—	1	31	34	—	1	32	8
20	—	3	22	8	—	3	22	28	—	3	23	12	—	3	23	32	—	3	24	16
30	1	1	13	12	1	1	14	6	1	1	15	—	1	1	15	30	1	1	16	24
40	1	3	4	16	1	3	5	20	1	3	6	24	1	3	7	28	1	3	8	32
50	2	—	35	20	1	—	36	34	2	—	38	12	2	—	39	26	2	1	1	4
60	2	2	26	24	2	2	28	12	2	2	30	—	2	2	31	24	2	2	33	12
70	3	—	17	28	3	—	19	26	3	—	21	24	3	—	23	22	3	—	25	20
80	3	2	8	32	3	2	11	4	3	2	13	12	3	2	15	20	3	2	17	28
90	4	—	—	—	4	—	2	18	4	—	5	—	4	—	7	18	4	—	10	—
100	4	1	31	4	4	1	33	32	4	1	36	24	4	1	39	16	4	2	2	8
200	8	3	22	8	8	3	27	28	8	3	33	12	8	3	38	32	9	—	4	16
300	13	1	13	12	13	1	21	24	13	1	30	—	13	1	38	12	13	2	6	24
400	17	3	4	16	17	3	15	20	17	3	26	24	17	3	37	28	18	—	8	32
500	22	—	35	20	22	1	9	16	22	1	23	12	22	1	37	8	22	2	11	4
600	26	2	26	24	26	3	3	12	26	3	20	—	26	3	36	24	27	—	13	12

Ells Wide.	261 Ells Long.				262 Ells Long.				263 Ells Long.				264 Ells Long.				265 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	7	9	—	—	7	10	—	—	7	11	—	—	7	12	—	—	7	13
2	—	—	14	18	—	—	14	20	—	—	14	22	—	—	14	24	—	—	14	26
3	—	—	21	27	—	—	21	30	—	—	21	33	—	—	22	—	—	—	22	3.
4	—	—	29	—	—	—	29	4	—	—	29	8	—	—	29	12	—	—	29	16
5	—	—	36	9	—	—	36	14	—	—	36	19	—	—	36	24	—	—	36	29
6	—	1	3	18	—	1	3	24	—	1	3	30	—	1	4	—	—	1	4	6
7	—	1	10	27	—	1	10	34	—	1	11	5	—	1	11	12	—	1	11	19
8	—	1	18	—	—	1	18	8	—	1	18	16	—	1	18	24	—	1	18	32
9	—	1	25	9	—	1	25	18	—	1	25	27	—	1	26	—	—	1	26	9
10	—	1	32	18	—	1	32	28	—	1	33	2	—	1	33	12	—	1	33	22
20	—	3	25	—	—	3	25	20	—	3	26	4	—	3	26	24	—	3	27	8
30	1	1	17	18	1	1	18	12	1	1	19	6	1	1	20	—	1	1	20	30
40	1	3	10	—	1	3	11	4	1	3	12	8	1	3	13	12	1	3	14	16
50	2	1	2	18	2	1	3	32	2	1	5	10	2	1	6	24	2	1	8	2
60	2	2	35	—	2	2	36	24	2	2	38	12	2	3	—	—	2	3	1	24
70	3	—	27	18	3	—	29	16	3	—	31	14	3	—	33	12	3	—	35	10
80	3	2	20	—	3	2	22	8	3	2	24	16	3	2	26	24	3	2	28	32
90	4	—	12	18	4	—	15	—	4	—	17	18	4	—	20	—	4	—	22	18
100	4	2	5	—	4	2	7	28	4	2	10	20	4	2	13	12	4	2	16	4
200	9	—	10	—	9	—	15	20	9	—	21	4	9	—	26	24	9	—	32	8
300	13	2	15	—	13	2	23	12	13	2	31	24	13	3	—	—	13	3	8	12
400	18	—	20	—	18	—	31	4	18	1	2	8	18	1	13	12	18	1	24	16
500	22	2	25	—	22	2	38	32	22	3	12	28	22	3	26	24	23	—	—	20
600	27	—	30	—	27	1	6	24	27	1	23	12	27	2	—	—	27	2	16	24

Ells Wide	266 Ells Long.				267 Ells Long.				268 Ells Long.				269 Ells Long.				270 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	7	14	—	—	7	15	—	—	7	16	—	—	7	17	—	—	7	18
2	—	—	14	28	—	—	14	30	—	—	14	32	—	—	14	34	—	—	15	—
3	—	—	22	6	—	—	22	9	—	—	22	12	—	—	22	15	—	—	22	18
4	—	—	29	20	—	—	29	24	—	—	29	28	—	—	29	32	—	—	30	—
5	—	—	36	34	—	—	37	3	—	—	37	8	—	—	37	13	—	—	37	18
6	—	1	4	12	—	1	4	18	—	1	4	24	—	1	4	30	—	1	5	—
7	—	1	11	26	—	1	11	33	—	1	12	4	—	1	12	11	→	1	12	18
8	—	1	19	4	—	1	19	12	—	1	19	20	—	1	19	28	—	1	20	—
9	—	1	26	18	—	1	26	27	—	1	27	—	—	1	27	9	—	1	27	18
10	—	1	33	32	—	1	34	6	—	1	34	16	—	1	34	26	—	1	35	—
20	—	3	27	28	—	3	28	12	—	3	28	32	—	3	29	16	—	3	30	—
30	1	1	21	24	1	1	22	18	1	1	23	12	1	1	24	6	1	1	25	—
40	1	3	15	20	1	3	16	24	1	3	17	28	1	3	18	32	1	3	20	—
50	2	1	9	16	2	1	10	30	2	1	12	8	2	1	13	22	2	1	15	—
60	2	3	3	12	2	3	5	—	2	3	6	24	2	3	8	12	2	3	10	—
70	3	—	37	8	3	—	39	6	3	1	1	4	3	1	3	2	3	1	5	—
80	3	2	31	4	3	2	33	12	3	2	35	20	3	2	37	28	3	3	—	—
90	4	—	25	—	4	—	27	18	4	—	30	—	4	—	32	18	4	—	35	—
100	4	2	18	32	4	2	21	24	4	2	24	16	4	2	27	8	4	2	30	—
200	9	—	37	28	9	1	3	12	9	1	8	32	9	1	14	16	9	1	20	—
300	13	3	16	24	13	3	25	—	13	3	33	12	14	—	1	24	14	—	10	—
400	18	1	35	20	18	2	6	24	18	2	17	28	18	2	28	32	18	3	—	—
500	23	—	14	16	23	—	28	12	23	1	2	8	23	1	16	4	23	1	30	—
600	27	2	33	12	27	3	10	—	27	3	26	24	28	—	3	12	28	—	20	—

Ells Wide.	271 Ells Long.				272 Ells Long.				273 Ells Long.				274 Ells Long.				275 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	7	19	—	—	7	20	—	—	7	21	—	—	7	22	—	—	7	23
2	—	—	15	2	—	—	15	4	—	—	15	6	—	—	15	8	—	—	15	10
3	—	—	22	21	—	—	22	24	—	—	22	27	—	—	22	30	—	—	22	33
4	—	—	30	4	—	—	30	8	—	—	30	12	—	—	30	16	—	—	30	20
5	—	—	37	23	—	—	37	28	—	—	37	33	—	—	38	2	—	—	38	7
6	—	1	5	6	—	1	5	12	—	1	5	18	—	1	5	24	—	1	5	30
7	—	1	12	25	—	1	12	32	—	1	13	3	—	1	13	10	—	1	13	17
8	—	1	20	8	—	1	20	16	—	1	20	24	—	1	20	32	—	1	21	4
9	—	1	27	27	—	1	28	—	—	1	28	9	—	1	28	18	—	1	28	27
10	—	1	35	10	—	1	35	20	—	1	35	30	—	1	36	4	—	1	36	14
20	—	3	30	20	—	3	31	4	—	3	31	24	—	3	32	8	—	3	32	28
30	1	1	25	30	1	1	26	24	1	1	27	18	1	1	28	12	1	1	29	6
40	1	3	21	4	1	3	22	8	1	3	23	12	1	3	24	16	1	3	25	20
50	2	1	16	14	2	1	17	28	2	1	19	6	2	1	20	20	2	1	21	34
60	2	3	11	24	2	3	13	12	2	3	15	—	2	3	16	24	2	3	18	12
70	3	1	6	34	3	1	8	32	3	1	10	30	3	1	12	28	3	1	14	26
80	3	3	2	8	3	3	4	16	3	3	6	24	3	3	8	32	3	3	11	4
90	4	—	37	18	4	1	—	—	4	1	2	18	4	1	5	—	4	1	7	18
100	4	2	32	28	4	2	35	20	4	2	38	12	4	3	1	4	4	3	3	32
200	9	1	25	20	9	1	31	4	9	1	36	24	9	2	2	8	9	2	7	28
300	14	—	18	12	14	—	26	24	14	—	35	—	14	1	3	12	14	1	11	24
400	18	3	11	4	18	3	22	8	18	3	33	12	19	—	4	16	19	—	15	20
500	23	2	3	32	23	2	17	28	23	2	31	24	23	3	5	20	23	3	19	16
600	28	—	36	24	28	1	13	12	28	1	30	—	28	2	6	24	28	2	23	12

Ells Wide.	276 Ells Long.				277 Ells Long.				278 Ells Long.				279 Ells Long.				280 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	7	24	—	—	7	25	—	—	7	26	—	—	7	27	—	—	7	28		
2	—	—	15	12	—	—	15	14	—	—	15	16	—	—	15	18	—	—	15	20		
3	—	—	23	—	—	—	23	3	—	—	23	6	—	—	23	9	—	—	23	12		
4	—	—	30	24	—	—	30	28	—	—	30	32	—	—	31	—	—	—	31	4		
5	—	—	38	12	—	—	38	17	—	—	38	22	—	—	38	27	—	—	38	32		
6	—	1	6	—	—	1	6	6	—	1	6	12	—	1	6	18	—	—	1	6	24	
7	—	1	13	24	—	1	13	31	—	1	14	2	—	1	14	9	—	—	1	14	16	
8	—	1	21	12	—	1	21	20	—	1	21	28	—	1	22	—	—	—	1	22	8	
9	—	1	29	—	—	1	29	9	—	1	29	18	—	1	29	27	—	—	1	30	—	
10	—	1	36	24	—	1	36	34	—	1	37	8	—	1	37	18	—	—	1	37	28	
20	—	3	33	12	—	3	33	32	—	3	34	16	—	3	35	—	—	—	3	35	20	
30	1	1	30	—	1	1	30	30	1	1	31	24	1	1	32	18	1	1	33	12		
40	1	3	26	24	1	3	27	28	1	3	28	32	1	3	30	—	—	—	1	3	31	4
50	2	1	23	12	2	1	24	26	2	1	26	4	2	1	27	18	2	1	28	32		
60	2	3	20	—	2	3	21	24	2	3	23	12	2	3	25	—	—	—	2	3	26	24
70	3	1	16	24	3	1	18	22	3	1	20	20	3	1	22	18	3	1	24	16		
80	3	3	13	12	3	3	15	20	3	3	17	28	3	3	20	—	—	—	3	3	22	8
90	4	1	10	—	4	1	12	18	4	1	15	—	4	1	17	18	4	1	20	—		
100	4	3	6	24	4	3	9	16	4	3	12	8	4	3	15	—	—	—	4	3	17	28
200	9	2	13	12	9	2	18	32	9	2	24	16	9	2	30	—	—	—	9	2	35	20
300	14	1	20	—	14	1	28	12	14	1	36	24	14	2	5	—	—	—	14	2	13	12
400	19	—	26	24	19	—	37	28	19	1	8	32	19	1	20	—	—	—	19	1	31	4
500	23	3	33	12	24	—	7	8	24	—	21	4	24	—	35	—	—	—	24	1	8	32
600	28	3	—	—	28	3	16	24	28	3	33	12	29	—	10	—	—	—	29	—	26	24

Ells Wide.	281 Ells Long.				282 Ells Long.				283 Ells Long.				284 Ells Long.				285 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	7	29	—	—	7	30	—	—	7	31	—	—	7	32	—	—	7	33
2	—	—	15	22	—	—	15	24	—	—	15	26	—	—	15	28	—	—	15	30
3	—	—	23	15	—	—	23	18	—	—	23	21	—	—	23	24	—	—	23	27
4	—	—	31	8	—	—	31	12	—	—	31	16	—	—	31	20	—	—	31	24
5	—	—	39	1	—	—	39	6	—	—	39	11	—	—	39	16	—	—	39	21
6	—	1	6	30	—	1	7	—	—	1	7	6	—	1	7	12	—	1	7	18
7	—	1	14	23	—	1	14	30	—	1	15	1	—	1	15	8	—	1	15	15
8	—	1	22	16	—	1	22	24	—	1	22	32	—	1	23	4	—	1	23	12
9	—	1	30	9	—	1	30	18	—	1	30	27	—	1	31	—	—	1	31	9
10	—	1	38	2	—	1	38	12	—	1	38	22	—	1	38	32	—	1	39	6
20	—	3	36	4	—	3	36	24	—	3	37	8	—	3	37	28	—	3	38	12
30	1	1	34	6	1	1	35	—	1	1	35	30	1	1	36	24	1	1	37	18
40	1	3	32	8	1	3	33	12	1	3	34	16	1	3	35	20	1	3	36	24
50	2	1	30	10	2	1	31	24	2	1	33	2	2	1	34	16	2	1	35	30
60	2	3	28	12	2	3	30	—	2	3	31	24	2	3	33	12	2	3	35	—
70	3	1	26	14	3	1	28	12	3	1	30	10	3	1	32	8	3	1	34	6
80	3	3	24	16	3	3	26	24	3	3	28	32	3	3	31	4	3	3	33	12
90	4	1	22	18	4	1	25	—	4	1	27	18	4	1	30	—	4	1	32	18
100	4	3	20	20	4	3	23	12	4	3	26	4	4	3	28	32	4	3	31	24
200	9	3	1	4	9	3	6	24	9	3	12	8	9	3	17	28	9	3	23	12
300	14	2	21	24	14	2	30	—	14	2	38	12	14	3	6	24	14	3	15	—
400	19	2	2	8	19	2	13	12	19	2	24	16	19	2	35	20	19	3	6	24
500	24	1	22	28	24	1	36	24	24	2	10	20	24	2	24	16	24	2	38	12
600	29	1	3	12	29	1	20	—	29	1	36	24	29	2	13	12	29	2	30	—

Ells Wide.	286				287				288				289				290				
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	7	34	—	—	7	35	—	—	8	—	—	8	1	—	—	8	2		
2	—	—	15	32	—	—	15	34	—	—	16	—	—	16	2	—	—	16	4		
3	—	—	23	30	—	—	23	33	—	—	24	—	—	24	3	—	—	24	6		
4	—	—	31	28	—	—	31	32	—	—	32	—	—	32	4	—	—	32	8		
5	—	—	39	26	—	—	39	31	—	1	—	—	—	1	—	5	—	1	10		
6	—	1	7	24	—	1	7	30	—	1	8	—	—	1	8	6	—	1	8	12	
7	—	1	15	22	—	1	15	29	—	1	16	—	—	1	16	7	—	1	16	14	
8	—	1	23	20	—	1	23	28	—	1	24	—	—	1	24	8	—	1	24	16	
9	—	1	31	18	—	1	31	27	—	1	32	—	—	1	32	9	—	1	32	18	
10	—	1	39	16	—	1	39	26	—	2	—	—	—	2	—	10	—	2	—	20	
20	—	3	38	32	—	3	39	16	1	—	—	—	—	1	—	20	1	—	1	4	
30	1	1	38	12	1	1	39	6	1	2	—	—	—	1	2	—	30	1	2	1	24
40	1	3	37	28	1	3	38	32	2	—	—	—	—	2	—	1	4	2	—	2	8
50	2	1	37	8	2	1	38	22	2	2	—	—	—	2	2	1	14	2	2	2	28
60	2	3	36	24	2	3	38	12	3	—	—	—	—	3	—	1	24	3	—	3	12
70	3	1	36	4	3	1	38	2	3	2	—	—	—	3	2	1	34	3	2	3	32
80	3	3	35	20	3	3	37	28	4	—	—	—	—	4	—	2	8	4	—	4	16
90	4	1	35	—	4	1	37	18	4	2	—	—	—	4	2	2	18	4	2	5	—
100	4	3	34	16	4	3	37	8	5	—	—	—	—	5	—	2	28	5	—	5	20
200	9	3	28	32	9	3	34	16	10	—	—	—	—	10	—	5	20	10	—	11	4
300	14	3	23	12	14	3	31	24	15	—	—	—	—	15	—	8	12	15	—	16	24
400	19	3	17	28	19	2	28	32	20	—	—	—	—	20	—	11	4	20	—	22	8
500	24	3	12	8	24	3	26	4	25	—	—	—	—	25	—	13	32	25	—	27	28
600	29	3	6	24	29	3	23	12	30	—	—	—	—	30	—	16	24	30	—	33	12

Ells Wide.	291 Ells Long.				292 Ells Long.				293 Ells Long.				294 Ells Long.				295 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	3	—	—	8	4	—	—	8	5	—	—	8	6	—	—	8	7
2	—	—	16	6	—	—	16	8	—	—	16	10	—	—	16	12	—	—	16	14
3	—	—	24	9	—	—	24	12	—	—	24	15	—	—	24	18	—	—	24	21
4	—	—	32	12	—	—	32	16	—	—	32	20	—	—	32	24	—	—	32	28
5	—	1	—	15	—	1	—	20	—	1	—	25	—	1	—	30	—	1	—	35
6	—	1	8	18	—	1	8	24	—	1	8	30	—	1	9	—	—	1	9	6
7	—	1	16	21	—	1	16	28	—	1	16	35	—	1	17	6	—	1	17	13
8	—	1	24	24	—	1	24	32	—	1	35	4	—	1	25	12	—	1	25	20
9	—	1	32	27	—	1	33	—	—	1	33	9	—	1	39	18	—	1	33	27
10	—	2	—	30	—	2	1	4	—	2	1	14	—	2	1	24	—	2	1	34
20	1	—	1	24	1	—	2	8	1	—	2	28	1	—	3	12	1	—	3	32
30	1	2	2	18	1	2	3	12	1	2	4	6	1	2	5	—	1	2	5	30
40	2	—	3	12	2	—	4	16	2	—	5	20	2	—	6	24	2	—	7	28
50	2	2	4	6	2	2	5	20	2	2	6	34	2	2	8	12	2	2	9	26
60	3	—	5	—	3	—	6	24	3	—	8	12	3	—	10	—	3	—	11	24
70	3	2	5	30	3	2	7	28	3	2	9	26	3	2	11	24	3	2	13	22
80	4	—	6	24	4	—	8	32	4	—	11	4	4	—	13	12	4	—	15	20
90	4	2	7	18	4	2	10	—	4	2	12	18	4	2	15	—	4	2	17	18
100	5	—	8	12	5	—	11	4	5	—	13	32	5	—	16	24	5	—	19	16
200	10	—	16	24	10	—	22	8	10	—	27	28	10	—	33	12	10	—	38	32
300	15	—	25	—	15	—	33	12	15	1	1	24	15	1	10	—	15	1	18	12
400	20	—	33	12	20	1	4	16	20	1	15	20	20	1	26	24	20	1	37	28
500	25	1	1	24	25	1	15	20	25	1	29	16	25	2	3	12	25	2	17	8
600	30	1	10	—	30	1	26	24	30	2	3	12	30	2	20	—	30	2	36	24

Ells Wide.	296 Ells Long.				297 Ells Long.				298 Ells Long.				299 Ells Long.				300 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	8	—	—	8	9	—	—	8	10	—	—	8	11	—	—	8	12
2	—	—	16	16	—	—	16	18	—	—	16	20	—	—	16	22	—	—	16	24
3	—	—	24	24	—	—	24	27	—	—	24	30	—	—	24	33	—	—	25	—
4	—	—	32	32	—	—	33	—	—	—	33	4	—	—	33	8	—	—	33	12
5	—	1	1	4	—	1	1	9	—	1	1	14	—	1	1	19	—	1	1	24
6	—	1	9	12	—	1	9	18	—	1	9	24	—	1	9	30	—	1	10	—
7	—	1	17	20	—	1	17	27	—	1	17	34	—	1	18	5	—	1	18	12
8	—	1	25	28	—	1	26	—	—	1	26	8	—	1	26	16	—	1	26	24
9	—	1	34	—	—	1	34	9	—	1	34	18	—	1	34	27	—	1	35	—
10	—	2	2	8	—	2	2	18	—	2	2	28	—	2	3	2	—	2	3	12
20	1	—	4	16	1	—	5	—	1	—	5	20	1	—	6	4	1	—	6	24
30	1	2	6	24	1	2	7	18	1	2	8	12	1	2	9	6	1	2	10	—
40	2	—	8	32	2	—	10	—	2	—	11	4	2	—	12	8	2	—	13	12
50	2	2	11	4	2	2	12	18	2	2	13	32	2	2	15	10	2	2	16	24
60	3	—	13	12	3	—	15	—	3	—	16	24	3	—	18	12	3	—	20	—
70	3	2	15	20	3	2	17	18	3	2	19	16	3	2	21	14	3	2	23	12
80	4	—	17	28	4	—	20	—	4	—	22	8	4	—	24	16	4	—	26	24
90	4	2	20	—	4	2	22	18	4	2	25	—	4	2	27	18	4	2	30	—
100	5	—	22	8	5	—	25	—	5	—	27	28	5	—	30	20	5	—	33	12
200	10	1	4	16	10	1	10	—	10	1	15	20	10	1	21	4	10	1	26	24
300	15	1	26	24	15	1	35	—	15	2	3	12	15	2	11	24	15	2	20	—
400	20	2	8	32	20	2	20	—	20	2	31	4	20	2	2	8	20	3	13	12
500	25	2	31	4	25	3	5	—	25	3	18	32	25	3	32	28	26	—	6	24
600	30	3	13	12	30	3	30	—	31	—	6	24	31	—	23	12	31	1	—	—

Ells Wide.	301 Ells Long.				302 Ells Long.				303 Ells Long.				304 Ells Long.				305 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	13	—	—	8	14	—	—	8	15	—	—	8	16	—	—	8	17
2	—	—	16	26	—	—	16	28	—	—	16	30	—	—	16	32	—	—	16	34
3	—	—	25	3	—	—	25	6	—	—	25	9	—	—	25	12	—	—	25	15
4	—	—	33	16	—	—	33	20	—	—	33	24	—	—	33	28	—	—	33	32
5	—	1	1	29	—	1	1	34	—	1	2	3	—	1	2	8	—	1	2	13
6	—	1	10	6	—	1	10	12	—	1	10	18	—	1	10	24	—	1	10	30
7	—	1	18	19	—	1	18	26	—	1	18	33	—	1	19	4	—	1	19	11
8	—	1	26	32	—	1	27	4	—	1	27	12	—	1	27	20	—	1	27	28
9	—	1	35	9	—	1	35	18	—	1	35	27	—	1	36	—	—	1	36	9
10	—	2	3	22	—	2	3	32	—	2	4	6	—	2	4	16	—	2	4	26
20	1	—	7	8	1	—	7	28	1	—	8	12	1	—	8	32	1	—	9	16
30	1	2	10	30	1	2	11	24	1	2	12	18	1	2	13	12	1	2	14	6
40	2	—	14	16	2	—	15	20	2	—	16	24	2	—	17	28	2	—	18	32
50	2	2	18	2	2	2	19	16	2	2	20	30	2	2	22	8	2	2	23	22
60	3	—	21	21	3	—	23	12	3	—	25	—	3	—	26	24	3	—	28	12
70	3	2	25	10	3	2	27	8	3	2	29	6	3	2	31	4	3	2	33	2
80	4	—	28	32	4	—	31	4	4	—	33	12	4	—	35	20	4	—	37	28
90	4	2	32	18	4	2	35	—	4	2	37	18	4	3	—	—	4	3	2	18
100	5	—	36	4	5	—	38	32	5	1	1	24	5	1	4	16	5	1	7	8
200	10	1	32	8	10	1	37	28	10	2	3	12	10	2	8	32	10	2	14	16
300	15	2	28	12	15	2	36	24	15	3	5	—	15	3	13	12	15	3	21	24
400	20	3	24	16	20	3	35	20	21	—	6	24	21	—	17	28	21	—	28	32
500	26	—	20	20	26	—	34	16	26	1	8	12	26	1	22	8	26	1	36	4
600	31	1	16	24	31	1	33	12	31	2	10	—	31	2	26	24	31	3	3	12

Ells Wide	306 Ells Long.				307 Ells Long.				308 Ells Long.				309 Ells Long.				310 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	18	—	—	8	19	—	—	8	20	—	—	8	21	—	—	8	22
2	—	—	17	—	—	—	17	2	—	—	17	4	—	—	17	6	—	—	17	8
3	—	—	25	18	—	—	25	21	—	—	25	24	—	—	25	27	—	—	25	30
4	—	—	34	—	—	—	34	4	—	—	34	8	—	—	34	12	—	—	34	16
5	—	1	2	18	—	1	2	23	—	1	2	28	—	1	2	33	—	1	3	2
6	—	1	11	—	—	1	11	6	—	1	11	12	—	1	11	18	—	1	11	24
7	—	1	19	18	—	1	19	25	—	1	19	32	—	1	20	3	—	1	20	10
8	—	1	28	—	—	1	28	8	—	1	28	16	—	1	28	24	—	1	28	32
9	—	1	36	18	—	1	36	27	—	1	37	—	—	1	37	9	—	1	37	18
10	—	2	5	—	—	2	5	10	—	2	5	20	—	2	5	30	—	2	6	4
20	1	—	10	—	1	—	10	20	1	—	11	4	1	—	11	24	1	—	12	8
30	1	2	15	—	1	2	15	30	1	2	16	24	1	2	17	18	1	2	18	12
40	2	—	20	—	2	—	21	4	2	—	22	8	2	—	23	12	2	—	24	16
50	2	2	25	—	2	2	26	14	2	2	27	28	2	2	29	6	2	2	30	20
60	3	—	30	—	3	—	31	24	3	—	33	12	3	—	35	—	3	—	36	24
70	3	2	35	—	3	2	36	34	3	2	38	32	3	3	—	30	3	3	2	28
80	4	1	—	—	4	1	2	8	4	1	4	16	4	1	6	24	4	1	8	32
90	4	3	5	—	4	3	7	18	4	3	10	—	4	3	12	18	4	3	15	—
100	5	1	10	—	5	1	12	28	5	1	15	20	5	1	18	12	5	1	21	4
200	10	2	20	—	10	2	25	20	10	2	31	4	10	2	36	24	10	3	2	8
300	15	3	30	—	15	3	38	12	16	—	6	24	16	—	15	—	16	—	23	12
400	21	1	—	—	21	1	11	4	21	1	22	8	21	1	33	12	21	2	4	16
500	26	2	10	—	26	2	23	32	26	2	37	28	26	3	11	24	26	3	25	20
600	31	3	20	—	31	3	36	24	32	—	13	12	32	—	30	—	32	1	6	24

Ells Wide.	311 Ells Long.				312 Ells Long.				313 Ells Long.				314 Ells Long.				315 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	23	—	—	8	24	—	—	8	25	—	—	8	26	—	—	8	27
2	—	—	17	10	—	—	17	12	—	—	17	14	—	—	17	16	—	—	17	18
3	—	—	25	33	—	—	26	—	—	—	26	3	—	—	26	6	—	—	26	9
4	—	—	34	20	—	—	34	24	—	—	34	28	—	—	34	32	—	—	35	—
5	—	1	3	7	—	1	3	12	—	1	3	17	—	1	3	22	—	1	3	27
6	—	1	11	30	—	1	12	—	—	1	12	6	—	1	12	12	—	1	12	18
7	—	1	20	17	—	1	20	24	—	1	20	31	—	1	21	2	—	1	21	9
8	—	1	29	4	—	1	29	12	—	1	29	20	—	1	29	28	—	1	30	—
9	—	1	37	27	—	1	38	—	—	1	38	9	—	1	38	18	—	1	38	27
10	—	2	6	14	—	2	6	24	—	2	6	34	—	2	7	8	—	2	7	18
20	1	—	12	28	1	—	13	12	1	—	13	32	1	—	14	16	1	—	15	—
30	1	2	19	6	1	2	20	—	1	2	20	30	1	2	21	24	1	2	22	18
40	2	—	25	20	2	—	26	24	2	—	27	28	2	—	28	32	2	—	30	—
50	2	2	31	34	2	2	33	12	2	2	34	26	2	2	36	4	2	2	37	18
60	3	—	38	12	3	1	—	—	3	1	1	24	3	1	3	12	3	1	5	—
70	3	3	4	26	3	3	6	24	3	3	8	22	3	3	10	20	3	3	12	18
80	4	1	11	4	4	1	13	12	4	1	15	20	4	1	17	28	4	1	20	—
90	4	3	17	18	4	3	20	—	4	3	22	18	4	3	25	—	4	3	27	18
100	5	1	23	32	5	1	26	24	5	1	29	16	5	1	32	8	5	1	35	—
200	10	3	7	28	10	3	13	12	10	3	18	32	10	3	24	16	10	3	30	—
300	16	—	31	24	16	1	—	—	16	1	8	12	16	1	16	24	16	1	25	—
400	21	2	15	20	21	2	26	24	21	2	37	28	21	3	8	32	21	3	20	—
500	26	3	39	16	27	—	13	12	27	—	27	8	27	1	1	4	27	1	15	—
600	32	1	23	12	32	2	—	—	32	2	16	24	32	2	33	12	32	3	10	—

Ells Wide.	316 Ells Long.				317 Ells Long.				318 Ells Long.				319 Ells Long.				320 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	28	—	—	8	29	—	—	8	30	—	—	8	31	—	—	8	32
2	—	—	17	20	—	—	17	22	—	—	17	24	—	—	17	26	—	—	17	28
3	—	—	26	12	—	—	26	15	—	—	26	18	—	—	26	21	—	—	26	24
4	—	—	35	4	—	—	35	8	—	—	35	12	—	—	35	16	—	—	35	20
5	—	1	3	32	—	1	4	1	—	1	4	6	—	1	4	11	—	1	4	16
6	—	1	12	24	—	1	12	30	—	1	13	—	—	1	13	6	—	1	13	12
7	—	1	21	16	—	1	21	23	—	1	21	30	—	1	22	1	—	1	22	8
8	—	1	30	8	—	1	30	16	—	1	30	24	—	1	30	32	—	1	30	4
9	—	1	39	—	—	1	39	9	—	1	39	18	—	1	39	27	—	2	—	—
10	—	2	7	28	—	2	8	2	—	2	8	12	—	2	8	22	—	2	8	32
20	1	—	15	20	1	—	16	4	1	—	16	24	1	—	17	8	1	—	17	28
30	1	2	23	12	1	2	24	6	1	2	25	—	1	2	25	30	1	2	26	24
40	2	—	31	4	2	—	32	8	2	—	33	12	2	—	34	16	2	—	35	20
50	2	2	38	32	2	3	—	10	2	3	1	24	2	3	3	2	2	3	4	16
60	3	1	6	24	3	1	8	12	3	1	10	—	3	1	11	24	3	1	13	12
70	3	3	14	16	3	3	16	14	3	3	18	12	3	3	20	10	3	3	22	8
80	4	1	22	8	4	1	24	16	4	1	26	24	4	1	28	32	4	1	31	4
90	4	3	30	—	4	3	32	18	4	3	35	—	4	3	37	18	5	—	—	—
100	5	1	37	28	5	2	—	20	5	2	3	12	5	2	6	4	5	2	8	32
200	10	3	35	20	11	—	1	4	11	—	6	24	11	—	12	8	11	—	17	28
300	16	1	33	12	16	2	1	24	16	2	10	—	16	2	18	12	16	2	26	24
400	21	3	31	4	22	—	2	8	22	—	13	12	22	—	24	16	22	—	25	20
500	27	1	28	32	27	2	2	28	27	2	16	24	27	2	30	20	27	3	4	16
600	32	3	26	24	33	—	3	12	33	—	20	—	33	—	36	24	33	1	13	12

Ells Wide.	321 Ells Long.				322 Ells Long.				323 Ells Long.				324 Ells Long.				325 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	8	33	—	—	8	34	—	—	8	35	—	—	9	—	—	9	1	1
2	—	—	17	30	—	—	17	32	—	—	17	34	—	—	18	—	—	18	2	2
3	—	—	26	27	—	—	26	30	—	—	26	33	—	—	27	—	—	27	3	3
4	—	—	35	24	—	—	35	28	—	—	35	32	—	—	36	—	—	36	4	4
5	—	1	4	21	—	1	4	26	—	1	4	31	—	1	5	—	—	1	5	5
6	—	1	13	18	—	1	13	24	—	1	13	30	—	1	14	—	—	1	14	6
7	—	1	22	15	—	1	22	22	—	1	22	29	—	1	23	—	—	1	23	7
8	—	1	31	12	—	1	31	20	—	1	31	28	—	1	32	—	—	1	32	8
9	—	2	—	9	—	2	—	18	—	2	—	27	—	2	1	—	—	2	1	9
10	—	2	9	6	—	2	9	16	—	2	9	26	—	2	10	—	—	2	10	10
20	1	—	18	12	1	—	18	32	1	—	19	16	1	—	20	—	—	1	—	20
30	1	2	27	18	1	2	28	12	1	2	29	6	1	2	30	—	—	1	2	30
40	2	—	36	24	2	—	37	28	2	—	38	32	2	1	—	—	—	2	1	1
50	2	3	5	30	2	3	7	8	2	3	8	22	2	3	10	—	—	2	3	11
60	3	1	15	—	3	1	16	24	3	1	18	12	3	1	20	—	—	3	1	21
76	3	3	24	6	3	3	26	4	3	3	28	2	3	3	30	—	—	3	3	31
80	4	1	33	12	4	1	35	20	4	1	37	28	4	2	—	—	—	4	2	2
90	5	—	2	18	5	—	5	—	5	—	7	18	5	—	10	—	—	5	—	12
100	5	2	11	24	5	2	14	16	5	2	17	8	5	2	20	—	—	5	2	22
200	11	—	23	12	11	—	28	32	11	—	34	16	11	1	—	—	—	11	1	5
300	16	2	35	—	16	3	3	12	16	3	11	24	16	3	20	—	—	16	3	28
400	22	1	6	24	22	1	17	28	22	1	28	32	22	2	—	—	—	22	2	11
500	27	3	18	12	27	3	32	8	28	—	6	4	28	—	20	—	—	28	—	33
600	33	1	30	—	33	2	6	24	33	2	23	12	33	3	—	—	—	33	3	16

Ells Wide.	326				327				328				329				330			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	2	—	—	9	3	—	—	9	4	—	—	9	5	—	—	9	6
2	—	—	18	4	—	—	18	6	—	—	18	8	—	—	18	10	—	—	18	12
3	—	—	27	6	—	—	27	9	—	—	27	12	—	—	27	15	—	—	27	18
4	—	—	36	8	—	—	36	12	—	—	36	16	—	—	36	20	—	—	36	24
5	—	1	5	10	—	1	5	15	—	1	5	20	—	1	5	25	—	1	5	30
6	—	1	14	12	—	1	14	18	—	1	14	24	—	1	14	30	—	1	15	—
7	—	1	23	14	—	1	23	21	—	1	23	28	—	1	23	35	—	1	24	6
8	—	1	32	16	—	1	32	24	—	1	32	32	—	1	33	4	—	1	33	12
9	—	2	1	18	—	2	1	27	—	2	2	—	—	2	2	9	—	2	2	18
10	—	2	10	20	—	2	10	30	—	2	11	4	—	2	11	14	—	2	11	24
20	1	—	21	4	1	—	21	24	1	—	22	8	1	—	22	28	1	—	23	12
30	1	2	31	24	1	2	32	18	1	2	33	12	1	2	34	6	1	2	35	—
40	2	1	2	8	2	1	3	12	2	1	4	16	2	1	5	20	2	1	6	24
50	2	3	12	28	2	3	14	6	2	3	15	20	2	3	16	34	2	3	18	12
60	3	1	23	12	3	1	25	—	3	1	26	24	3	1	28	12	3	1	30	—
70	3	3	33	32	3	3	35	30	3	3	37	28	3	3	39	26	4	—	1	24
80	4	2	4	16	4	2	6	24	4	2	8	32	4	2	11	4	4	2	13	12
90	5	—	15	—	5	—	17	18	5	—	20	—	5	—	22	18	5	—	25	—
100	5	2	25	20	5	2	28	12	5	2	31	4	5	2	33	32	5	2	36	24
200	11	1	11	4	11	1	16	24	11	1	22	8	11	1	27	28	11	1	33	12
300	16	3	36	24	17	—	5	—	17	—	13	12	17	—	21	24	17	—	30	—
400	22	2	22	8	22	3	33	12	22	3	4	16	22	3	15	20	22	3	26	24
500	28	1	7	28	28	1	21	24	28	1	35	20	28	2	9	16	28	2	23	12
600	33	3	33	12	34	—	10	—	34	—	26	24	34	1	3	12	34	1	20	—

Ells Wide.	331 Ells Long.				332 Ells Long.				333 Ells Long.				334 Ells Long.				335 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	7	—	—	9	8	—	—	9	9	—	—	9	10	—	—	9	11
2	—	—	18	14	—	—	18	16	—	—	18	18	—	—	18	20	—	—	18	22
3	—	—	27	21	—	—	27	24	—	—	27	27	—	—	27	30	—	—	27	33
4	—	—	36	28	—	—	36	32	—	—	37	—	—	—	37	4	—	—	37	8
5	—	1	5	35	—	1	6	4	—	1	6	9	—	1	6	14	—	1	6	19
6	—	1	15	6	—	1	15	12	—	1	15	18	—	1	15	24	—	1	15	30
7	—	1	24	13	—	1	24	20	—	1	24	27	—	1	24	34	—	1	25	5
8	—	1	33	20	—	1	33	28	—	1	34	—	—	1	34	8	—	1	34	16
9	—	2	2	27	—	2	3	—	—	2	3	9	—	2	3	18	—	2	3	27
10	—	2	11	34	—	2	12	8	—	2	12	18	—	2	12	28	—	2	13	2
20	1	—	23	32	1	—	24	16	1	—	25	—	1	—	25	20	1	—	26	4
30	1	2	35	30	1	2	36	24	1	2	37	18	1	2	38	12	1	2	39	6
40	2	1	7	28	2	1	8	32	2	1	10	—	2	1	11	4	2	1	12	8
50	2	3	19	26	2	3	21	4	2	3	22	18	2	3	23	32	2	3	25	10
60	3	1	31	24	3	1	33	12	3	1	35	—	3	1	36	24	3	1	38	12
70	4	—	3	22	4	—	5	20	4	—	7	18	4	—	9	16	4	—	11	14
80	4	2	15	20	4	2	17	28	4	2	20	—	4	2	22	8	4	2	24	16
90	5	—	27	18	5	—	30	—	5	—	32	18	5	—	35	—	5	—	37	18
100	5	2	39	16	5	3	2	8	5	3	5	—	5	3	7	28	5	3	10	20
200	11	1	38	32	11	2	4	16	11	2	10	—	11	2	15	20	11	2	21	4
300	17	—	38	12	17	1	6	24	17	1	15	—	17	1	23	12	17	1	31	24
400	22	3	37	28	23	—	8	32	23	—	20	—	23	—	31	4	23	1	2	8
500	28	2	37	8	28	3	11	4	28	3	25	—	28	3	38	32	29	—	12	28
600	34	1	36	24	34	2	13	12	34	2	30	—	34	3	6	24	34	3	23	12

Ells Wide.	336				337				338				339				340			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	12	—	—	9	13	—	—	9	14	—	—	9	15	—	—	9	16
2	—	—	18	24	—	—	18	26	—	—	18	28	—	—	18	30	—	—	18	32
3	—	—	28	—	—	—	28	3	—	—	28	6	—	—	28	9	—	—	28	12
4	—	—	37	12	—	—	37	16	—	—	37	20	—	—	37	24	—	—	37	28
5	—	1	6	24	—	1	6	29	—	1	6	34	—	1	7	3	—	1	7	8
6	—	1	16	—	—	1	16	6	—	1	16	12	—	1	16	18	—	1	16	24
7	—	1	25	12	—	1	25	19	—	1	25	26	—	1	25	33	—	1	26	4
8	—	1	34	24	—	1	34	32	—	1	35	4	—	1	35	12	—	1	35	20
9	—	2	4	—	—	2	4	9	—	2	4	18	—	2	4	27	—	2	5	—
10	—	2	13	12	—	2	13	22	—	2	13	32	—	2	14	6	—	2	14	16
20	1	—	26	24	1	—	27	8	1	—	27	28	1	—	28	12	1	—	28	32
30	1	3	—	—	1	3	—	30	1	3	1	24	1	3	2	18	1	3	3	12
40	2	1	13	12	2	1	14	16	2	1	15	20	2	1	16	24	2	1	17	28
50	2	3	26	24	2	3	28	2	2	3	29	16	2	3	30	30	2	3	32	8
60	3	2	—	—	3	2	1	24	3	2	3	12	3	2	5	—	3	2	6	24
70	4	—	13	12	4	—	15	10	4	—	17	8	4	—	19	6	4	—	21	4
80	4	2	26	24	4	2	28	32	4	2	31	4	4	2	33	12	4	2	35	20
90	5	1	—	—	5	1	2	18	5	1	5	—	5	1	7	18	5	1	10	—
100	5	3	13	12	5	3	16	4	5	3	18	32	5	3	21	24	5	3	24	16
200	11	2	26	24	11	2	32	8	11	2	37	28	11	3	3	12	11	3	8	32
300	17	2	—	—	17	2	8	12	17	2	16	24	17	2	25	—	17	2	33	12
400	23	1	13	12	23	1	24	16	23	1	35	20	23	2	6	24	23	2	17	28
500	29	—	26	24	29	1	—	20	29	1	14	16	29	1	28	12	29	2	2	8
600	35	—	—	—	35	—	16	24	35	—	33	12	35	1	10	—	35	1	26	24

Ells Wide.	341				342				343				344				345			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	17	—	—	9	18	—	—	9	19	—	—	9	20	—	—	9	21
2	—	—	18	34	—	—	19	—	—	—	19	2	—	—	19	4	—	—	19	6
3	—	—	28	15	—	—	28	18	—	—	28	21	—	—	28	24	—	—	28	27
4	—	—	37	32	—	—	38	—	—	—	38	4	—	—	38	8	—	—	38	12
5	—	1	7	13	—	1	7	18	—	1	7	23	—	1	7	28	—	—	1	33
6	—	1	16	30	—	1	17	—	—	1	17	6	—	1	17	12	—	—	1	18
7	—	1	26	11	—	1	26	18	—	1	26	25	—	1	26	32	—	—	1	3
8	—	1	35	28	—	1	36	—	—	1	36	8	—	1	36	16	—	—	1	24
9	—	2	5	9	—	2	5	18	—	2	5	27	—	2	6	—	—	—	2	9
10	—	2	14	26	—	2	15	—	—	2	15	10	—	2	15	20	—	—	2	30
20	1	—	29	16	1	—	30	—	1	—	30	20	1	—	31	4	1	—	31	24
30	1	3	4	6	1	3	5	—	1	3	5	30	1	3	6	24	1	3	7	18
40	2	1	18	32	2	1	20	—	2	1	21	4	2	1	22	8	2	1	23	12
50	2	3	33	22	2	3	35	—	2	3	36	14	2	3	37	28	2	3	39	6
60	3	2	8	12	3	2	10	—	3	2	11	24	3	2	13	12	3	2	15	—
70	4	—	23	2	4	—	25	—	4	—	26	34	4	—	28	32	4	—	30	30
80	4	2	37	28	4	3	—	—	4	3	2	8	4	3	4	16	4	3	6	24
90	5	1	12	18	5	1	15	—	5	1	17	18	5	1	20	—	5	1	22	18
100	5	3	27	8	5	3	30	—	5	3	32	28	5	3	35	20	5	3	38	12
200	11	3	14	16	11	3	20	—	11	3	25	20	11	3	31	4	11	3	36	24
300	17	3	1	24	17	3	10	—	17	3	18	12	17	3	26	24	17	3	35	—
400	23	2	28	32	23	3	—	—	23	3	11	4	23	3	22	8	23	3	33	12
500	29	2	16	4	29	2	30	—	29	3	3	32	29	3	17	28	29	3	31	24
600	35	2	3	12	35	2	20	—	35	2	36	24	35	3	13	12	35	3	30	—

Ells Wide.	346				347				348				349				350			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	22	—	—	9	23	—	—	9	24	—	—	9	25	—	—	9	26
2	—	—	19	8	—	—	19	10	—	—	19	12	—	—	19	14	—	—	19	16
3	—	—	28	30	—	—	28	33	—	—	29	—	—	—	29	3	—	—	29	6
4	—	—	38	16	—	—	38	20	—	—	38	24	—	—	38	28	—	—	38	32
5	—	1	8	2	—	1	8	7	—	1	8	12	—	1	8	17	—	1	8	22
6	—	1	17	24	—	1	17	30	—	1	18	—	—	1	18	6	—	1	18	12
7	—	1	27	10	—	1	27	17	—	1	27	24	—	1	27	31	—	1	28	2
8	—	1	36	32	—	1	37	4	—	1	37	12	—	1	37	20	—	1	37	28
9	—	2	6	18	—	2	6	27	—	2	7	—	—	2	7	9	—	2	7	18
10	—	2	16	4	—	2	16	14	—	2	16	24	—	2	16	34	—	2	17	8
20	1	—	32	8	1	—	32	28	1	—	33	12	1	—	33	32	1	—	34	16
30	1	3	8	12	1	3	9	6	1	3	10	—	1	3	10	30	1	3	11	24
40	2	1	24	16	2	1	25	20	2	1	26	24	2	1	27	28	2	1	28	32
50	3	—	—	20	3	—	1	34	3	—	3	12	3	—	4	26	3	—	6	4
60	3	2	16	24	3	2	18	12	3	2	20	—	3	2	21	24	3	2	23	12
70	4	—	32	28	4	—	34	26	4	—	36	24	4	—	38	32	4	1	—	20
80	4	3	8	32	4	3	11	4	4	3	13	12	4	3	15	20	4	3	17	28
90	5	1	25	—	5	1	27	18	5	1	30	—	5	1	32	18	5	1	35	—
100	6	—	1	4	6	—	3	32	6	—	6	24	6	—	9	16	6	—	12	8
200	12	—	2	8	12	—	7	28	12	—	13	12	12	—	18	32	12	—	24	16
300	18	—	3	12	18	—	11	24	18	—	20	—	18	—	28	12	18	—	36	24
400	24	—	4	16	24	—	15	20	24	—	26	24	24	—	37	28	24	1	8	32
500	30	—	5	20	30	—	19	16	30	—	33	12	30	1	7	8	30	1	21	4
600	36	—	6	24	36	—	23	12	36	1	—	—	36	1	16	24	36	1	33	12

Ells Wide.	351 Ells Long.				352 Ells Long.				353 Ells Long.				354 Ells Long.				355 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	9	27	—	—	9	28	—	—	9	29	—	—	9	30	—	—	9	31	
2	—	—	19	18	—	—	19	20	—	—	19	22	—	—	19	24	—	—	19	26	
3	—	—	29	9	—	—	29	12	—	—	29	15	—	—	29	18	—	—	29	21	
4	—	—	39	—	—	—	39	4	—	—	39	8	—	—	39	12	—	—	39	16	
5	—	1	8	27	—	1	8	32	—	1	9	1	—	1	9	6	—	—	1	9	11
6	—	1	18	18	—	1	18	24	—	1	18	30	—	1	19	—	—	—	1	19	6
7	—	1	28	9	—	1	28	16	—	1	28	23	—	1	28	30	—	—	1	29	1
8	—	1	38	—	—	1	38	8	—	1	38	16	—	1	38	24	—	—	1	28	32
9	—	2	7	27	—	2	8	—	—	2	8	9	—	2	8	18	—	—	2	8	27
10	—	2	17	18	—	2	17	28	—	2	18	2	—	2	18	12	—	—	2	18	22
20	1	—	35	—	1	—	35	20	1	—	36	4	1	—	36	24	1	—	37	8	
30	1	3	12	18	1	3	13	12	1	3	14	6	1	3	15	—	1	3	15	30	
40	2	1	30	—	2	1	31	4	2	1	32	8	2	1	33	12	2	1	34	16	
50	3	—	7	18	3	—	8	32	3	—	10	10	3	—	11	24	3	—	13	2	
60	3	2	25	—	3	2	26	24	3	2	28	12	3	2	30	—	3	2	31	24	
70	4	1	2	18	4	1	4	16	4	1	6	14	4	1	8	12	4	1	10	10	
80	4	3	20	—	4	3	22	8	4	3	24	16	4	3	26	24	4	3	28	32	
90	5	1	37	18	5	2	—	—	5	2	2	18	5	2	5	—	5	2	7	18	
100	6	—	15	—	6	—	17	28	6	—	20	20	6	—	23	12	6	—	26	4	
200	12	—	30	—	12	—	35	20	12	1	1	4	12	1	6	24	12	—	12	8	
300	18	1	5	—	18	1	13	12	18	1	21	24	18	1	30	—	18	1	38	12	
400	24	1	20	—	24	1	31	4	24	2	2	8	24	2	13	12	24	2	24	16	
500	30	1	35	—	30	2	8	32	30	2	22	28	30	2	36	24	30	3	10	20	
600	36	2	10	—	36	2	26	34	36	3	3	12	36	3	20	—	36	3	36	24	

Ells Wide.	356				357				358				359				360			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	9	32	—	—	9	33	—	—	9	34	—	—	9	35	—	—	10	—
2	—	—	19	28	—	—	19	30	—	—	19	32	—	—	19	34	—	—	20	—
3	—	—	29	24	—	—	29	27	—	—	29	30	—	—	29	33	—	—	30	—
4	—	—	39	20	—	—	39	24	—	—	39	28	—	—	39	32	—	1	—	—
5	—	1	9	16	—	1	9	21	—	1	9	26	—	1	9	31	—	1	10	—
6	—	1	19	12	—	1	19	18	—	1	19	24	—	1	19	30	—	1	20	—
7	—	1	29	8	—	1	29	15	—	1	29	22	—	1	29	29	—	1	30	—
8	—	1	39	4	—	1	39	12	—	1	39	20	—	1	39	28	—	2	—	—
9	—	2	9	—	—	2	9	9	—	2	9	18	—	2	9	27	—	2	10	—
10	—	2	18	32	—	2	19	6	—	2	19	16	—	2	19	26	—	2	20	—
20	1	—	37	28	1	—	38	12	1	—	38	32	1	—	39	16	1	1	—	—
30	1	3	16	24	1	3	17	18	1	3	18	12	1	3	19	6	1	3	20	—
40	2	1	35	20	2	1	36	24	2	1	37	28	2	1	38	32	2	2	—	—
50	3	—	14	16	3	—	15	30	3	—	17	8	3	—	18	22	3	—	20	—
60	3	2	33	12	3	2	35	—	3	2	36	24	3	2	38	12	3	3	—	—
70	4	1	12	8	4	1	14	6	4	1	16	4	4	1	18	2	4	1	20	—
80	4	3	31	4	4	3	33	12	4	3	35	20	4	3	37	28	5	—	—	—
90	5	2	10	—	5	2	12	18	5	2	15	—	5	2	17	18	5	2	20	—
100	6	—	28	32	6	—	31	24	6	—	34	16	6	—	37	8	6	1	—	—
200	12	1	17	28	12	1	23	12	12	1	28	32	12	1	34	16	12	2	—	—
300	18	2	6	24	18	2	15	—	18	2	23	12	18	2	31	24	18	3	—	—
400	24	2	35	20	24	3	6	24	24	3	17	28	24	3	28	32	25	—	—	—
500	30	3	24	16	30	3	38	12	31	—	12	8	31	—	26	4	31	1	—	—
600	37	—	13	12	37	—	30	—	37	1	6	24	37	—	23	12	37	2	—	—

Ells Wide.	361				362				363				364				365			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	1	—	—	10	2	—	—	10	3	—	—	10	4	—	—	10	5
2	—	—	20	2	—	—	20	4	—	—	20	6	—	—	20	8	—	—	20	10
3	—	—	30	3	—	—	30	6	—	—	30	9	—	—	30	12	—	—	30	15
4	—	1	—	4	—	1	—	8	—	1	—	12	—	1	—	16	—	1	—	20
5	—	1	10	5	—	1	10	10	—	1	10	15	—	1	10	20	—	1	10	25
6	—	1	20	6	—	1	20	12	—	1	20	18	—	1	20	24	—	1	20	30
7	—	1	30	7	—	1	30	14	—	1	30	21	—	1	30	28	—	1	30	35
8	—	2	—	8	—	2	—	16	—	2	—	24	—	2	—	32	—	2	1	4
9	—	2	10	9	—	2	10	18	—	2	10	27	—	2	11	—	—	2	11	9
10	—	2	20	10	—	2	20	20	—	2	20	30	—	2	21	4	—	2	21	14
20	1	1	—	20	1	1	1	4	1	1	1	24	1	1	2	8	1	1	2	28
30	1	3	20	30	1	3	21	24	1	3	22	18	1	3	23	12	1	3	24	6
40	2	2	1	4	2	2	2	8	2	2	3	12	2	2	4	16	2	2	5	20
50	3	—	21	14	3	—	22	28	3	—	24	6	3	—	25	20	3	—	26	34
60	3	3	1	24	3	3	3	12	3	3	5	—	3	3	6	24	3	3	8	12
70	4	1	21	34	4	1	23	32	4	1	25	30	4	1	27	28	4	1	29	26
80	5	—	2	8	5	—	4	16	5	—	6	24	5	—	8	32	5	—	11	4
90	5	2	22	18	5	2	25	—	5	2	27	18	5	2	30	—	5	2	32	18
100	6	1	2	28	6	1	5	20	6	1	8	12	6	1	11	4	6	1	13	32
200	12	2	5	20	12	2	11	4	12	2	16	24	12	2	22	8	12	2	27	28
300	18	3	8	12	18	3	16	24	18	3	25	—	18	3	33	12	19	—	1	24
400	25	—	11	4	25	—	22	8	25	—	33	12	25	1	4	16	25	1	15	20
500	31	1	13	32	31	1	27	28	31	2	1	24	31	2	15	20	31	2	29	16
600	37	2	16	24	37	2	33	12	37	3	10	—	37	3	26	24	38	—	3	12

Ells Wide.	366				367				368				369				370			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	6	—	—	10	7	—	—	10	8	—	—	10	9	—	—	10	10
2	—	—	20	12	—	—	20	14	—	—	20	16	—	—	20	18	—	—	20	20
3	—	—	30	18	—	—	30	21	—	—	30	24	—	—	30	27	—	—	30	30
4	—	1	—	24	—	1	—	28	—	1	—	32	—	1	1	—	—	1	1	4
5	—	1	10	30	—	1	10	35	—	1	11	4	—	1	11	9	—	1	11	14
6	—	1	21	—	—	1	21	6	—	1	21	12	—	1	21	18	—	1	21	24
7	—	1	31	6	—	1	31	13	—	1	31	20	—	1	31	27	—	1	31	34
8	—	2	1	12	—	2	1	20	—	2	1	28	—	2	2	—	—	2	2	8
9	—	2	11	18	—	2	11	27	—	2	12	—	—	2	12	9	—	2	12	18
10	—	2	21	24	—	2	21	34	—	2	22	8	—	2	22	18	—	2	22	28
20	1	1	3	12	1	1	3	32	1	1	4	16	1	1	5	—	1	1	5	20
30	1	3	25	—	1	3	25	30	1	3	26	24	1	3	27	18	1	3	28	12
40	2	2	6	24	2	2	7	28	2	2	8	32	2	2	10	—	2	2	11	4
50	3	—	28	12	3	—	29	26	3	—	31	4	3	—	32	18	3	—	33	32
60	3	3	10	—	3	3	11	24	3	3	13	12	3	3	15	—	3	3	16	24
70	4	1	31	24	4	1	33	22	4	1	35	20	4	1	37	18	4	1	39	16
80	5	—	13	12	5	—	15	20	5	—	17	28	5	—	20	—	5	—	22	8
90	5	2	35	—	5	2	37	18	5	3	—	—	5	3	2	18	5	3	5	—
100	6	1	16	24	6	1	19	16	6	1	22	8	6	1	25	—	6	1	27	28
200	12	2	33	12	12	2	38	32	12	3	4	16	12	3	10	—	12	3	15	20
300	19	—	10	—	19	—	18	12	19	—	26	24	19	—	35	—	19	1	3	12
400	25	1	26	24	25	1	37	28	25	2	8	32	25	2	20	—	25	2	31	4
500	31	3	3	12	31	3	17	8	31	3	31	4	32	—	5	—	32	—	18	32
600	38	—	20	—	38	—	36	24	38	1	13	12	38	1	30	—	38	2	6	24

Ells Wide.	371				372				373				374				375			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	11	—	—	10	12	—	—	10	13	—	—	10	14	—	—	10	15
2	—	—	20	22	—	—	20	24	—	—	20	26	—	—	20	28	—	—	20	30
3	—	—	30	33	—	—	31	—	—	—	31	3	—	—	31	6	—	—	31	9
4	—	1	1	8	—	1	1	12	—	1	1	16	—	1	1	20	—	1	1	24
5	—	1	11	19	—	1	11	24	—	1	11	29	—	1	11	34	—	1	12	3
6	—	1	21	30	—	1	22	—	—	1	22	6	—	1	22	12	—	1	22	18
7	—	1	32	5	—	1	32	12	—	1	32	19	—	1	32	26	—	1	32	33
8	—	2	2	16	—	2	2	24	—	2	2	32	—	2	3	4	—	2	3	12
9	—	2	12	27	—	2	13	—	—	2	13	9	—	2	13	18	—	2	13	27
10	—	2	23	2	—	2	23	12	—	2	23	22	—	2	23	32	—	2	24	6
20	1	1	6	4	1	1	6	24	1	1	7	8	1	1	7	28	1	1	8	12
30	1	3	29	6	1	3	30	—	1	3	30	30	1	3	31	24	1	3	32	18
40	2	2	12	8	2	2	13	12	2	2	14	16	2	2	15	20	2	2	16	24
50	3	—	35	10	3	—	36	24	3	—	38	2	3	—	39	16	3	1	—	30
60	3	3	18	12	3	3	20	—	3	3	21	24	3	3	23	12	3	3	25	—
70	4	2	1	14	4	2	3	12	4	2	5	10	4	2	7	8	4	2	9	6
80	5	—	24	16	5	—	26	24	5	—	28	32	5	—	31	4	5	—	33	12
90	5	3	7	18	5	3	10	—	5	3	12	18	5	3	15	—	5	3	17	18
100	6	1	30	20	6	1	33	12	6	1	36	4	6	1	38	32	6	2	1	24
200	12	3	21	4	12	3	26	24	12	3	32	8	12	3	37	28	13	—	3	12
300	19	1	11	24	19	1	20	—	19	1	28	12	19	1	36	24	19	2	5	—
400	25	3	2	8	25	3	13	12	25	3	24	16	25	3	35	20	26	—	6	24
500	32	—	32	28	32	1	6	24	32	1	20	20	32	1	34	16	32	2	8	12
600	38	2	23	12	38	3	—	—	38	3	16	24	38	3	33	12	39	—	10	—

Ells Wide	376 Ells Long.				377 Ells Long.				378 Ells Long.				379 Ells Long.				380 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	10	16	—	—	10	17	—	—	10	18	—	—	10	19	—	—	10	20	
2	—	—	20	32	—	—	20	34	—	—	21	—	—	21	2	—	—	21	4		
3	—	—	31	12	—	—	31	15	—	—	31	18	—	—	31	21	—	—	31	24	
4	—	1	1	28	—	1	1	32	—	1	2	—	—	1	2	4	—	—	1	2	8
5	—	1	12	8	—	1	12	13	—	1	12	18	—	1	12	23	—	—	1	12	28
6	—	1	22	24	—	1	22	30	—	1	23	—	—	1	23	6	—	—	1	23	12
7	—	1	33	4	—	1	33	11	—	1	33	18	—	1	33	25	—	—	1	33	32
8	—	2	3	20	—	2	3	28	—	2	4	—	—	2	4	8	—	—	2	4	16
9	—	2	14	—	—	2	14	9	—	2	14	18	—	2	14	27	—	—	2	15	—
10	—	2	24	16	—	2	24	26	—	2	25	—	—	2	25	10	—	—	2	25	20
20	1	1	8	32	1	1	9	16	1	1	10	—	—	1	1	10	20	1	1	11	4
30	1	3	33	12	1	3	34	6	1	3	35	—	—	1	3	35	30	1	3	36	24
40	2	2	17	28	2	2	18	32	2	2	20	—	—	2	2	21	4	2	2	22	8
50	3	1	2	8	3	1	3	22	3	1	5	—	—	3	1	6	14	3	1	7	28
60	3	3	26	24	3	3	28	12	3	3	30	—	—	3	3	31	24	3	3	33	12
70	4	2	11	4	4	2	13	2	4	2	15	—	—	4	2	16	34	4	2	18	32
80	5	—	35	20	5	—	37	28	5	1	—	—	—	5	1	2	8	5	1	4	16
90	5	3	20	—	5	3	22	18	5	3	25	—	—	5	3	27	18	5	3	30	—
100	6	2	4	16	6	2	7	8	6	2	10	—	—	6	2	12	28	6	2	15	20
200	13	—	8	32	13	—	14	16	13	—	20	—	—	13	—	25	20	13	—	31	4
300	19	2	13	12	19	2	21	24	19	2	30	—	—	19	2	38	12	19	3	6	24
400	26	—	17	28	26	—	28	32	26	1	—	—	—	26	1	11	4	26	1	22	8
500	32	2	22	8	32	2	36	4	32	3	10	—	—	32	3	23	32	32	3	37	28
600	39	—	26	24	39	1	3	12	39	1	20	—	—	39	1	36	24	39	2	13	12

Ells Wide.	381 Ells Long.				382 Ells Long.				383 Ells Long.				384 Ells Long.				385 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	21	—	—	10	22	—	—	10	23	—	—	10	24	—	—	10	25
2	—	—	20	6	—	—	21	8	—	—	21	10	—	—	21	12	—	—	21	14
3	—	—	31	27	—	—	31	30	—	—	31	33	—	—	31	—	—	—	32	3
4	—	1	2	12	—	1	2	16	—	1	2	20	—	1	2	24	—	1	2	28
5	—	1	12	33	—	1	13	2	—	1	13	7	—	1	13	12	—	1	13	17
6	—	1	23	18	—	1	23	24	—	1	23	30	—	1	24	—	—	1	24	6
7	—	1	34	3	—	1	34	10	—	1	34	17	—	1	34	24	—	1	34	31
8	—	2	4	24	—	2	4	32	—	2	5	4	—	2	5	12	—	2	5	20
9	—	2	15	9	—	2	15	18	—	2	15	27	—	2	16	—	—	2	16	9
10	—	2	25	30	—	2	26	4	—	2	26	14	—	2	26	24	—	2	26	34
20	1	1	11	24	1	1	12	8	1	1	12	28	1	1	13	12	1	1	13	32
30	1	3	37	18	1	3	38	12	1	3	39	6	2	—	—	—	2	—	—	30
40	2	2	23	12	2	2	24	16	2	2	25	20	2	2	26	24	2	2	27	28
50	3	1	9	6	3	1	10	20	3	1	11	34	3	1	13	12	3	1	14	26
60	3	3	35	—	3	3	36	24	3	3	38	12	4	—	—	—	4	—	1	24
70	4	2	20	30	4	2	22	28	4	2	24	26	4	2	26	24	4	2	28	22
80	5	1	6	24	5	1	8	32	5	1	11	4	5	1	13	12	5	1	15	20
90	5	3	32	18	5	3	35	—	5	3	37	18	6	—	—	—	6	—	2	18
100	6	2	18	12	6	2	21	4	6	2	23	32	6	2	26	24	6	2	29	16
200	13	—	36	24	13	1	2	8	13	1	7	28	13	1	13	12	13	1	18	32
300	19	3	15	—	19	3	23	12	19	3	31	24	20	—	—	—	20	—	8	12
400	26	1	33	12	26	2	4	16	26	2	15	20	26	2	26	24	26	2	37	28
500	33	—	11	24	33	—	25	20	33	—	39	16	33	1	13	12	33	1	27	8
600	39	2	30	—	39	3	6	24	39	2	23	12	40	—	—	—	40	—	16	24

Ells Wide.	386				387				388				389				390			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	26	—	—	10	27	—	—	10	28	—	—	10	29	—	—	10	30
2	—	—	20	16	—	—	21	18	—	—	21	20	—	—	21	22	—	—	21	24
3	—	—	32	6	—	—	32	9	—	—	32	12	—	—	32	15	—	—	32	18
4	—	1	2	32	—	1	3	—	—	1	3	4	—	1	3	8	—	1	3	12
5	—	1	13	22	—	1	13	27	—	1	13	32	—	1	14	1	—	1	14	6
6	—	1	24	12	—	1	24	18	—	1	24	24	—	1	24	30	—	1	25	—
7	—	1	35	2	—	1	35	9	—	1	35	16	—	1	35	23	—	1	35	30
8	—	2	5	28	—	2	6	—	—	2	6	8	—	2	6	16	—	2	6	24
9	—	2	16	18	—	2	16	27	—	2	17	—	—	2	17	9	—	2	17	18
10	—	2	27	8	—	2	27	18	—	2	27	28	—	2	28	2	—	2	28	12
20	1	1	14	16	1	1	15	—	1	1	15	20	1	1	16	4	1	1	16	24
30	2	—	1	24	2	—	2	18	2	—	3	12	2	—	4	6	2	—	5	—
40	2	2	28	32	2	2	30	—	2	2	31	4	2	2	32	8	2	2	33	12
50	3	1	16	4	3	1	17	18	3	1	18	32	3	1	20	10	3	1	21	24
60	4	—	3	12	4	—	5	—	4	—	6	24	4	—	8	12	4	—	10	—
70	4	2	30	20	4	2	32	18	4	2	34	16	4	2	36	14	4	2	38	12
80	5	1	17	28	5	1	20	—	5	1	22	8	5	1	24	16	5	1	26	24
90	6	—	5	—	6	—	7	18	6	—	10	—	6	—	12	18	6	—	15	—
100	6	2	32	8	6	2	35	—	6	2	37	28	6	3	—	20	6	3	3	12
200	13	1	24	16	13	1	30	—	13	1	25	20	13	2	1	4	13	2	6	24
300	20	—	16	24	20	—	25	—	20	—	33	12	20	1	1	24	20	1	10	—
400	26	3	8	32	26	3	20	—	26	3	31	4	27	—	2	8	27	—	13	12
500	33	2	1	4	33	2	15	—	33	2	28	32	33	3	2	28	33	3	16	24
600	40	—	33	12	40	1	10	—	40	1	26	21	40	2	3	12	40	2	20	—

Ells Wide.	391 Ells Long.				392 Ells Long.				393 Ells Long.				394 Ells Long.				395 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	10	31	—	—	10	32	—	—	10	33	—	—	10	34	—	—	10	35
2	—	—	21	26	—	—	21	28	—	—	21	30	—	—	21	32	—	—	21	34
3	—	—	32	21	—	—	32	24	—	—	32	27	—	—	32	30	—	—	32	33
4	—	1	3	16	—	1	3	20	—	1	3	24	—	1	3	28	—	1	3	32
5	—	1	14	11	—	1	14	16	—	1	14	21	—	1	14	26	—	1	14	31
6	—	1	25	6	—	1	25	12	—	1	25	18	—	1	25	24	—	1	25	30
7	—	1	36	1	—	1	36	8	—	1	36	15	—	1	36	22	—	1	36	29
8	—	2	6	32	—	2	7	4	—	2	7	12	—	2	7	20	—	2	7	28
9	—	2	17	27	—	2	18	—	—	2	18	9	—	2	18	18	—	2	18	27
10	—	2	28	22	—	2	28	32	—	2	29	6	—	2	29	16	—	2	29	26
20	1	1	17	8	1	1	17	28	1	1	18	12	1	1	18	32	1	1	19	16
30	2	—	5	30	2	—	6	24	2	—	7	18	2	—	8	12	2	—	9	6
40	2	2	34	16	2	2	35	20	2	2	36	24	2	2	37	28	2	2	38	32
50	3	1	23	2	3	1	24	16	3	1	25	30	3	1	27	8	3	1	28	22
60	4	—	11	24	4	—	13	12	4	—	15	—	4	—	16	24	4	—	18	12
70	4	3	—	10	4	3	2	8	4	3	4	6	4	3	6	4	4	3	8	2
80	5	1	28	32	5	1	31	4	5	1	33	12	5	1	35	20	5	1	37	28
90	6	—	17	18	6	—	20	—	6	—	22	18	6	—	25	—	6	—	27	18
100	6	3	6	4	6	3	8	32	6	3	11	24	6	3	14	16	6	3	17	8
200	13	2	12	8	13	2	17	28	13	2	23	12	13	2	28	32	13	2	34	16
300	20	1	18	12	20	1	26	24	20	1	35	—	20	2	3	12	20	2	11	24
400	27	—	24	16	27	—	35	20	27	1	6	24	27	1	17	28	27	1	28	32
500	33	3	30	20	34	—	4	16	34	—	18	12	34	—	32	8	34	1	6	4
600	40	2	36	24	40	3	13	12	40	3	30	—	41	—	6	24	41	—	23	12

Ells Wide.	396				397				398				399				400			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	—	—	—	11	1	—	—	11	2	—	—	11	3	—	—	11	4
2	—	—	22	—	—	—	22	2	—	—	22	4	—	—	22	6	—	—	22	8
3	—	—	33	—	—	—	33	3	—	—	33	6	—	—	33	9	—	—	33	12
4	—	1	4	—	—	1	4	4	—	1	4	8	—	1	4	12	—	1	4	16
5	—	1	15	—	—	1	15	5	—	1	15	10	—	1	15	15	—	1	15	20
6	—	1	26	—	—	1	26	6	—	1	26	12	—	1	26	18	—	1	26	24
7	—	1	37	—	—	1	37	7	—	1	37	14	—	1	37	21	—	1	37	28
8	—	2	8	—	—	2	8	8	—	2	8	16	—	2	8	24	—	2	8	32
9	—	2	19	—	—	2	19	9	—	2	19	18	—	2	19	27	—	2	20	—
10	—	2	30	—	—	2	30	10	—	2	30	20	—	2	30	30	—	2	31	4
20	1	1	20	—	1	1	20	20	1	1	21	4	1	1	21	24	1	1	22	8
30	2	—	10	—	2	—	10	30	2	—	11	24	2	—	12	18	2	—	13	12
40	2	3	—	—	2	3	1	4	2	3	2	8	2	3	3	12	2	3	4	16
50	3	1	30	—	3	1	31	14	3	1	32	28	3	1	34	6	3	1	35	20
60	4	—	20	—	4	—	21	24	4	—	23	12	4	—	25	—	4	—	26	24
70	4	3	10	—	4	3	11	34	4	3	13	32	4	3	15	30	4	3	17	28
80	5	2	—	—	5	2	2	8	5	2	4	16	5	2	6	24	5	2	8	32
90	6	—	30	—	6	—	32	18	6	—	35	—	6	—	37	18	6	1	—	—
100	6	3	20	—	6	3	22	28	6	3	25	20	6	3	28	12	6	3	31	4
200	13	3	—	—	13	3	5	20	13	3	11	4	13	3	16	24	13	3	22	8
300	20	2	20	—	20	2	28	12	20	2	36	24	20	3	5	—	20	3	13	12
400	27	2	—	—	27	2	11	4	27	2	22	8	27	2	33	12	27	3	4	16
500	34	1	20	—	34	1	33	32	34	2	7	28	34	2	21	24	34	2	35	20
600	41	1	—	—	41	1	16	24	41	1	33	12	41	2	10	—	41	2	26	24

Ells Wide	401 Ells Long.				402 Ells Long.				403 Ells Long.				404 Ells Long.				405 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	5	—	—	11	6	—	—	11	7	—	—	11	8	—	—	11	9
2	—	—	22	10	—	—	22	12	—	—	22	14	—	—	22	16	—	—	22	18
3	—	—	33	15	—	—	33	18	—	—	33	21	—	—	33	24	—	—	33	27
4	—	1	4	20	—	1	4	24	—	1	4	28	—	1	4	32	—	1	5	—
5	—	1	15	25	—	1	15	30	—	1	15	35	—	1	16	4	—	1	16	9
6	—	1	26	30	—	1	27	—	—	1	27	6	—	1	27	12	—	1	27	18
7	—	1	37	35	—	1	38	6	—	1	38	13	—	1	38	20	—	1	38	27
8	—	2	9	4	—	2	9	12	—	2	9	20	—	2	9	28	—	2	10	—
9	—	2	20	9	—	2	20	18	—	2	20	27	—	2	21	—	—	2	21	9
10	—	2	31	14	—	2	31	24	—	2	31	34	—	2	32	8	—	2	32	18
20	1	1	22	28	1	1	23	12	1	1	23	32	1	1	24	16	1	1	25	—
30	2	—	14	6	2	—	15	—	2	—	15	30	2	—	16	24	2	—	17	18
40	2	3	5	20	2	3	6	24	2	3	7	28	2	3	8	32	2	3	10	—
50	3	1	36	34	3	1	38	12	3	1	39	26	3	2	1	4	3	2	2	18
60	4	—	28	12	4	—	30	—	4	—	31	24	4	—	33	12	4	—	35	—
70	4	3	19	26	4	3	21	24	4	3	23	22	4	3	25	20	4	3	27	18
80	5	2	11	4	5	2	13	12	5	2	15	20	5	2	17	28	5	2	20	—
90	6	1	2	18	6	1	5	—	6	1	7	18	6	1	10	—	6	1	12	18
100	6	3	33	32	6	3	36	24	6	3	39	16	7	—	2	8	7	—	5	—
200	13	3	27	28	13	3	33	12	13	3	38	32	14	—	4	16	14	—	10	—
300	20	3	21	24	20	3	30	—	20	3	38	12	21	—	6	24	21	—	15	—
400	27	3	15	20	27	3	26	24	27	3	37	28	28	—	8	32	28	—	20	—
500	34	3	9	16	34	3	23	12	34	3	37	8	35	—	11	4	35	—	25	—
600	41	3	3	12	41	3	20	—	41	3	36	24	42	—	13	12	42	—	30	—

Ells Wide.	406 Ells Long.				407 Ells Long.				408 Ells Long.				409 Ells Long.				410 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	10	—	—	11	11	—	—	11	12	—	—	11	13	—	—	11	14
2	—	—	22	20	—	—	22	22	—	—	22	24	—	—	22	26	—	—	22	28
3	—	—	33	30	—	—	34	33	—	—	34	—	—	—	34	3	—	—	34	6
4	—	1	5	4	—	1	5	8	—	1	5	12	—	1	5	16	—	1	5	20
5	—	1	16	14	—	1	16	19	—	1	16	24	—	1	16	29	—	1	16	34
6	—	1	27	24	—	1	27	30	—	1	28	—	—	1	28	6	—	1	28	12
7	—	1	38	34	—	1	39	5	—	1	39	12	—	1	39	19	—	1	39	26
8	—	2	10	8	—	2	10	16	—	2	10	24	—	2	10	32	—	2	11	4
9	—	2	21	18	—	2	21	27	—	2	22	—	—	2	22	9	—	2	22	18
10	—	2	32	28	—	2	33	2	—	2	33	12	—	2	33	22	—	2	33	32
20	1	1	25	20	1	1	26	4	1	1	26	24	1	1	27	8	1	1	27	28
30	2	—	18	12	2	—	19	6	2	—	20	—	2	—	20	30	2	—	21	24
40	2	3	11	4	2	3	12	8	2	3	13	12	2	3	14	16	2	3	15	20
50	3	2	3	32	3	2	5	10	3	2	6	24	3	2	8	2	3	2	9	16
60	4	—	36	24	4	—	38	12	4	1	—	—	4	1	1	24	4	1	3	12
70	4	3	29	16	4	3	31	14	4	3	33	12	4	3	35	10	4	3	37	8
80	5	2	22	8	5	2	24	16	5	2	26	24	5	2	28	32	5	2	31	4
90	6	1	15	—	6	1	17	18	6	1	20	—	6	1	22	18	6	1	25	—
100	7	—	7	28	7	—	10	20	7	—	13	12	7	—	16	4	7	—	18	32
200	14	—	15	20	14	—	21	4	14	—	26	24	14	—	32	8	14	—	37	28
300	21	—	23	12	21	—	31	24	21	1	—	—	21	1	8	12	21	1	16	24
400	28	—	31	4	28	1	2	8	28	1	13	12	28	1	24	16	28	1	35	20
500	35	—	38	32	35	1	12	28	35	1	26	24	35	2	—	20	35	2	14	16
600	42	1	6	24	42	1	23	12	42	—	—	—	42	2	16	24	42	2	33	12

Ells Wide.	411 Ells Long.				412 Ells Long.				413 Ells Long.				414 Ells Long.				415 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	11	15	—	—	11	16	—	—	11	17	—	—	11	18	—	—	11	19		
2	—	—	22	30	—	—	22	32	—	—	22	34	—	—	23	—	—	—	23	2		
3	—	—	34	9	—	—	34	12	—	—	34	15	—	—	34	18	—	—	34	21		
4	—	1	5	24	—	1	5	28	—	1	5	32	—	1	6	—	—	—	1	6	4	
5	—	1	17	3	—	1	17	8	—	1	17	13	—	1	17	18	—	—	1	17	23	
6	—	1	28	18	—	1	28	24	—	1	28	30	—	1	29	—	—	—	1	29	6	
7	—	1	39	33	—	2	—	4	—	2	—	11	—	2	—	18	—	—	2	—	25	
8	—	2	11	12	—	2	11	20	—	2	11	28	—	2	12	—	—	—	2	12	8	
9	—	2	22	27	—	2	23	—	—	2	23	9	—	2	23	18	—	—	2	23	27	
10	—	2	34	6	—	2	34	16	—	2	34	26	—	2	35	—	—	—	2	35	10	
20	1	1	28	12	1	1	28	32	1	1	29	16	1	1	30	—	—	—	1	1	30	20
30	2	—	22	18	2	—	23	12	2	—	24	6	2	—	25	—	—	—	2	—	25	30
40	2	3	16	24	2	3	17	28	2	3	18	32	2	3	20	—	—	—	2	3	21	4
50	3	2	10	30	3	2	12	8	3	2	13	22	3	2	15	—	—	—	3	3	16	14
60	4	1	5	—	4	1	6	24	4	1	8	12	4	1	10	—	—	—	4	1	11	24
70	4	3	39	6	5	—	1	4	5	—	3	2	5	—	5	—	—	—	5	—	6	34
80	5	2	33	12	5	2	35	20	5	2	37	28	5	3	—	—	—	—	5	3	2	8
90	6	1	27	18	6	1	30	—	6	1	32	18	6	1	35	—	—	—	6	1	37	18
100	7	—	21	24	7	—	24	16	7	—	27	8	7	—	30	—	—	—	7	—	32	28
200	14	1	3	12	14	1	8	32	14	1	14	16	14	1	20	—	—	—	14	1	25	20
300	21	1	25	—	21	1	33	12	21	2	1	24	21	2	10	—	—	—	21	2	18	12
400	28	2	6	24	28	2	17	28	28	2	28	32	28	3	—	—	—	—	28	3	11	4
500	35	2	28	12	35	3	2	8	35	3	16	4	35	3	30	—	—	—	36	—	3	32
600	42	3	10	—	42	3	26	24	43	—	3	12	43	—	20	—	—	—	43	—	36	24

Ells Wjac.	416 Ells Long.				417 Ells Long.				418 Ells Long.				419 Ells Long.				420 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	20	—	—	11	21	—	—	11	22	—	—	11	23	—	—	11	24
2	—	—	23	4	—	—	23	6	—	—	23	8	—	—	23	10	—	—	23	12
3	—	—	34	24	—	—	34	27	—	—	34	30	—	—	34	33	—	—	35	—
4	—	1	6	8	—	1	6	12	—	1	6	16	—	1	6	20	—	1	6	24
5	—	1	17	28	—	1	17	33	—	1	18	2	—	1	18	7	—	1	18	12
6	—	1	29	12	—	1	29	18	—	1	29	24	—	1	29	30	—	1	30	—
7	—	2	—	32	—	2	1	3	—	2	1	10	—	2	1	17	—	2	1	24
8	—	2	12	16	—	2	12	24	—	2	12	32	—	2	13	4	—	2	13	12
9	—	2	24	—	—	2	24	9	—	2	24	18	—	2	24	27	—	2	25	—
10	—	2	35	20	—	2	35	30	—	2	36	4	—	2	36	14	—	2	36	24
20	1	1	31	4	1	1	31	24	1	1	32	8	1	1	32	28	1	1	33	12
30	2	—	26	24	2	—	27	18	2	—	28	12	2	—	29	6	2	—	30	—
40	2	3	22	8	2	3	23	12	2	3	24	16	2	3	25	20	2	3	26	24
50	3	2	17	28	3	2	19	6	3	2	20	20	3	2	21	34	3	2	23	12
60	4	1	13	12	4	1	15	—	4	1	16	24	4	1	18	12	4	1	20	—
70	5	—	8	32	5	—	10	30	5	—	12	28	5	—	14	26	5	—	16	24
80	5	3	4	16	5	3	6	24	5	3	8	32	5	3	11	4	5	3	13	12
90	6	2	—	—	6	2	2	18	6	2	5	—	6	2	7	18	6	2	10	—
100	7	—	35	20	7	—	38	12	7	1	1	4	7	1	3	32	7	1	6	24
200	14	1	31	4	14	1	36	24	14	2	2	8	14	2	7	28	14	2	13	12
300	21	2	26	24	21	2	35	—	21	3	3	12	21	3	11	24	21	3	20	—
400	28	3	22	8	28	3	33	12	29	—	4	16	29	—	15	20	29	—	26	24
500	36	—	17	28	36	—	31	24	36	1	5	20	36	1	19	16	36	1	33	12
600	43	1	13	12	43	1	30	—	43	2	6	24	43	2	23	12	43	3	—	—

Ells Wide.	421 Ells Long.				422 Ells Long.				423 Ells Long.				424 Ells Long.				425 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	25	—	—	11	26	—	—	11	27	—	—	11	28	—	—	11	29
2	—	—	23	14	—	—	23	16	—	—	23	18	—	—	23	20	—	—	23	22
3	—	—	35	3	—	—	35	6	—	—	35	9	—	—	35	12	—	—	35	15
4	—	1	6	28	—	1	6	32	—	1	7	—	—	1	7	4	—	1	7	8
5	—	1	18	17	—	1	18	22	—	1	18	27	—	1	18	32	—	1	19	1
6	—	1	30	6	—	1	30	12	—	1	30	18	—	1	30	24	—	1	30	30
7	—	2	1	31	—	2	2	2	—	2	2	9	—	2	2	16	—	2	2	23
8	—	2	13	20	—	2	13	28	—	2	14	—	—	2	14	8	—	2	14	16
9	—	2	25	9	—	2	25	18	—	2	25	27	—	2	26	—	—	2	26	9
10	—	2	36	34	—	2	37	8	—	2	37	18	—	2	37	28	—	2	38	2
20	1	1	33	32	1	1	34	16	1	1	35	—	1	1	35	20	1	1	36	4
30	2	—	30	30	2	—	31	24	2	—	32	18	2	—	33	12	2	—	34	6
40	2	3	27	28	2	3	28	32	2	3	30	—	2	3	31	4	2	3	32	8
50	3	2	24	26	3	2	26	4	3	2	27	18	3	2	28	32	3	2	30	10
60	4	1	21	24	4	1	23	12	4	1	25	—	4	1	26	24	4	1	28	12
70	5	—	18	22	5	—	20	20	5	—	22	18	5	—	24	16	5	—	26	14
80	5	3	15	20	5	3	17	28	5	3	20	—	5	3	22	8	5	3	24	16
90	6	2	12	18	6	2	15	—	6	2	17	18	6	2	20	—	6	2	22	18
100	7	1	9	16	7	1	12	8	7	1	15	—	7	1	17	28	7	1	20	20
200	14	2	18	32	14	2	24	16	14	2	30	—	14	2	35	20	14	3	1	4
300	21	3	28	12	21	3	36	24	22	—	5	—	22	—	13	12	22	—	21	24
400	29	—	37	28	29	1	8	32	29	1	20	—	29	1	31	4	29	2	2	8
500	36	2	7	8	36	2	21	4	36	2	35	—	36	3	8	32	6	3	22	28
600	43	3	16	24	43	3	33	12	44	—	10	—	44	—	26	24	44	1	3	12

Ells Wide.	426 Ells Long.				427 Ells Long.				428 Ells Long.				429 Ells Long.				430 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	30	—	—	11	31	—	—	11	32	—	—	11	33	—	—	11	34
2	—	—	23	24	—	—	23	26	—	—	23	28	—	—	23	30	—	—	23	32
3	—	—	35	18	—	—	35	21	—	—	35	24	—	—	35	27	—	—	35	30
4	—	1	7	12	—	1	7	16	—	1	7	20	—	1	7	24	—	1	7	28
5	—	1	19	6	—	1	19	11	—	1	19	16	—	1	19	21	—	1	19	26
6	—	1	31	—	—	1	31	6	—	1	31	12	—	1	31	18	—	1	31	24
7	—	2	2	30	—	2	3	1	—	2	3	8	—	2	3	15	—	2	3	22
8	—	2	14	24	—	2	14	32	—	2	15	4	—	2	15	12	—	2	15	20
9	—	2	26	18	—	2	26	27	—	2	27	—	—	2	27	9	—	2	27	18
10	—	2	38	12	—	2	38	22	—	2	38	32	—	2	39	6	—	2	39	16
20	1	1	36	24	1	1	37	8	1	1	37	28	1	1	38	12	1	1	38	32
30	2	—	35	—	2	—	35	30	2	—	36	24	2	—	37	18	2	—	38	12
40	2	3	33	12	2	3	34	16	2	3	35	20	2	3	36	24	2	3	37	28
50	3	2	31	24	3	2	33	2	3	2	34	16	3	2	35	30	3	2	37	8
60	4	1	30	—	4	1	31	24	4	1	33	12	4	1	35	—	4	1	36	24
70	5	—	28	12	5	—	30	10	5	—	32	8	5	—	34	6	5	—	36	4
80	5	3	26	24	5	3	28	32	5	3	31	4	5	3	33	12	5	3	35	20
90	6	2	25	—	6	2	27	18	6	2	30	—	6	2	32	18	6	2	35	—
100	7	1	23	12	7	1	26	4	7	1	28	32	7	1	31	24	7	1	34	16
200	14	3	6	24	14	3	12	8	14	3	17	28	14	3	23	12	14	3	28	32
300	22	—	30	—	22	—	38	12	22	1	6	24	22	1	15	—	22	1	23	12
400	29	2	13	12	29	2	24	16	29	2	35	20	29	3	6	24	29	3	17	28
500	36	3	36	24	37	—	10	20	37	—	24	16	37	—	38	12	37	1	12	8
600	44	1	20	—	44	1	36	24	44	2	13	12	44	2	30	—	44	3	6	24

Ells Widc.	431 Ells Long.				432 Ells Long.				433 Ells Long.				434 Ells Long.				435 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	11	35	—	—	12	—	—	—	12	1	—	—	12	2	—	—	12	3
2	—	—	23	34	—	—	24	—	—	—	24	2	—	—	24	4	—	—	24	6
3	—	—	35	33	—	—	36	—	—	—	36	3	—	—	36	6	—	—	36	9
4	—	1	7	32	—	1	8	—	—	1	8	4	—	1	8	8	—	1	8	12
5	—	1	19	31	—	1	20	—	—	1	20	5	—	1	20	10	—	1	20	15
6	—	1	31	30	—	1	32	—	—	1	32	6	—	1	32	12	—	1	32	18
7	—	2	3	29	—	2	4	—	—	2	4	7	—	2	4	14	—	2	4	21
8	—	2	15	28	—	2	16	—	—	2	16	8	—	2	16	16	—	2	16	24
9	—	2	27	27	—	2	28	—	—	2	28	9	—	2	28	18	—	2	28	27
10	—	2	39	26	—	3	—	—	—	3	—	10	—	3	—	20	—	3	—	30
20	1	1	39	16	1	2	—	—	1	2	—	20	1	2	1	4	1	2	1	24
30	2	—	39	6	2	1	—	—	2	1	—	30	2	1	1	24	2	1	2	18
40	2	3	38	32	3	—	—	—	3	—	1	4	3	—	2	8	3	—	3	12
50	3	2	38	22	3	3	—	—	3	3	1	14	3	3	2	28	3	3	4	6
60	4	1	38	12	4	2	—	—	4	2	1	24	4	2	3	12	4	2	5	—
70	5	—	38	2	5	1	—	—	5	1	1	34	5	1	3	32	5	1	5	30
80	5	3	37	28	6	—	—	—	6	—	2	8	6	—	4	16	6	—	6	24
90	6	2	37	18	6	3	—	—	6	3	2	18	6	3	5	—	6	3	7	18
100	7	1	37	8	7	2	—	—	7	2	2	28	7	2	5	20	7	2	8	12
200	14	3	34	16	15	—	—	—	15	—	5	20	15	—	11	4	15	—	16	24
300	22	1	31	24	22	2	—	—	22	2	8	12	22	2	16	24	22	2	25	—
400	29	3	28	32	30	—	—	—	30	—	11	4	30	—	22	8	30	—	33	12
500	37	1	26	4	37	2	—	—	37	2	13	32	37	2	27	28	37	3	1	24
600	44	3	23	12	45	—	—	—	45	—	16	24	45	—	33	12	45	1	10	—

Ells Wide.	436 Ells Long.				437 Ells Long.				438 Ells Long.				439 Ells Long.				440 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	4	—	—	12	5	—	—	12	6	—	—	12	7	—	—	12	8
2	—	—	24	8	—	—	24	10	—	—	24	12	—	—	24	14	—	—	24	16
3	—	—	36	12	—	—	36	15	—	—	36	18	—	—	36	21	—	—	36	24
4	—	1	8	16	—	1	8	20	—	1	8	24	—	1	8	28	—	1	8	32
5	—	1	20	20	—	1	20	25	—	1	20	30	—	1	20	35	—	1	21	4
6	—	1	32	24	—	1	32	30	—	1	33	—	—	1	33	6	—	1	33	12
7	—	2	4	28	—	2	4	35	—	2	5	6	—	2	5	13	—	2	5	20
8	—	2	16	32	—	2	17	4	—	2	17	12	—	2	17	20	—	2	17	28
9	—	2	29	—	—	2	29	9	—	2	29	18	—	2	29	27	—	2	30	—
10	—	3	1	4	—	3	1	14	—	3	1	24	—	3	1	34	—	3	2	8
20	1	2	2	8	1	2	2	28	1	2	3	12	1	2	3	32	1	2	4	16
30	2	1	3	12	2	1	4	6	2	1	5	—	2	1	5	30	2	1	6	24
40	3	—	4	16	3	—	5	20	3	—	6	24	3	—	7	28	3	—	8	32
50	3	3	5	20	3	3	6	34	3	3	8	12	3	3	9	26	3	3	11	4
60	4	2	6	24	4	2	8	12	4	2	10	—	4	2	11	24	4	2	13	12
70	5	1	7	28	5	1	9	26	5	1	11	24	5	1	13	22	5	1	15	20
80	6	—	8	32	6	—	11	4	6	—	13	12	6	—	15	20	6	—	17	28
90	6	3	10	—	6	3	12	18	6	3	15	—	6	3	17	18	6	3	20	—
100	7	2	11	4	7	2	13	32	7	2	16	24	7	2	19	16	7	2	22	8
200	15	—	22	8	15	—	27	28	15	—	33	12	15	—	38	32	15	1	4	16
300	22	2	33	12	22	3	1	24	22	3	10	—	22	3	18	12	22	3	26	24
400	30	1	4	16	30	1	15	20	30	1	26	24	30	1	37	28	30	2	8	32
500	37	3	15	20	37	3	29	16	38	—	3	12	38	—	17	8	38	—	31	4
600	45	1	26	24	45	2	3	12	45	2	20	—	45	2	36	24	45	3	13	12

Ells Wide.	441 Ells Long.				442 Ells Long.				443 Ells Long.				444 Ells Long.				445 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	9	—	—	12	10	—	—	12	11	—	—	12	12	—	—	12	13
2	—	—	24	18	—	—	24	20	—	—	24	22	—	—	24	24	—	—	24	26
3	—	—	36	27	—	—	36	30	—	—	36	33	—	—	37	—	—	—	37	3
4	—	1	9	—	—	1	9	4	—	1	9	8	—	1	9	12	—	1	9	16
5	—	1	21	9	—	1	21	14	—	1	21	19	—	1	21	24	—	1	21	29
6	—	1	33	18	—	1	33	24	—	1	33	30	—	1	34	—	—	1	34	6
7	—	2	5	27	—	2	5	34	—	2	6	5	—	2	6	12	—	2	6	19
8	—	2	18	—	—	2	18	8	—	2	18	16	—	2	18	24	—	2	18	32
9	—	2	30	9	—	2	30	18	—	2	30	27	—	2	31	—	—	2	31	9
10	—	3	2	18	—	3	2	28	—	3	3	2	—	3	3	12	—	3	3	22
20	1	2	5	—	1	2	5	20	1	2	6	4	1	2	6	24	1	2	7	8
30	2	1	7	18	2	1	8	12	2	1	9	6	2	1	10	—	2	1	10	30
40	3	—	10	—	3	—	11	4	3	—	12	8	3	—	13	12	3	—	14	16
50	3	3	12	18	3	3	13	32	3	3	15	10	3	3	16	24	3	3	18	2
60	4	2	15	—	4	2	16	24	4	2	18	12	4	2	20	—	4	2	21	24
70	5	1	17	18	5	1	19	16	5	1	21	14	5	1	23	12	5	1	25	10
80	6	—	20	—	6	—	22	8	6	—	24	16	6	—	26	24	6	—	28	32
90	6	3	22	18	6	3	25	—	6	3	27	18	6	3	30	—	6	3	32	18
100	7	2	25	—	7	2	27	28	7	2	30	20	7	2	33	12	7	2	36	4
200	15	1	10	—	15	1	15	20	15	1	21	4	15	1	26	24	15	1	32	8
300	22	3	35	—	23	—	3	12	23	—	11	24	23	—	20	—	23	—	28	12
400	30	2	20	—	30	2	31	4	30	3	2	8	30	3	13	12	30	3	24	16
500	38	1	5	—	38	1	18	32	38	1	32	28	38	2	6	24	38	2	20	20
600	45	3	30	—	46	—	6	24	46	—	23	12	46	1	—	—	46	1	16	24

Ells Wide.	446 Ells Long.				447 Ells Long.				448 Ells Long.				449 Ells Long.				450 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	14	—	—	12	15	—	—	12	16	—	—	12	17	—	—	12	18
2	—	—	24	28	—	—	24	30	—	—	24	32	—	—	24	34	—	—	25	—
3	—	—	37	6	—	—	37	9	—	—	37	12	—	—	37	15	—	—	37	18
4	—	1	9	20	—	1	9	24	—	1	9	28	—	1	9	32	—	1	10	—
5	—	1	21	34	—	1	22	3	—	1	22	8	—	1	22	13	—	1	22	18
6	—	1	34	12	—	1	34	18	—	1	34	24	—	1	34	30	—	1	35	—
7	—	2	6	26	—	2	6	33	—	2	7	4	—	2	7	11	—	2	7	18
8	—	2	19	4	—	2	19	12	—	2	19	20	—	2	19	28	—	2	20	—
9	—	2	31	18	—	2	31	27	—	2	32	—	—	2	32	9	—	2	32	18
10	—	3	3	32	—	3	4	6	—	3	4	16	—	3	4	26	—	3	5	—
20	1	2	7	28	1	2	8	12	1	2	8	32	1	2	9	16	1	2	10	—
30	2	1	11	24	2	1	12	18	2	1	13	12	2	1	14	6	2	1	15	—
40	3	—	15	20	3	—	16	24	3	—	17	28	3	—	18	32	3	—	20	—
50	3	3	19	16	3	3	20	30	3	3	22	8	3	3	23	22	3	3	25	—
60	4	2	23	12	4	2	25	—	4	2	26	24	4	2	28	12	4	2	30	—
70	5	1	27	8	5	1	29	6	5	1	31	4	5	1	33	2	5	1	35	—
80	6	—	31	4	6	—	33	12	6	—	35	20	6	—	37	28	6	1	—	—
90	6	3	35	—	6	3	37	18	7	—	—	—	7	—	2	18	7	—	5	—
100	7	2	38	32	7	3	1	24	7	3	4	16	7	3	7	8	7	3	10	—
200	15	1	37	28	15	2	3	12	15	2	8	32	15	2	14	16	15	2	20	—
300	23	—	36	24	23	1	5	—	23	1	13	12	23	1	21	24	23	1	30	—
400	30	3	35	20	31	—	6	24	31	—	17	28	31	—	28	32	31	1	—	—
500	38	2	34	16	38	3	8	12	38	3	22	8	38	3	36	4	39	—	10	—
600	46	1	33	12	46	2	10	—	46	2	26	24	46	3	3	12	46	3	20	—

Ells Wide.	451 Ells Long.				452 Ells Long.				453 Ells Long.				454 Ells Long.				455 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	19	—	—	12	20	—	—	12	21	—	—	12	22	—	—	12	23
2	—	—	25	2	—	—	25	4	—	—	25	6	—	—	25	8	—	—	25	10
3	—	—	37	21	—	—	37	24	—	—	37	27	—	—	37	30	—	—	37	33
4	—	1	10	4	—	1	10	8	—	1	10	12	—	1	10	16	—	1	10	20
5	—	1	22	23	—	1	22	28	—	1	22	33	—	1	23	2	—	1	23	7
6	—	1	35	6	—	1	35	12	—	1	35	18	—	1	35	24	—	1	35	30
7	—	2	7	25	—	2	7	32	—	2	8	3	—	2	8	10	—	2	8	17
8	—	2	20	8	—	2	20	16	—	2	20	24	—	2	20	32	—	2	21	4
9	—	2	32	27	—	2	33	—	—	2	33	9	—	2	33	18	—	2	33	27
10	—	3	5	10	—	3	5	20	—	3	5	30	—	3	6	4	—	3	6	14
20	1	2	10	20	1	2	11	4	1	2	11	24	1	2	12	8	1	2	12	28
30	2	1	15	30	2	1	16	24	2	1	17	18	2	1	18	12	2	1	19	6
40	3	—	21	4	3	—	22	8	3	—	23	12	3	—	24	16	3	—	25	20
50	3	3	26	14	3	3	27	28	3	3	29	6	3	3	30	20	3	3	31	34
60	4	2	31	24	4	2	33	12	4	2	35	—	4	2	36	24	4	2	38	12
70	5	1	36	34	5	1	38	32	5	2	—	30	5	2	2	28	5	2	4	26
80	6	1	2	8	6	1	4	16	6	1	6	24	6	1	8	32	6	1	11	4
90	7	—	7	18	7	—	10	—	7	—	12	18	7	—	15	—	7	—	17	18
100	7	3	12	28	7	3	15	20	7	3	18	12	7	3	21	4	7	3	23	32
200	15	2	25	20	15	2	31	4	15	2	36	24	15	3	2	8	15	3	7	28
300	25	1	38	12	23	2	6	24	23	2	15	—	23	2	23	12	23	2	31	24
400	31	1	11	4	31	1	22	8	31	1	33	12	31	2	4	16	31	2	15	20
500	39	—	23	32	39	—	37	28	39	1	11	24	39	1	25	20	39	1	39	16
600	46	3	36	24	47	—	13	12	47	—	30	—	47	1	6	24	47	1	23	12

Ells Wide.	456 Ells Long.				457 Ells Long.				458 Ells Long.				459 Ells Long.				460 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	24	—	—	12	25	—	—	12	26	—	—	12	27	—	—	12	28
2	—	—	25	12	—	—	25	14	—	—	25	16	—	—	25	18	—	—	25	20
3	—	—	38	—	—	—	38	3	—	—	38	6	—	—	38	9	—	—	38	12
4	—	1	10	24	—	1	10	28	—	1	10	32	—	1	11	—	—	1	11	4
5	—	1	23	12	—	1	23	17	—	1	23	22	—	1	23	27	—	1	23	32
6	—	1	36	—	—	1	36	6	—	1	36	12	—	1	36	18	—	1	36	24
7	—	2	8	24	—	2	8	31	—	2	9	2	—	2	9	9	—	2	9	16
8	—	2	21	12	—	2	21	20	—	2	21	28	—	2	22	—	—	2	22	8
9	—	2	34	—	—	2	34	9	—	2	34	18	—	2	34	27	—	2	35	—
10	—	3	6	24	—	3	6	34	—	3	7	8	—	3	7	18	—	3	7	28
20	1	2	13	12	1	2	13	32	1	2	14	16	1	2	15	—	1	2	15	20
30	2	1	20	—	2	1	20	30	2	1	21	24	2	1	22	18	2	1	23	12
40	3	—	26	24	3	—	27	28	3	—	28	32	3	—	30	—	3	—	31	4
50	3	3	33	12	3	3	34	26	3	3	36	4	3	3	37	18	3	3	38	32
60	4	3	—	—	4	3	1	24	4	3	3	12	4	3	5	—	4	3	6	24
70	5	2	6	24	5	2	8	22	5	2	10	20	5	2	12	18	5	2	14	16
80	6	1	13	12	6	1	15	20	6	1	17	28	6	1	20	—	6	1	22	8
90	7	—	20	—	7	—	22	18	7	—	25	—	7	—	27	18	7	—	30	—
100	7	3	26	24	7	3	29	16	7	3	32	8	7	3	35	—	7	3	37	28
200	15	3	13	12	15	3	18	32	15	3	24	16	15	3	30	—	15	3	35	20
300	23	3	—	—	23	3	8	12	23	3	16	24	23	3	25	—	23	3	33	12
400	31	2	26	24	31	2	37	28	31	3	8	32	31	3	20	—	31	3	31	4
500	39	2	13	12	39	2	27	8	39	3	1	4	39	3	15	—	39	3	28	32
600	47	2	—	—	47	2	16	24	47	2	33	12	47	3	10	—	47	3	26	24

Ells Wide.	461 Ells Long.				462 Ells Long.				463 Ells Long.				464 Ells Long.				465 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	29	—	—	12	30	—	—	12	31	—	—	12	32	—	—	12	33
2	—	—	25	22	—	—	25	24	—	—	25	26	—	—	25	28	—	—	25	30
3	—	—	38	15	—	—	38	18	—	—	38	21	—	—	38	24	—	—	38	27
4	—	1	11	8	—	1	11	12	—	1	11	16	—	1	11	20	—	1	11	24
5	—	1	24	1	—	1	24	6	—	1	24	11	—	1	24	16	—	1	24	21
6	—	1	36	30	—	1	37	—	—	1	37	6	—	1	37	12	—	1	37	18
7	—	2	9	23	—	2	9	30	—	2	10	1	—	2	10	8	—	2	10	15
8	—	2	22	16	—	2	22	24	—	2	22	32	—	2	23	4	—	2	23	12
9	—	2	35	9	—	2	35	18	—	2	35	27	—	2	36	—	—	2	36	9
10	—	3	8	2	—	3	8	12	—	3	8	22	—	3	8	32	—	3	9	6
20	1	2	16	4	1	2	16	24	1	2	17	8	1	2	17	28	1	2	18	12
30	2	1	24	6	2	1	25	—	2	1	25	30	2	1	26	24	2	1	27	18
40	3	—	32	8	3	—	33	12	3	—	34	16	3	—	35	20	3	—	36	24
50	4	—	—	10	4	—	1	24	4	—	3	2	4	—	4	16	4	—	5	30
60	4	3	8	12	4	3	10	—	4	3	11	24	4	3	13	12	4	3	15	—
70	5	2	16	14	5	2	18	12	5	2	20	10	5	2	22	8	5	2	24	6
80	6	1	24	16	6	1	26	24	6	1	28	32	6	1	31	4	6	1	33	12
90	7	—	32	18	7	—	35	—	7	—	37	18	7	1	—	—	7	1	2	18
100	8	—	—	20	8	—	3	12	8	—	6	4	8	—	8	32	8	—	11	24
200	16	—	1	4	16	—	6	24	16	—	12	8	16	—	17	28	16	—	23	12
300	24	—	1	24	24	—	10	—	24	—	18	12	24	—	26	24	24	—	35	—
400	32	—	2	8	32	—	13	12	32	—	24	16	32	—	35	20	32	1	6	24
500	40	—	2	28	40	—	16	24	40	—	30	20	40	1	4	16	40	1	18	12
600	48	—	3	12	48	—	20	—	48	—	36	24	48	1	13	12	48	1	30	—

Ells Wide	466 Ells Long.				467 Ells Long.				468 Ells Long.				469 Ells Long.				470 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	12	34	—	—	12	35	—	—	13	—	—	13	1	—	—	13	2	
2	—	—	25	32	—	—	25	34	—	—	26	—	—	26	2	—	—	26	4	
3	—	—	38	30	—	—	38	33	—	—	39	—	—	39	3	—	—	39	6	
4	—	1	11	28	—	1	11	32	—	1	12	—	—	1	12	4	—	1	12	8
5	—	1	24	26	—	1	24	31	—	1	25	—	—	1	25	5	—	1	25	10
6	—	1	37	24	—	1	37	30	—	1	38	—	—	1	38	6	—	1	38	12
7	—	2	10	22	—	2	10	29	—	2	11	—	—	2	11	7	—	2	11	14
8	—	2	23	20	—	2	23	28	—	2	24	—	—	2	24	8	—	2	24	16
9	—	2	36	18	—	2	37	27	—	2	37	—	—	2	37	9	—	2	37	18
10	—	3	9	16	—	3	9	26	—	3	10	—	—	3	10	10	—	3	10	20
20	1	2	18	32	1	2	19	16	1	2	20	—	—	1	2	20	20	1	2	4
30	2	1	28	12	2	1	29	6	2	1	30	—	—	2	1	30	30	2	1	24
40	3	—	37	28	3	—	38	32	3	1	—	—	—	3	1	1	4	3	1	8
50	4	—	7	8	4	—	8	22	4	—	10	—	—	4	—	11	14	4	—	28
60	4	3	16	24	4	3	18	12	4	3	20	—	—	4	3	21	24	4	3	12
70	5	2	26	4	5	2	28	2	5	2	30	—	—	5	2	31	34	5	2	32
80	6	1	35	20	6	1	37	28	6	2	—	—	—	6	2	2	8	6	2	16
90	7	1	5	—	7	1	7	18	7	1	10	—	—	7	1	12	18	7	1	—
100	8	—	14	16	8	—	17	8	8	—	20	—	—	8	—	22	28	8	—	20
200	16	—	28	32	16	—	34	16	16	1	—	—	—	16	1	5	20	16	1	4
300	24	1	3	12	24	1	11	24	24	1	20	—	—	24	1	28	12	24	1	24
400	32	1	17	28	32	1	28	32	32	2	—	—	—	32	2	11	4	32	2	8
500	40	1	32	8	40	2	6	4	40	2	20	—	—	40	2	33	32	40	3	28
600	48	2	6	24	48	2	23	12	48	3	—	—	—	48	3	16	24	48	3	12

Ells Wide.	471 Ells Long.				472 Ells Long.				473 Ells Long.				474 Ells Long.				475 Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	13	3	—	—	13	4	—	—	13	5	—	—	13	6	—	—	13	7	
2	—	—	26	6	—	—	26	8	—	—	26	10	—	—	26	12	—	—	26	14	
3	—	—	39	9	—	—	39	12	—	—	39	15	—	—	39	18	—	—	39	21	
4	—	1	12	12	—	1	12	16	—	1	12	20	—	1	12	24	—	—	1	12	28
5	—	1	25	15	—	1	25	20	—	1	25	25	—	1	25	30	—	—	1	25	35
6	—	1	38	18	—	1	38	24	—	1	38	30	—	1	39	—	—	—	1	39	6
7	—	2	11	21	—	2	11	28	—	2	11	35	—	2	12	6	—	—	2	12	13
8	—	2	24	24	—	2	24	32	—	2	25	4	—	2	25	12	—	—	2	25	20
9	—	2	37	27	—	2	38	—	—	2	38	9	—	2	38	18	—	—	2	38	27
10	—	3	10	30	—	3	11	4	—	3	11	14	—	3	11	24	—	—	3	11	34
20	1	2	21	24	1	2	22	8	1	2	22	28	1	2	23	12	1	2	23	32	
30	2	1	32	18	2	1	33	12	2	1	34	6	2	1	35	—	2	1	35	30	
40	3	1	3	12	3	1	4	16	3	1	5	20	3	1	6	24	3	1	7	28	
50	4	—	14	6	4	—	15	20	4	—	16	34	4	—	18	12	4	—	19	26	
60	4	3	25	—	4	3	26	24	4	3	28	12	4	3	30	—	4	3	31	24	
70	5	2	35	30	5	2	37	28	5	2	39	26	5	3	1	24	5	3	3	22	
80	6	2	6	24	6	2	8	32	6	2	11	4	6	2	13	12	6	2	15	20	
90	7	1	17	18	7	1	20	—	7	1	22	18	7	1	25	—	7	1	27	18	
100	8	—	28	12	8	—	31	4	8	—	33	32	8	—	36	24	8	—	39	16	
200	16	1	16	24	16	1	22	8	16	1	27	28	16	1	33	12	16	1	38	32	
300	24	2	5	—	24	2	13	12	24	2	21	24	24	2	30	—	24	2	38	12	
400	32	3	33	12	32	3	4	16	32	3	15	20	32	3	26	24	32	3	37	28	
500	40	3	21	24	40	3	35	20	41	—	9	16	41	—	23	12	41	—	37	8	
600	49	—	10	—	49	—	26	24	49	1	3	12	49	1	20	—	49	1	36	24	

Ells Wide.	476 Ells Long.				477 Ells Long.				478 Ells Long.				479 Ells Long.				480 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	13	8	—	—	13	9	—	—	13	10	—	—	13	11	—	—	13	12		
2	—	—	26	16	—	—	26	18	—	—	26	20	—	—	26	22	—	—	26	24		
3	—	—	39	24	—	—	39	27	—	—	39	30	—	—	39	33	—	1	—	—		
4	—	1	12	32	—	1	13	—	—	1	13	4	—	1	13	8	—	1	13	12		
5	—	1	26	4	—	1	26	9	—	1	26	14	—	1	26	19	—	1	26	24		
6	—	1	39	12	—	1	39	18	—	1	39	24	—	1	39	30	—	2	—	—		
7	—	2	12	20	—	2	12	27	—	2	12	34	—	2	13	5	—	2	13	12		
8	—	2	25	28	—	2	26	—	—	2	26	8	—	2	26	16	—	2	26	24		
9	—	2	39	—	—	2	39	9	—	2	39	18	—	2	39	27	—	3	—	—		
10	—	3	12	8	—	3	12	18	—	3	12	28	—	3	13	2	—	3	13	12		
20	1	2	24	16	1	2	25	—	—	1	2	25	20	1	2	26	4	1	2	26	24	
30	2	1	36	24	2	1	37	18	—	2	1	38	12	2	1	39	6	2	2	—	—	
40	3	1	8	32	3	1	10	—	—	3	1	11	4	3	1	12	8	3	1	13	12	
50	4	—	21	4	4	—	22	18	—	4	—	23	32	4	—	25	10	4	—	26	24	
60	4	3	33	12	4	3	35	—	—	4	3	36	24	4	3	38	12	5	—	—	—	
70	5	3	5	20	5	3	7	18	—	5	3	9	16	5	3	11	14	5	3	13	12	
80	6	2	17	28	6	2	20	—	—	6	2	22	8	6	2	24	16	6	2	26	24	
90	7	1	30	—	—	7	1	32	18	—	7	1	35	—	7	1	37	18	7	2	—	—
100	8	1	2	8	8	1	5	—	—	8	1	7	28	8	1	10	20	8	1	13	12	
200	16	2	4	16	16	2	10	—	—	16	2	15	20	16	2	21	4	16	2	26	24	
300	24	3	6	24	24	3	15	—	—	24	3	23	12	24	3	31	24	25	—	—	—	
400	33	—	8	32	33	—	20	—	—	33	—	31	4	33	1	2	8	33	1	13	12	
500	41	1	11	4	41	1	25	—	—	41	1	38	32	41	2	12	28	41	2	26	24	
600	49	2	13	12	49	2	30	—	—	49	3	6	24	49	3	23	12	50	—	—	—	

Ells Wide	481 Ells Long.				482 Ells Long.				483 Ells Long.				484 Ells Long.				485 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	13	13	—	—	13	14	—	—	13	15	—	—	13	16	—	—	13	17
2	—	—	26	26	—	—	26	28	—	—	26	30	—	—	26	32	—	—	26	34
3	—	1	—	3	—	1	—	6	—	1	—	9	—	1	—	12	—	1	—	15
4	—	1	13	16	—	1	13	20	—	1	13	24	—	1	13	28	—	1	13	32
5	—	1	26	29	—	1	26	34	—	1	27	3	—	1	27	8	—	1	27	13
6	—	2	—	6	—	2	—	12	—	2	—	18	—	2	—	24	—	2	—	30
7	—	2	13	19	—	2	13	26	—	2	13	33	—	2	14	4	—	2	14	11
8	—	2	26	32	—	2	27	4	—	2	27	12	—	2	27	20	—	2	27	28
9	—	3	—	9	—	3	—	18	—	3	—	27	—	3	1	—	—	3	1	9
10	—	3	13	22	—	3	13	32	—	3	14	6	—	3	14	16	—	3	14	26
20	1	2	27	8	1	2	27	28	1	2	28	12	1	2	28	32	1	2	29	16
30	2	2	—	30	2	2	1	24	2	2	2	18	2	2	3	12	2	2	4	6
40	3	1	14	16	3	1	15	20	3	1	16	24	3	1	17	28	3	1	18	32
50	4	—	28	2	4	—	29	16	4	—	30	30	4	—	32	8	4	—	33	22
60	5	—	1	24	5	—	3	12	5	—	5	—	5	—	6	24	5	—	8	12
70	5	3	15	10	5	3	17	8	5	3	19	6	5	3	21	4	5	3	23	2
80	6	2	28	32	6	2	31	4	6	2	33	12	6	2	35	20	6	2	37	28
90	7	2	2	18	7	2	5	—	7	2	7	18	7	2	10	—	7	2	12	18
100	8	1	16	4	8	1	18	32	8	1	21	24	8	1	24	16	8	1	27	8
200	16	2	32	8	16	2	37	28	16	3	3	12	16	3	8	32	16	3	14	16
300	25	—	8	12	25	—	16	24	25	—	25	—	25	—	33	12	25	1	1	24
400	33	1	24	16	33	1	35	20	33	2	6	24	33	2	17	28	33	2	28	32
500	41	3	—	20	41	3	14	16	41	3	28	12	42	—	2	34	42	—	16	4
600	50	1	16	24	50	—	33	12	50	1	10	—	50	1	26	24	50	2	3	12

No. Wide.	486 Ells Long.				487 Ells Long.				488 Ells Long.				489 Ells Long.				490 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	13	18	—	—	13	19	—	—	13	20	—	—	13	21	—	—	13	22
2	—	—	27	—	—	—	27	2	—	—	27	4	—	—	27	6	—	—	27	8
3	—	1	—	18	—	1	—	21	—	1	—	24	—	1	—	27	—	1	—	30
4	—	1	14	—	—	1	14	4	—	1	14	8	—	1	14	12	—	1	14	16
5	—	1	27	18	—	1	27	23	—	1	27	28	—	1	27	33	—	1	28	2
6	—	2	1	—	—	2	1	6	—	2	1	12	—	2	1	18	—	2	1	24
7	—	2	14	18	—	2	14	25	—	2	14	32	—	2	15	3	—	2	15	10
8	—	2	28	—	—	2	28	8	—	2	28	16	—	2	28	24	—	2	28	32
9	—	3	1	18	—	3	1	27	—	3	2	—	—	3	2	9	—	3	2	18
10	—	3	15	—	—	3	15	10	—	3	15	20	—	3	15	30	—	3	16	4
20	1	2	30	—	1	2	30	20	1	2	31	4	1	2	31	24	1	2	32	8
30	2	2	5	—	2	2	5	30	2	2	6	24	2	2	7	18	2	2	8	12
40	3	1	20	—	3	1	21	4	3	1	22	8	3	1	23	12	3	1	24	16
50	4	—	35	—	4	—	36	14	4	—	37	28	4	—	39	6	4	1	—	20
60	5	—	10	—	5	—	11	24	5	—	13	12	5	—	15	—	5	—	16	24
70	5	3	25	—	5	3	26	34	5	3	28	32	5	3	30	30	5	3	32	28
80	6	3	—	—	6	3	2	8	6	3	4	16	6	3	6	24	6	3	8	32
90	7	2	15	—	7	2	17	18	7	2	20	—	7	2	22	18	7	2	25	—
100	8	1	30	—	8	1	32	28	8	1	35	20	8	1	38	12	8	2	1	4
200	16	3	20	—	16	3	25	20	16	3	31	4	16	3	36	24	17	—	2	8
300	25	1	10	—	25	1	18	12	25	1	26	24	25	1	35	—	25	2	3	12
400	33	3	—	—	33	3	11	4	33	3	22	8	33	3	33	12	34	—	4	16
500	42	—	30	—	42	1	3	32	42	1	17	28	42	1	31	24	42	2	5	20
600	50	2	20	—	50	2	26	24	50	3	13	12	50	3	30	—	51	—	6	24

Ells Wide	491 Ells Long.				492 Ells Long.				493 Ells Long.				494 Ells Long.				495 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	13	23	—	—	13	24	—	—	13	25	—	—	13	26	—	—	13	27
2	—	—	27	10	—	—	27	12	—	—	27	14	—	—	27	16	—	—	27	18
3	—	1	—	33	—	1	1	—	—	1	1	3	—	1	1	6	—	1	1	9
4	—	1	14	20	—	1	14	24	—	1	14	28	—	1	14	32	—	1	15	—
5	—	1	28	7	—	1	28	12	—	1	28	17	—	1	28	22	—	1	28	27
6	—	2	1	30	—	2	2	—	—	2	2	6	—	2	2	12	—	2	2	18
7	—	2	15	17	—	2	15	24	—	2	15	31	—	2	16	2	—	2	16	9
8	—	2	29	4	—	2	29	12	—	2	29	20	—	2	29	28	—	2	30	—
9	—	3	2	27	—	3	3	—	—	3	3	9	—	3	3	18	—	3	3	27
10	—	3	16	14	—	3	16	24	—	3	16	34	—	3	17	8	—	3	17	18
20	1	2	32	28	1	2	33	12	1	2	33	32	1	2	34	16	1	2	35	—
30	2	2	9	6	2	2	10	—	2	2	10	30	2	2	11	24	2	2	12	18
40	3	1	25	20	3	1	26	24	3	1	27	28	3	1	28	32	3	1	30	—
50	4	1	1	34	4	1	3	12	4	1	4	26	4	1	6	4	4	1	7	18
60	5	—	18	12	5	—	20	—	5	—	21	24	5	—	23	12	5	—	25	—
70	5	3	34	26	5	3	36	24	5	3	38	22	6	—	—	20	6	—	2	18
80	6	3	11	4	6	3	13	12	6	3	15	20	6	3	17	28	6	3	20	—
90	7	2	27	18	7	2	30	—	7	2	32	18	7	2	35	—	7	2	37	18
100	8	2	3	32	8	2	6	24	8	2	9	16	8	2	12	8	8	2	15	—
200	17	—	7	28	17	—	13	12	17	—	18	32	17	—	24	16	17	—	30	—
300	25	2	11	24	25	2	20	—	25	2	28	12	25	2	36	24	25	3	5	—
400	34	—	15	20	34	—	26	24	34	—	37	28	34	1	8	32	34	1	20	—
500	42	2	19	16	42	2	33	12	42	3	7	8	42	3	21	4	42	3	35	—
600	51	—	23	12	51	1	—	—	51	1	16	24	51	1	33	12	51	2	10	—

Ells Wide.	496 Ells Long.				497 Ells Long.				498 Ells Long.				499 Ells Long.				500 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	13	28	—	—	13	29	—	—	13	30	—	—	13	31	—	—	13	32
2	—	—	27	20	—	—	27	22	—	—	27	24	—	—	27	26	—	—	27	28
3	—	1	1	12	—	1	1	15	—	1	1	18	—	1	1	21	—	1	1	24
4	—	1	15	4	—	1	15	8	—	1	15	12	—	1	15	16	—	1	15	20
5	—	1	28	32	—	1	29	1	—	1	29	6	—	1	29	11	—	1	29	16
6	—	2	2	24	—	2	2	30	—	2	3	—	—	2	3	6	—	2	3	12
7	—	2	16	16	—	2	16	23	—	2	16	30	—	2	17	1	—	2	17	8
8	—	2	30	8	—	2	30	16	—	2	30	24	—	2	30	32	—	2	31	4
9	—	3	4	—	—	3	4	9	—	3	4	18	—	3	4	27	—	3	5	—
10	—	3	17	28	—	3	18	2	—	3	18	12	—	3	18	22	—	3	18	32
20	1	2	35	20	1	2	36	4	1	2	36	24	1	2	37	8	1	2	37	28
30	2	2	13	12	2	2	14	6	2	2	15	—	2	2	15	30	2	2	16	24
40	3	1	31	4	3	1	32	8	3	1	33	12	3	1	34	16	3	1	35	20
50	4	1	8	32	4	1	10	10	4	1	11	24	4	1	13	2	4	1	14	16
60	5	—	26	24	5	—	28	12	5	—	30	—	5	—	31	24	5	—	33	12
70	6	—	4	16	6	—	6	14	6	—	8	12	6	—	10	10	6	—	12	8
80	6	3	22	8	6	3	24	16	6	3	26	24	6	3	28	32	6	3	31	4
90	7	3	—	—	7	3	2	18	7	3	5	—	7	3	7	18	7	3	10	—
100	8	2	17	28	8	2	20	20	8	2	23	12	8	2	26	4	8	2	28	32
200	17	—	35	20	17	1	1	4	17	1	6	24	17	1	12	8	17	1	17	28
300	25	3	13	12	25	3	21	24	25	3	30	—	25	3	38	12	26	—	6	24
400	34	1	31	4	34	2	2	8	34	2	13	12	34	2	24	16	34	2	35	20
500	43	—	8	32	43	—	22	28	43	—	36	24	43	1	10	20	43	1	24	16
600	51	2	26	24	51	3	3	12	51	3	20	—	51	3	36	24	52	—	13	12

From 501 to 505 Ells Long.

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Ells Wide.	501				502				503				504				505				
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.				
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	
1	—	—	13	33	—	—	13	34	—	—	13	35	—	—	14	—	—	14	1		
2	—	—	27	30	—	—	27	32	—	—	27	34	—	—	28	—	—	28	2		
3	—	1	1	27	—	1	1	30	—	1	1	33	—	1	2	—	—	1	2	3	
4	—	1	15	24	—	1	15	28	—	1	15	32	—	1	16	—	—	1	16	4	
5	—	1	29	21	—	1	29	26	—	1	29	31	—	1	30	—	—	1	30	5	
6	—	2	3	18	—	2	3	24	—	2	3	30	—	2	4	—	—	2	4	6	
7	—	2	17	15	—	2	17	22	—	2	17	29	—	2	18	—	—	2	18	7	
8	—	2	31	12	—	2	31	20	—	2	31	28	—	2	32	—	—	2	32	8	
9	—	3	5	9	—	3	5	18	—	3	5	27	—	3	6	—	—	3	6	9	
10	—	3	19	6	—	3	19	16	—	3	19	26	—	3	20	—	—	3	20	10	
20	1	2	38	12	1	2	38	32	1	2	39	16	1	3	—	—	1	3	—	20	
30	2	2	17	18	2	2	18	12	2	2	19	6	2	2	20	—	—	2	2	20	30
40	3	1	36	24	3	1	37	28	3	1	38	32	3	2	—	—	3	2	1	4	
50	4	1	15	30	4	1	17	8	4	1	18	22	4	1	20	—	—	4	1	21	14
60	5	—	35	—	5	—	36	24	5	—	38	12	5	1	—	—	5	1	1	24	
70	6	—	14	6	6	—	16	4	6	—	18	2	6	—	20	—	6	—	21	34	
80	6	3	33	12	6	—	35	20	6	—	37	28	7	—	—	—	7	—	2	8	
90	7	3	12	18	7	3	15	—	7	3	17	18	7	3	20	—	—	7	3	22	18
100	8	2	31	24	8	2	34	16	8	2	37	8	8	3	—	—	8	3	2	28	
200	17	1	23	12	17	1	28	32	17	1	34	16	17	2	—	—	17	2	5	20	
300	26	—	15	—	26	—	23	12	26	—	31	24	26	1	—	—	26	1	8	12	
400	34	3	6	24	34	3	17	28	34	3	28	32	35	—	—	—	35	—	11	4	
500	43	1	38	12	43	2	12	8	43	2	26	4	43	3	—	—	43	3	13	32	
600	52	—	30	—	52	1	6	24	52	1	23	12	52	2	—	—	52	2	16	24	

Ells Wide.	506 Ells Long.				507 Ells Long.				508 Ells Long.				509 Ells Long.				510 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	2	—	—	14	3	—	—	14	4	—	—	14	5	—	—	14	6
2	—	—	28	4	—	—	28	6	—	—	28	8	—	—	28	10	—	—	28	12
3	—	1	2	6	—	1	2	9	—	1	2	12	—	1	2	15	—	1	2	18
4	—	1	16	8	—	1	16	12	—	1	16	16	—	1	16	20	—	1	16	24
5	—	1	30	10	—	1	30	15	—	1	30	20	—	1	30	25	—	1	30	30
6	—	2	4	12	—	2	4	18	—	2	4	24	—	2	4	30	—	2	5	—
7	—	2	18	14	—	2	18	21	—	2	18	28	—	2	18	35	—	2	19	6
8	—	2	32	16	—	2	32	24	—	2	32	32	—	2	33	4	—	2	33	12
9	—	3	6	18	—	3	6	27	—	3	7	—	—	3	7	9	—	3	7	18
10	—	3	20	20	—	3	20	30	—	3	21	4	—	3	21	14	—	3	21	24
20	1	3	1	4	1	3	1	24	1	3	2	8	1	3	2	28	1	3	3	12
30	2	2	21	24	2	2	22	18	2	2	23	12	2	2	24	6	2	2	25	—
40	3	2	2	8	3	2	3	12	3	2	4	16	3	2	5	20	3	2	6	24
50	4	1	22	28	4	1	24	6	4	1	25	20	4	1	26	34	4	1	28	12
60	5	1	3	12	5	1	5	—	5	1	6	24	5	1	8	12	5	1	10	—
70	6	—	23	32	6	—	25	30	6	—	27	28	6	—	29	26	6	—	31	24
80	7	—	4	16	7	—	6	24	7	—	8	32	7	—	11	4	7	—	13	12
90	7	3	25	—	7	3	27	18	7	3	30	—	7	3	32	18	7	3	35	—
100	8	3	5	20	8	3	8	12	8	3	11	4	8	3	13	32	8	3	16	24
200	17	2	11	4	17	2	16	24	17	2	22	8	17	2	27	28	17	2	33	12
300	26	1	16	24	26	1	25	—	26	1	33	12	26	2	1	24	26	2	10	—
400	35	—	22	8	35	—	33	12	35	1	4	16	35	1	15	20	35	1	26	24
500	43	3	27	28	44	—	1	24	44	—	15	20	44	—	29	16	44	1	3	12
600	52	2	33	12	52	3	10	—	52	3	26	24	53	—	3	12	53	—	20	—

Ells Wide.	511 Ells Long.				512 Ells Long.				513 Ells Long.				514 Ells Long.				515 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	7	—	—	14	8	—	—	14	9	—	—	14	10	—	—	14	11
2	—	—	28	14	—	—	28	16	—	—	28	18	—	—	28	20	—	—	28	22
3	—	1	2	21	—	1	2	24	—	1	2	27	—	1	2	30	—	1	2	33
4	—	1	16	28	—	1	16	32	—	1	17	—	—	1	17	4	—	1	17	8
5	—	1	30	35	—	1	31	4	—	1	31	9	—	1	31	14	—	1	31	19
6	—	2	5	6	—	2	5	12	—	2	5	18	—	2	5	24	—	2	5	30
7	—	2	19	13	—	2	19	20	—	2	19	27	—	2	19	34	—	2	20	5
8	—	2	33	20	—	2	33	28	—	2	34	—	—	2	34	8	—	2	34	16
9	—	3	7	27	—	3	8	—	—	3	8	9	—	3	8	18	—	3	8	27
10	—	3	21	34	—	3	22	8	—	3	22	18	—	3	22	28	—	3	23	2
20	1	3	3	32	1	3	4	16	1	3	5	—	1	3	5	20	1	3	6	4
30	2	2	25	30	2	2	26	24	2	2	27	18	2	2	28	12	2	2	29	6
40	3	2	7	28	3	2	8	32	3	2	10	—	3	2	11	4	3	2	12	8
50	4	1	29	26	4	1	31	4	4	1	32	18	4	1	33	32	4	1	35	10
60	5	1	11	24	5	1	13	12	5	1	15	—	5	1	16	24	5	1	18	12
70	6	—	33	22	6	—	35	20	6	—	37	18	6	—	39	16	6	1	1	14
80	7	—	15	20	7	—	17	28	7	—	20	—	7	—	22	8	7	—	24	16
90	7	3	37	18	8	—	—	—	8	—	2	18	8	—	5	—	8	—	7	18
100	8	3	19	16	8	3	22	8	8	3	25	—	8	3	27	28	8	3	30	20
200	17	2	38	32	17	3	4	16	17	3	10	—	17	3	15	20	17	3	21	4
300	26	2	18	12	26	2	26	24	26	2	35	—	26	3	3	12	26	3	11	24
400	35	1	37	28	35	2	8	32	35	2	20	—	35	2	31	4	35	3	2	8
500	44	1	17	8	44	1	31	4	44	2	5	—	44	2	18	32	44	2	32	28
600	53	—	36	24	53	1	13	12	53	1	30	—	53	2	6	24	53	2	23	12

Ells Wide.	516 Ells Long.				517 Ells Long.				518 Ells Long.				519 Ells Long.				520 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	12	—	—	14	13	—	—	14	14	—	—	14	15	—	—	14	16
2	—	—	28	24	—	—	28	26	—	—	28	28	—	—	28	30	—	—	28	32
3	—	1	3	—	—	1	3	3	—	1	3	6	—	1	3	9	—	1	3	12
4	—	1	17	12	—	1	17	16	—	1	17	20	—	1	17	24	—	1	17	28
5	—	1	31	24	—	1	31	29	—	1	31	34	—	1	32	3	—	1	32	8
6	—	2	6	—	—	2	6	6	—	2	6	12	—	2	6	18	—	2	6	24
7	—	2	20	12	—	2	20	19	—	2	20	26	—	2	20	33	—	2	21	4
8	—	2	34	24	—	2	34	32	—	2	35	4	—	2	35	12	—	2	35	20
9	—	3	9	—	—	3	9	9	—	3	9	18	—	3	9	27	—	3	10	—
10	—	3	23	12	—	3	23	22	—	3	23	32	—	3	24	6	—	3	24	16
20	1	3	6	24	1	3	7	8	1	3	7	28	1	3	8	12	1	3	8	32
30	2	2	30	—	2	2	30	30	2	2	31	24	2	2	32	18	2	2	33	12
40	3	2	13	12	3	2	14	16	3	2	15	20	3	2	16	24	3	2	17	28
50	4	1	36	24	4	1	38	2	4	1	39	16	4	2	—	30	4	2	2	8
60	5	1	20	—	5	1	21	24	5	1	23	12	5	1	25	—	5	1	26	24
70	6	1	3	12	6	1	5	10	6	1	7	8	6	1	9	6	6	1	11	4
80	7	—	26	24	7	—	28	32	7	—	31	4	7	—	33	12	7	—	35	20
90	8	—	10	—	8	—	12	18	8	—	15	—	8	—	17	18	8	—	20	—
100	8	3	33	12	8	3	36	4	8	3	38	32	9	—	1	24	9	—	4	16
200	17	3	26	24	17	3	32	8	17	3	37	28	18	—	3	12	18	—	8	32
300	26	3	20	—	26	3	28	12	26	3	36	24	27	—	5	—	27	—	13	12
400	35	3	13	12	35	3	24	16	35	3	35	20	36	—	6	24	36	—	17	28
500	44	3	6	24	44	3	20	20	44	3	34	16	45	—	8	12	45	—	22	8
600	53	3	—	—	53	3	16	24	53	3	33	12	54	—	10	—	54	—	26	24

Ells Wide.	521 Ells Long.				522 Ells Long.				523 Ells Long.				524 Ells Long.				525 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	17	—	—	14	18	—	—	14	19	—	—	14	20	—	—	14	21
2	—	—	28	34	—	—	29	—	—	—	29	2	—	—	29	4	—	—	29	6
3	—	1	3	15	—	1	3	18	—	1	3	21	—	1	3	24	—	1	3	27
4	—	1	17	32	—	1	18	—	—	1	18	4	—	1	18	8	—	1	18	12
5	—	1	32	13	—	1	32	18	—	1	32	23	—	1	32	28	—	1	32	33
6	—	2	6	30	—	2	7	—	—	2	7	6	—	2	7	12	—	2	7	18
7	—	2	21	11	—	2	21	18	—	2	21	25	—	2	21	32	—	2	22	3
8	—	2	35	28	—	2	36	—	—	2	36	8	—	2	36	16	—	2	36	24
9	—	3	10	9	—	3	10	18	—	3	10	27	—	3	11	—	—	3	11	9
10	—	3	24	26	—	3	25	—	—	3	25	10	—	3	25	20	—	3	25	30
20	1	3	9	16	1	3	10	—	1	3	10	20	1	3	11	4	1	3	11	24
30	2	2	34	6	2	2	35	—	2	2	35	30	2	2	36	24	2	2	37	18
40	3	2	18	32	3	2	20	—	3	2	21	4	3	2	22	8	3	2	23	12
50	4	2	3	22	4	2	5	—	4	2	6	14	4	2	7	28	4	2	9	6
60	5	1	28	12	5	1	30	—	5	1	31	24	5	1	33	12	5	1	35	—
70	6	1	13	2	6	1	15	—	6	1	16	34	6	1	18	32	6	1	20	30
80	7	—	37	28	7	1	—	—	7	1	2	8	7	1	4	16	7	1	6	24
90	8	—	22	18	8	—	25	—	8	—	27	18	8	—	30	—	8	—	32	18
100	9	—	7	8	9	—	10	—	9	—	12	28	9	—	15	20	9	—	18	12
200	18	—	14	16	18	—	20	—	18	—	25	20	18	—	31	4	18	—	36	24
300	27	—	21	24	27	—	30	—	27	—	38	12	27	1	6	24	27	1	15	—
400	36	—	28	32	36	1	—	—	36	1	11	4	36	1	22	8	36	1	33	12
500	45	—	36	44	45	1	10	—	45	1	23	32	45	1	37	28	45	2	11	24
600	54	1	3	12	54	1	20	—	54	1	56	24	54	2	13	12	54	2	30	—

Ells Wide.	526 Ells Long.				527 Ells Long.				528 Ells Long.				529 Ells Long.				530 Ells Long.					
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.		
1	—	—	14	22	—	—	14	23	—	—	14	24	—	—	14	25	—	—	14	26		
2	—	—	29	8	—	—	29	10	—	—	29	12	—	—	29	14	—	—	39	16		
3	—	1	3	30	—	1	3	33	—	1	4	—	—	1	4	3	—	—	1	4	6	
4	—	1	18	16	—	1	18	20	—	1	18	24	—	—	1	18	28	—	—	1	18	32
5	—	1	33	2	—	1	33	7	—	1	33	12	—	—	1	33	17	—	—	1	33	22
6	—	2	7	24	—	2	7	30	—	2	8	—	—	2	8	6	—	—	2	8	12	
7	—	2	22	10	—	2	22	17	—	2	22	24	—	—	2	22	31	—	—	2	23	2
8	—	2	36	32	—	2	37	4	—	2	37	12	—	—	2	37	20	—	—	2	37	28
9	—	3	11	18	—	3	11	27	—	3	12	—	—	3	12	9	—	—	3	12	18	
10	—	3	26	4	—	3	26	14	—	3	26	24	—	—	3	26	34	—	—	3	27	8
20	1	3	12	8	1	3	12	28	1	3	13	12	1	3	12	32	1	3	14	16		
30	2	2	38	12	2	2	39	6	2	3	—	—	2	3	—	30	2	3	1	24		
40	3	2	24	16	3	2	25	20	3	2	26	24	3	2	27	28	3	2	28	32		
50	4	2	10	20	4	2	11	34	4	2	13	12	4	2	14	26	4	2	16	4		
60	5	1	36	24	5	1	38	12	5	2	—	—	5	2	1	24	5	2	3	12		
70	6	1	22	28	6	1	24	26	6	1	26	24	6	1	28	22	6	1	30	20		
80	7	1	8	32	7	1	11	4	7	1	13	12	7	1	15	20	7	1	17	28		
90	8	—	35	—	8	—	37	18	8	1	—	—	8	1	2	18	8	1	5	—		
100	9	—	21	4	9	—	23	32	9	—	26	24	9	—	29	16	9	—	32	8		
200	18	1	2	8	18	1	7	28	18	1	13	12	18	1	18	32	18	1	24	16		
300	27	1	23	12	27	1	31	24	27	2	—	—	27	2	8	12	27	2	16	24		
400	36	2	4	16	36	2	15	20	36	2	26	24	36	2	37	28	36	3	8	32		
500	45	2	25	20	45	2	39	16	45	3	13	12	45	3	27	8	46	—	1	4		
600	54	3	6	24	54	3	23	12	55	—	—	—	55	—	16	24	55	—	33	12		

Ells Wide.	531 Ells Long.				532 Ells Long.				533 Ells Long.				534 Ells Long.				535 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	27	—	—	14	28	—	—	14	29	—	—	14	30	—	—	14	31
2	—	—	29	18	—	—	29	20	—	—	29	22	—	—	29	24	—	—	29	26
3	—	1	4	9	—	1	4	12	—	1	4	15	—	1	4	18	—	1	4	21
4	—	1	19	—	—	1	19	4	—	1	19	8	—	1	19	12	—	1	19	16
5	—	1	33	27	—	1	33	32	—	1	34	1	—	1	34	6	—	1	34	11
6	—	2	8	18	—	2	8	24	—	2	8	30	—	2	9	—	—	2	9	6
7	—	2	23	9	—	2	23	16	—	2	23	23	—	2	23	30	—	2	24	1
8	—	2	38	—	—	2	38	8	—	2	38	16	—	2	38	24	—	2	38	32
9	—	3	12	27	—	3	13	—	—	3	13	9	—	3	13	18	—	3	13	27
10	—	3	27	18	—	3	27	28	—	3	28	2	—	3	28	12	—	3	28	22
20	1	3	15	—	1	3	15	20	1	3	16	4	1	3	16	24	1	3	17	8
30	2	3	2	18	2	3	3	12	2	3	4	6	2	3	5	—	2	3	5	30
40	3	2	30	—	3	2	31	4	3	2	32	8	3	2	33	12	3	2	34	16
50	4	2	17	18	4	2	18	32	4	2	20	10	4	2	21	24	4	2	23	2
60	5	2	5	—	5	2	6	24	5	2	8	12	5	2	10	—	5	2	11	24
70	6	1	32	18	6	1	34	16	6	1	36	14	6	1	38	12	6	2	—	10
80	7	1	20	—	7	1	22	8	7	1	24	16	7	1	26	24	7	1	28	32
90	8	1	7	18	8	1	10	—	8	1	12	18	8	1	15	—	8	1	17	18
100	9	—	35	—	9	—	37	28	9	1	—	20	9	1	3	12	9	1	6	4
200	18	1	30	—	18	1	35	20	18	2	1	4	18	2	6	24	18	2	12	8
300	27	2	25	—	27	2	33	12	27	3	1	24	27	3	10	—	27	3	18	12
400	36	3	20	—	36	3	31	4	37	—	2	8	37	—	13	12	37	—	24	16
500	46	—	15	—	46	—	28	32	46	1	2	28	46	1	16	24	46	1	30	20
600	55	1	10	—	55	1	26	24	55	2	3	12	55	2	20	—	55	2	36	24

Ells Wide.	536				537				538				539				540			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	14	32	—	—	14	33	—	—	14	34	—	—	14	35	—	—	15	—
2	—	—	29	28	—	—	29	30	—	—	29	32	—	—	29	34	—	—	30	—
3	—	1	4	24	—	1	4	27	—	1	4	30	—	1	4	33	—	1	5	—
4	—	1	19	20	—	1	19	24	—	1	19	28	—	1	19	32	—	1	20	—
5	—	1	34	16	—	1	34	21	—	1	34	26	—	1	34	31	—	1	35	—
6	—	2	9	12	—	2	9	18	—	2	9	24	—	2	9	30	—	2	10	—
7	—	2	24	8	—	2	24	15	—	2	24	22	—	2	24	29	—	2	25	—
8	—	2	39	4	—	2	39	12	—	2	39	20	—	2	39	28	—	3	—	—
9	—	3	14	—	—	3	14	9	—	3	14	18	—	3	14	27	—	3	15	—
10	—	3	28	32	—	3	29	6	—	3	29	16	—	3	29	26	—	3	30	—
20	1	3	17	28	1	3	18	12	1	3	18	32	1	3	19	16	1	3	20	—
30	2	3	6	24	2	3	7	18	2	3	8	12	2	3	9	6	2	3	10	—
40	3	2	35	20	3	2	36	24	3	2	37	28	3	2	38	32	3	3	—	—
50	4	2	24	16	4	2	25	30	4	2	27	8	4	2	28	22	4	2	30	—
60	5	2	13	12	5	2	15	—	5	2	16	24	5	2	18	12	5	2	20	—
70	6	2	2	8	6	2	4	6	6	2	6	4	6	2	8	2	6	2	10	—
80	7	1	31	4	7	1	33	12	7	1	35	20	7	1	37	28	7	2	—	—
90	8	1	20	—	8	1	22	18	8	1	25	—	8	1	27	18	8	1	30	—
100	9	1	8	32	9	1	11	24	9	1	14	16	9	1	17	8	9	1	20	—
200	18	2	17	28	18	2	23	12	18	2	28	32	18	2	34	16	18	3	—	—
300	27	3	26	24	27	3	35	—	28	—	3	12	28	—	11	24	28	—	20	—
400	37	—	35	20	37	1	6	24	37	1	17	28	37	1	28	32	37	2	—	—
500	46	2	4	16	46	2	18	12	46	2	32	8	46	3	6	4	46	3	20	—
600	55	3	13	12	55	3	30	—	56	—	6	24	56	—	23	12	56	1	—	—

Ells Wide	541 Ells Long.				542 Ells Long.				543 Ells Long.				544 Ells Long.				545 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	1	—	—	15	2	—	—	15	3	—	—	15	4	—	—	15	5
2	—	—	30	2	—	—	30	4	—	—	30	6	—	—	30	8	—	—	30	10
3	—	1	5	3	—	1	5	6	—	1	5	9	—	1	5	12	—	1	5	15
4	—	1	20	4	—	1	20	8	—	1	20	12	—	1	20	16	—	1	20	20
5	—	1	35	5	—	1	35	10	—	1	35	15	—	1	35	20	—	1	35	25
6	—	2	10	6	—	2	10	12	—	2	10	18	—	2	10	24	—	2	10	30
7	—	2	25	7	—	2	25	14	—	2	25	21	—	2	25	28	—	2	25	35
8	—	3	—	8	—	3	—	16	—	3	—	24	—	3	—	32	—	3	1	4
9	—	3	15	9	—	3	15	18	—	3	15	27	—	3	16	—	—	3	16	9
10	—	3	30	10	—	3	30	20	—	3	30	30	—	3	31	4	—	3	31	14
20	1	3	20	20	1	3	21	4	1	3	21	24	1	3	22	8	1	3	22	28
30	2	3	10	30	2	3	11	24	2	3	12	18	2	3	13	12	2	3	14	6
40	3	3	1	4	3	3	2	8	3	3	3	12	3	3	4	16	3	3	5	20
50	4	2	31	14	4	2	32	28	4	2	34	6	4	2	35	20	4	2	36	34
60	5	2	21	24	5	2	23	12	5	2	25	—	5	2	26	24	5	2	28	12
70	6	2	11	34	6	2	13	32	6	2	15	30	6	2	17	28	6	2	19	26
80	7	2	2	8	7	2	4	16	7	2	6	24	7	2	8	32	7	2	11	4
90	8	1	32	18	8	1	35	—	8	1	37	18	8	2	—	—	8	2	2	18
100	9	1	22	28	9	1	25	20	9	1	28	12	9	1	31	4	9	1	33	32
200	18	3	5	20	18	3	11	4	18	3	16	24	18	3	22	8	18	3	27	28
300	28	—	28	12	28	—	36	24	28	1	5	—	28	1	13	12	28	1	21	24
400	37	2	11	4	37	2	22	8	37	2	33	12	37	3	4	16	37	3	15	20
500	46	3	33	32	47	—	7	28	47	—	21	24	47	—	35	20	47	1	9	16
600	56	1	16	24	56	1	33	12	56	2	10	—	56	2	26	24	56	3	3	12

Ells Wide.	546				547				548				549				550			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	6	—	—	15	7	—	—	15	8	—	—	15	9	—	—	15	10
2	—	—	30	12	—	—	30	14	—	—	30	16	—	—	30	18	—	—	30	20
3	—	1	5	18	—	1	5	21	—	1	5	24	—	1	5	27	—	1	5	30
4	—	1	20	24	—	1	20	28	—	1	20	32	—	1	21	—	—	1	21	4
5	—	1	35	30	—	1	35	35	—	1	36	4	—	1	36	9	—	1	36	14
6	—	2	11	—	—	2	11	6	—	2	11	12	—	2	11	18	—	2	11	24
7	—	2	26	6	—	2	26	13	—	2	26	20	—	2	26	27	—	2	26	34
8	—	3	1	12	—	3	1	20	—	3	1	28	—	3	2	—	—	3	2	8
9	—	3	16	18	—	3	16	27	—	3	17	—	—	3	17	9	—	3	17	18
10	—	3	31	24	—	3	31	34	—	3	32	8	—	3	32	18	—	3	32	28
20	1	3	23	12	1	3	23	32	1	3	24	16	1	3	25	—	1	3	25	20
30	2	3	15	—	2	3	15	30	2	3	16	24	2	3	17	18	2	3	18	12
40	3	3	6	24	3	3	7	28	3	3	8	32	3	3	10	—	3	3	11	4
50	4	2	38	12	4	2	39	26	4	3	1	4	4	3	2	18	4	3	3	32
60	5	2	30	—	5	2	31	24	5	2	33	12	5	2	35	—	5	2	36	24
70	6	2	21	24	6	2	23	22	6	2	25	20	6	2	27	18	6	2	29	16
80	7	2	13	12	7	2	15	20	7	2	17	28	7	2	20	—	7	2	22	8
90	8	2	5	—	8	2	7	18	8	2	10	—	8	2	12	18	8	2	15	—
100	9	1	36	24	9	1	39	16	9	2	2	8	9	2	5	—	9	2	7	28
200	18	3	33	12	18	3	38	32	19	—	4	16	19	—	10	—	19	—	15	20
300	28	1	30	—	28	1	38	12	28	2	6	24	28	2	15	—	28	2	23	12
400	37	3	26	24	37	3	37	28	38	—	8	32	38	—	20	—	38	—	31	4
500	47	1	23	12	47	1	37	8	47	2	11	4	47	2	25	—	47	2	38	32
600	56	3	20	—	56	3	36	24	57	—	13	12	57	—	30	—	57	1	6	24

Ells Wide.	551 Ells Long.				552 Ells Long.				553 Ells Long.				554 Ells Long.				555 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	11	—	—	15	12	—	—	15	13	—	—	15	14	—	—	15	15
2	—	—	30	22	—	—	30	24	—	—	30	26	—	—	30	28	—	—	30	30
3	—	1	5	33	—	1	6	—	—	1	6	3	—	1	6	6	—	1	6	9
4	—	1	21	8	—	1	21	12	—	1	21	16	—	1	21	20	—	1	21	24
5	—	1	36	19	—	1	36	24	—	1	36	29	—	1	36	34	—	1	37	3
6	—	2	11	30	—	2	12	—	—	2	12	6	—	2	12	12	—	2	12	18
7	—	2	27	5	—	2	27	12	—	2	27	19	—	2	27	26	—	2	27	33
8	—	3	2	16	—	3	2	24	—	3	2	32	—	3	3	4	—	3	3	12
9	—	3	17	27	—	3	18	—	—	3	18	9	—	3	18	18	—	3	18	27
10	—	3	33	2	—	3	33	12	—	3	33	22	—	3	33	32	—	3	34	6
20	1	3	26	4	1	3	26	24	1	3	27	8	1	3	27	28	1	3	28	12
30	2	3	19	6	2	3	20	—	2	3	20	30	2	3	21	24	2	3	22	18
40	3	3	12	8	3	3	13	12	3	3	14	16	3	3	15	20	3	3	16	24
50	4	3	5	10	4	3	6	24	4	3	8	2	4	3	9	16	4	3	10	30
60	5	2	38	12	5	3	—	—	5	3	1	24	5	3	3	12	5	3	5	—
70	6	2	31	14	6	2	33	12	6	2	35	10	6	2	37	8	6	2	39	6
80	7	2	24	16	7	2	26	24	7	2	28	32	7	2	31	4	7	2	33	12
90	8	2	17	18	8	2	20	—	8	2	22	18	8	2	25	—	8	2	27	18
100	9	2	10	20	9	2	13	12	9	2	16	4	9	2	18	32	9	2	21	24
200	19	—	21	4	19	—	26	24	19	—	32	8	19	—	37	28	19	1	3	12
300	28	2	31	24	28	3	—	—	28	3	8	12	28	3	16	24	28	3	25	—
400	38	1	2	8	38	1	13	12	38	1	24	16	38	1	35	20	38	2	6	24
500	47	3	12	28	47	3	26	24	48	—	—	20	48	—	14	16	48	—	28	12
600	57	1	23	12	57	2	—	—	57	2	16	24	57	2	33	12	57	3	10	—

Ells Wide.	556 Ells Long.				557 Ells Long.				558 Ells Long.				559 Ells Long.				560 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	16	—	—	15	17	—	—	15	18	—	—	15	19	—	—	15	20
2	—	—	30	32	—	—	30	34	—	—	31	—	—	—	31	2	—	—	31	4
3	—	1	6	12	—	1	6	15	—	1	6	18	—	1	6	21	—	1	6	24
4	—	1	21	28	—	1	21	32	—	1	22	—	—	1	22	4	—	1	22	8
5	—	1	37	8	—	1	37	13	—	1	37	18	—	1	37	23	—	1	37	28
6	—	2	12	24	—	2	12	30	—	2	13	—	—	2	13	6	—	2	13	12
7	—	2	28	4	—	2	28	11	—	2	28	18	—	2	28	25	—	2	28	32
8	—	3	3	20	—	3	3	28	—	3	4	—	—	3	4	8	—	3	4	16
9	—	3	19	—	—	3	19	9	—	3	19	18	—	3	19	27	—	3	20	—
10	—	3	34	16	—	3	34	26	—	3	35	—	—	3	35	10	—	3	35	20
20	1	3	28	32	1	3	29	16	1	3	30	—	1	3	30	20	1	3	31	4
30	2	3	23	12	2	3	24	6	2	3	25	—	2	3	25	30	2	3	26	24
40	3	3	17	23	3	3	18	32	3	3	20	—	3	3	21	4	3	3	22	8
50	4	3	12	8	4	3	13	22	4	3	15	—	4	3	16	14	4	3	17	28
60	5	3	6	24	5	3	8	12	5	3	10	—	5	3	11	24	5	3	13	12
70	6	3	1	4	6	3	3	2	6	3	5	—	6	3	6	34	6	3	8	32
80	7	2	35	20	7	2	37	28	7	3	—	—	7	3	2	8	7	3	4	16
90	8	2	30	—	8	2	32	18	8	2	35	—	8	2	37	18	8	3	—	—
100	9	2	24	16	9	2	27	8	9	2	30	—	9	2	32	28	9	2	35	20
200	19	1	8	32	19	1	14	16	19	1	20	—	19	1	25	20	19	1	31	4
300	28	3	33	12	29	—	1	24	29	—	10	—	29	—	18	12	29	—	26	24
400	38	2	17	28	38	2	28	32	38	3	—	—	38	3	11	4	38	3	22	8
500	48	1	2	8	48	1	16	4	48	1	30	—	48	2	3	32	48	2	17	28
600	57	3	26	24	58	—	3	12	58	—	20	—	58	—	36	24	58	1	13	12

Ells Wide.	561 Ells Long.				562 Ells Long.				563 Ells Long.				564 Ells Long.				565 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	21	—	—	15	22	—	—	15	23	—	—	15	24	—	—	15	25
2	—	—	31	6	—	—	31	8	—	—	31	10	—	—	31	12	—	—	31	14
3	—	1	6	27	—	1	6	30	—	1	6	33	—	1	7	—	—	1	7	3
4	—	1	22	12	—	1	22	16	—	1	22	20	—	1	22	24	—	1	22	28
5	—	1	37	33	—	1	38	2	—	1	38	7	—	1	38	12	—	1	38	17
6	—	2	13	18	—	2	13	24	—	2	13	30	—	2	14	—	—	2	14	6
7	—	2	29	3	—	2	29	10	—	2	29	17	—	2	29	24	—	2	29	31
8	—	3	4	24	—	3	4	32	—	3	5	4	—	3	5	12	—	3	5	20
9	—	3	20	9	—	3	20	18	—	3	20	27	—	3	21	—	—	3	21	9
10	—	3	35	30	—	3	36	4	—	3	36	14	—	3	36	24	—	3	36	34
20	1	3	31	24	1	3	32	8	1	3	32	28	1	3	33	12	1	3	33	32
30	2	3	27	18	2	3	28	12	2	3	29	6	2	3	30	—	2	3	30	30
40	3	3	23	12	3	3	24	16	3	3	25	20	3	3	26	24	3	3	27	28
50	4	3	19	6	4	3	20	20	4	3	21	34	4	3	23	12	4	3	24	26
60	5	3	15	—	5	3	16	24	5	3	18	12	5	3	20	—	5	3	21	24
70	6	3	10	30	6	3	12	28	6	3	14	26	6	3	16	24	6	3	18	22
80	7	3	6	24	7	3	8	32	7	3	11	4	7	3	13	12	7	3	15	20
90	8	3	2	18	8	3	5	—	8	3	7	18	8	3	10	—	8	3	12	18
100	9	2	38	12	9	3	1	4	9	3	3	32	9	3	6	24	9	3	9	16
200	19	1	36	24	19	2	2	8	19	2	7	28	19	2	13	12	19	2	18	32
300	29	—	35	—	29	1	3	12	29	1	11	24	29	1	20	—	29	1	28	12
400	38	3	33	12	39	—	4	16	39	—	15	20	39	—	26	24	39	—	37	28
500	48	2	31	24	48	3	5	20	48	3	19	16	48	3	33	12	49	—	7	8
600	58	1	30	—	58	2	6	24	58	2	23	12	58	3	—	—	58	3	16	24

Ells Wide.	566 Ells Long.				567 Ells Long.				568 Ells Long.				569 Ells Long.				570 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	26	—	—	15	27	—	—	15	28	—	—	15	29	—	—	15	30
2	—	—	31	16	—	—	31	18	—	—	31	20	—	—	31	22	—	—	31	24
3	—	1	7	6	—	1	7	9	—	1	7	12	—	1	7	15	—	1	7	18
4	—	1	22	32	—	1	23	—	—	1	23	4	—	1	23	8	—	1	23	12
5	—	1	38	22	—	1	38	27	—	1	38	32	—	1	39	1	—	1	39	6
6	—	2	14	12	—	2	14	18	—	2	14	24	—	2	14	30	—	2	15	—
7	—	2	30	2	—	2	30	9	—	2	30	16	—	2	30	23	—	2	30	30
8	—	3	5	28	—	3	6	—	—	3	6	8	—	3	6	16	—	3	6	24
9	—	3	21	18	—	3	21	27	—	3	22	—	—	3	22	9	—	3	22	18
10	—	3	37	8	—	3	37	18	—	3	37	28	—	3	38	2	—	3	38	12
20	1	3	34	16	1	3	35	—	1	3	35	20	1	3	36	4	1	3	36	24
30	2	3	31	24	2	3	32	18	2	3	33	12	2	3	34	6	2	3	35	—
40	3	3	28	32	3	3	30	—	3	3	31	4	3	3	32	8	3	3	33	12
50	4	3	26	4	4	3	27	18	4	3	28	32	4	3	30	10	4	3	31	24
60	5	3	23	12	5	3	25	—	5	3	26	24	5	3	28	12	5	3	30	—
70	6	3	20	20	6	3	22	18	6	3	24	16	6	3	26	14	6	3	28	12
80	7	3	17	28	7	3	20	—	7	3	22	8	7	3	24	16	7	3	26	24
90	8	3	15	—	8	3	17	18	8	3	20	—	8	3	22	18	8	3	25	—
100	9	3	12	8	9	3	15	—	9	3	17	28	9	3	20	20	9	3	23	12
200	19	2	24	16	19	2	30	—	19	2	35	20	19	3	1	4	19	3	6	24
300	29	1	36	24	29	2	5	—	29	2	13	12	29	2	21	24	29	2	30	—
400	39	1	8	32	39	1	20	—	39	1	31	4	39	2	2	8	39	2	13	12
500	49	—	21	44	49	—	35	—	49	1	8	32	49	1	22	28	49	1	36	24
600	58	3	33	12	59	—	10	—	59	—	26	24	59	1	3	12	59	1	20	—

Ells Wide.	571 Ells Long.				572 Ells Long.				573 Ells Long.				574 Ells Long.				575 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	15	31	—	—	15	32	—	—	15	33	—	—	15	34	—	—	15	35
2	—	—	31	26	—	—	31	28	—	—	31	30	—	—	31	32	—	—	31	34
3	—	1	7	21	—	1	7	24	—	1	7	27	—	1	7	30	—	1	7	33
4	—	1	23	16	—	1	23	20	—	1	23	24	—	1	23	28	—	1	23	32
5	—	1	39	11	—	1	39	16	—	1	39	21	—	1	39	26	—	1	39	31
6	—	2	15	6	—	2	15	12	—	2	15	18	—	2	15	24	—	2	15	30
7	—	2	31	1	—	2	31	8	—	2	31	15	—	2	31	22	—	2	31	29
8	—	3	6	32	—	3	7	4	—	3	7	12	—	3	7	20	—	3	7	28
9	—	3	22	27	—	3	23	—	—	3	23	9	—	3	23	18	—	3	23	27
10	—	3	38	22	—	3	38	32	—	3	39	6	—	3	39	16	—	3	39	26
20	1	3	37	8	1	3	37	28	1	3	38	12	1	3	38	32	1	3	39	16
30	2	3	35	30	2	3	36	24	2	3	37	18	2	3	38	12	2	3	39	6
40	3	3	34	16	3	3	35	20	3	3	36	24	3	3	37	28	3	3	38	32
50	4	3	33	2	4	3	34	16	4	3	35	30	4	3	37	8	4	3	38	22
60	5	3	31	24	5	3	33	12	5	3	35	—	5	3	36	24	5	3	38	12
70	6	3	30	10	6	3	32	8	6	3	34	6	6	3	36	4	6	3	38	2
80	7	3	28	32	7	3	31	4	7	3	33	12	7	3	35	20	7	3	37	28
90	8	3	27	18	8	3	30	—	8	3	32	18	8	3	35	—	8	3	37	18
100	9	3	26	4	9	3	28	32	9	3	31	24	9	3	34	16	9	3	37	8
200	19	3	12	8	19	3	17	28	19	3	23	12	19	3	28	32	19	3	34	16
300	29	2	38	12	29	3	6	24	29	3	15	—	29	3	23	12	29	3	31	24
400	39	2	24	16	39	2	35	20	39	3	6	24	39	3	17	28	39	3	28	32
500	49	2	10	20	49	2	24	16	49	2	38	12	49	3	12	8	49	3	26	4
600	59	1	36	24	59	2	13	12	59	2	30	—	59	3	6	24	59	3	23	12

Ells Wide.	576 Ells Long.				577 Ells Long.				578 Ells Long.				579 Ells Long.				580 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	16	—	—	—	16	1	—	—	16	2	—	—	16	3	—	—	16	4
2	—	—	32	—	—	—	32	2	—	—	32	4	—	—	32	6	—	—	32	8
3	—	1	8	—	—	1	8	3	—	1	8	6	—	1	8	9	—	1	8	12
4	—	1	24	—	—	1	24	4	—	1	24	8	—	1	24	12	—	1	24	16
5	—	2	—	—	—	2	—	5	—	2	—	10	—	2	—	15	—	2	—	20
6	—	2	16	—	—	2	16	6	—	2	16	12	—	2	16	18	—	2	16	24
7	—	2	32	—	—	2	32	7	—	2	32	14	—	2	32	21	—	2	32	28
8	—	3	8	—	—	3	8	8	—	3	8	16	—	3	8	24	—	3	8	32
9	—	3	24	—	—	3	24	9	—	3	24	18	—	3	24	27	—	3	25	—
10	1	—	—	—	1	—	—	10	1	—	—	20	1	—	—	30	1	—	1	4
20	2	—	—	—	2	—	—	20	2	—	1	4	2	—	1	24	2	—	2	8
30	3	—	—	—	3	—	—	30	3	—	1	24	3	—	2	18	3	—	3	12
40	4	—	—	—	4	—	1	4	4	—	2	8	4	—	3	12	4	—	4	16
50	5	—	—	—	5	—	1	14	5	—	2	28	5	—	4	6	5	—	5	20
60	6	—	—	—	6	—	1	24	6	—	3	12	6	—	5	—	6	—	6	24
70	7	—	—	—	7	—	1	34	7	—	3	32	7	—	5	30	7	—	7	28
80	8	—	—	—	8	—	2	8	8	—	4	16	8	—	6	24	8	—	8	32
90	9	—	—	—	9	—	2	18	9	—	5	—	9	—	7	18	9	—	10	—
100	10	—	—	—	10	—	2	28	10	—	5	20	10	—	8	12	10	—	11	4
200	20	—	—	—	20	—	5	20	20	—	11	4	20	—	16	24	20	—	22	8
300	30	—	—	—	30	—	8	12	30	—	16	24	30	—	25	—	30	—	33	12
400	40	—	—	—	40	—	11	4	40	—	22	8	40	—	33	12	40	1	4	16
500	50	—	—	—	50	—	13	32	50	—	27	28	50	1	1	24	50	1	15	20
600	60	—	—	—	60	—	16	24	60	—	33	12	60	1	10	—	60	1	26	24

Ells Wide.	581 Ells Long.				582 Ells Long.				583 Ells Long.				584 Ells Long.				585 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	16	5	—	—	16	6	—	—	16	7	—	—	16	8	—	—	16	9
2	—	—	32	10	—	—	32	12	—	—	32	14	—	—	32	16	—	—	32	18
3	—	1	8	15	—	1	8	18	—	1	8	21	—	1	8	24	—	1	8	27
4	—	1	24	20	—	1	24	24	—	1	24	28	—	1	24	32	—	1	25	—
5	—	2	—	25	—	2	—	30	—	2	—	35	—	2	1	4	—	2	1	9
6	—	2	16	30	—	2	17	—	—	2	17	6	—	2	17	12	—	2	17	18
7	—	2	32	35	—	2	33	6	—	2	33	13	—	2	33	20	—	2	33	27
8	—	3	9	4	—	3	9	12	—	3	9	20	—	3	9	28	—	3	10	—
9	—	3	25	9	—	3	25	18	—	3	25	27	—	3	26	—	—	3	26	9
10	1	—	1	14	1	—	1	24	1	—	1	34	1	—	2	8	1	—	2	18
20	2	—	2	28	2	—	3	12	2	—	3	32	2	—	4	16	2	—	5	—
30	3	—	4	6	3	—	5	—	3	—	5	30	3	—	6	24	3	—	7	18
40	4	—	5	20	4	—	6	24	4	—	7	28	4	—	8	32	4	—	10	—
50	5	—	6	34	5	—	8	12	5	—	9	26	5	—	11	4	5	—	12	18
60	6	—	8	12	6	—	10	—	6	—	11	24	6	—	13	12	6	—	15	—
70	7	—	9	26	7	—	11	24	7	—	13	22	7	—	15	20	7	—	17	18
80	8	—	11	4	8	—	13	12	8	—	15	20	8	—	17	28	8	—	20	—
90	9	—	12	18	9	—	15	—	9	—	17	18	9	—	20	—	9	—	22	18
100	10	—	13	32	10	—	16	24	10	—	19	16	10	—	22	8	10	—	25	—
200	20	—	27	28	20	—	33	12	20	—	38	32	20	1	4	16	20	1	10	—
300	30	1	1	24	30	1	10	—	30	1	18	12	30	1	26	24	30	1	35	—
400	40	1	15	20	40	1	26	24	40	1	37	28	40	2	8	32	40	2	20	—
500	50	1	29	16	50	2	3	12	50	2	17	8	50	2	31	4	50	3	5	—
600	60	2	3	12	60	2	20	—	60	2	36	24	60	3	13	12	60	3	30	—

Ells Wide.	586				587				588				589				590			
	Ells Long.				Ells Long.				Ells Long.				Ells Long.				Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	16	10	—	—	16	11	—	—	16	12	—	—	16	13	—	—	16	14
2	—	—	32	20	—	—	32	22	—	—	32	24	—	—	32	26	—	—	32	28
3	—	1	8	30	—	1	8	33	—	1	9	—	—	1	9	3	—	1	9	6
4	—	1	25	4	—	1	25	8	—	1	25	12	—	1	25	16	—	1	25	20
5	—	2	1	14	—	2	1	19	—	2	1	24	—	2	1	29	—	2	1	34
6	—	2	17	24	—	2	17	30	—	2	18	—	—	2	18	6	—	2	18	12
7	—	2	33	34	—	2	34	5	—	2	34	12	—	2	34	19	—	2	34	26
8	—	3	10	8	—	3	10	16	—	3	10	24	—	3	10	32	—	3	11	4
9	—	3	26	18	—	3	26	27	—	3	27	—	—	3	27	9	—	3	27	18
10	1	—	2	28	1	—	3	2	1	—	3	12	1	—	3	22	1	—	3	32
20	2	—	5	20	2	—	6	4	2	—	6	24	2	—	7	8	2	—	7	28
30	3	—	8	12	3	—	9	6	3	—	10	—	3	—	10	30	3	—	11	24
40	4	—	11	4	4	—	12	8	4	—	13	12	4	—	14	16	4	—	15	20
50	5	—	13	32	5	—	15	10	5	—	16	24	5	—	18	2	5	—	19	16
60	6	—	16	24	6	—	18	12	6	—	20	—	6	—	21	24	6	—	23	12
70	7	—	19	16	7	—	21	14	7	—	23	12	7	—	25	10	7	—	27	8
80	8	—	22	8	8	—	24	16	8	—	26	24	8	—	28	32	8	—	31	4
90	9	—	25	—	9	—	27	18	9	—	30	—	9	—	32	18	9	—	35	—
100	10	—	27	28	10	—	30	20	10	—	33	12	10	—	36	4	10	—	38	32
200	20	1	15	20	20	1	21	420	20	1	26	24	20	1	32	8	20	1	37	28
300	30	2	3	12	30	2	11	2430	30	2	20	—	30	2	28	12	30	2	36	24
400	40	2	31	4	40	3	2	840	40	3	13	12	40	3	24	16	40	3	35	20
500	50	3	18	32	50	3	32	2851	—	6	24	—	51	—	20	20	51	—	34	16
600	61	—	6	24	61	—	23	1261	—	1	—	—	61	1	16	24	61	1	33	12

Ells Wide.	591 Ells Long.				592 Ells Long.				593 Ells Long.				594 Ells Long.				595 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	16	15	—	—	16	16	—	—	16	17	—	—	16	18	—	—	16	19
2	—	—	32	30	—	—	32	32	—	—	32	34	—	—	33	—	—	—	33	2
3	—	1	9	9	—	1	9	12	—	1	9	15	—	1	9	18	—	1	9	21
4	—	1	25	24	—	1	25	28	—	1	25	32	—	1	26	—	—	1	26	4
5	—	2	2	3	—	2	2	8	—	2	2	13	—	2	2	18	—	2	2	23
6	—	2	18	18	—	2	18	24	—	2	18	30	—	2	19	—	—	2	19	6
7	—	2	34	33	—	2	35	4	—	2	35	11	—	2	35	18	—	2	35	25
8	—	3	11	12	—	3	11	20	—	3	11	28	—	3	12	—	—	3	12	8
9	—	3	27	27	—	3	28	—	—	3	28	9	—	3	28	18	—	3	28	27
10	1	—	4	6	1	—	4	16	1	—	4	26	1	—	5	—	1	—	5	10
20	2	—	8	12	2	—	8	32	2	—	9	16	2	—	10	—	2	—	10	20
30	3	—	12	18	3	—	13	12	3	—	14	6	3	—	15	—	3	—	15	30
40	4	—	16	24	4	—	17	28	4	—	18	32	4	—	20	—	4	—	21	4
50	5	—	20	30	5	—	22	8	5	—	23	22	5	—	25	—	5	—	26	14
60	6	—	25	—	6	—	26	24	6	—	28	12	6	—	30	—	6	—	31	24
70	7	—	29	6	7	—	31	4	7	—	33	2	7	—	35	—	7	—	36	34
80	8	—	33	12	8	—	35	20	8	—	37	28	8	1	—	—	8	1	2	8
90	9	—	37	18	9	1	—	—	9	1	2	18	9	1	5	—	9	1	7	18
100	10	1	1	24	10	1	4	16	10	1	7	8	10	1	10	—	10	1	12	28
200	20	2	3	12	20	2	8	32	20	2	14	16	20	2	20	—	20	2	25	20
300	30	3	5	—	30	3	13	22	30	3	21	24	30	3	30	—	30	3	38	12
400	41	—	6	24	41	—	17	28	41	—	28	32	41	1	—	—	41	1	11	4
500	51	1	8	12	51	1	22	8	51	1	36	4	51	2	10	—	51	2	23	32
600	61	2	10	—	61	2	26	24	61	3	3	12	61	3	20	—	61	3	36	24

Ells Wide.	596 Ells Long.				597 Ells Long.				598 Ells Long.				599 Ells Long.				600 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.	A.	R.	F.	E.
1	—	—	16	20	—	—	16	21	—	—	16	22	—	—	16	23	—	—	16	24
2	—	—	33	4	—	—	33	6	—	—	33	8	—	—	33	10	—	—	33	12
3	—	1	9	24	—	1	9	27	—	1	9	30	—	1	9	33	—	1	10	—
4	—	1	26	8	—	1	26	12	—	1	26	16	—	1	26	20	—	1	26	24
5	—	2	2	28	—	2	2	33	—	2	3	2	—	2	3	7	—	2	3	12
6	—	2	19	12	—	2	19	18	—	2	19	24	—	2	19	30	—	2	20	—
7	—	2	35	32	—	2	36	3	—	2	36	10	—	2	36	17	—	2	36	24
8	—	3	12	16	—	3	12	24	—	3	12	32	—	3	13	4	—	3	13	12
9	—	3	29	—	—	3	29	9	—	3	29	18	—	3	29	27	—	3	30	—
10	1	—	5	20	1	—	5	30	1	—	6	4	1	—	6	14	1	—	6	24
20	2	—	11	4	2	—	11	24	2	—	12	8	2	—	12	28	2	—	13	12
30	3	—	16	24	3	—	17	18	3	—	18	12	3	—	19	6	3	—	20	—
40	4	—	22	8	4	—	23	12	4	—	24	16	4	—	25	20	4	—	26	24
50	5	—	27	28	5	—	29	6	5	—	30	20	5	—	31	34	5	—	33	12
60	6	—	33	12	6	—	35	—	6	—	36	24	6	—	38	12	6	1	—	—
70	7	—	38	32	7	1	—	30	7	1	2	28	7	1	4	26	7	1	6	24
80	8	1	4	16	8	1	6	24	8	1	8	32	8	1	11	4	8	1	13	12
90	9	1	10	—	9	1	12	18	9	1	15	—	9	1	17	18	9	1	20	—
100	10	1	15	20	10	1	18	12	10	1	21	4	10	1	23	32	10	1	26	24
200	20	2	31	4	20	2	36	24	20	3	2	8	20	3	7	28	20	3	13	12
300	31	—	6	24	31	—	15	—	31	—	23	12	31	—	31	24	31	1	—	—
400	41	1	22	8	41	1	33	12	41	2	4	16	41	2	15	20	41	2	26	24
500	51	2	37	28	51	3	11	24	51	3	25	20	51	3	39	16	52	—	13	12
600	62	—	13	12	62	—	30	—	62	1	6	24	62	1	23	12	62	2	—	—

**TABLES for turning SCOTCH Measure into ENGLISH,
and ENGLISH into SCOTCH.**

EXAMPLE, Turn 18 acres, 2 roods, 10 falls, Scotch measure, into English.

		A.	R.	P.	Y.	
Look into the Table, and	{	opposite 10 acres is	12	2	11	12
		opposite 8 acres is	10	—	9	3
		opposite 2 roods is	—	2	20	18
		opposite 10 falls is	—	—	12	18
The amount in English measure.....						23 1 15 21

Example, Turn 23 acres, 1 rood, 13 poles English measure, into Scotch.

		A.	R.	F.	E.	
Look into the Table, and	{	opposite 20 acres is	15	3	25	22
		opposite 3 acres is	2	1	21	30
		opposite 1 rood is	—	—	31	30
		opposite 13 poles is	—	—	10	11
The amount in Scotch measure.....						18 2 9 21

N. B. Carry 1 for every 36 ells in Scotch measure, and 1 for every 50 yards in English measure. Carry for the falls and roods the same as before described in the beginning of the book.

Scotch Measure turned into English.

Scotch Acres	English.				Scotch Roods	English.				Scotch Falls.	English.			
	A.	R.	P.	Y.		A.	R.	P.	Y.		A.	R.	P.	Y.
400	502	3	19	18	3	—	3	3	28	21	—	—	26	14
300	377	—	21	17	2	—	2	20	18	20	—	—	25	6
200	281	1	27	21	1	—	1	10	9	19	—	—	23	28
100	125	2	33	26	Falls.					18	—	—	22	20
90	113	—	22	15	39	—	1	9	8	17	—	—	21	12
80	100	2	11	3	38	—	1	7	21	16	—	—	20	5
70	87	3	39	21	37	—	1	6	14	15	—	—	18	27
60	75	1	28	9	36	—	1	5	7	14	—	—	17	20
50	62	3	16	28	35	—	1	4	—	13	—	—	16	12
40	50	1	5	15	34	—	1	2	22	12	—	—	15	4
30	37	2	34	3	33	—	1	1	15	11	—	—	13	26
20	25	—	22	24	32	—	1	—	9	10	—	—	12	18
10	12	2	11	12	31	—	—	39	1	9	—	—	11	11
9	11	1	10	6	30	—	—	37	23	8	—	—	10	2
8	10	—	9	3	29	—	—	36	16	7	—	—	8	25
7	8	3	7	24	28	—	—	35	8	6	—	—	7	17
6	7	2	6	24	27	—	—	34	—	5	—	—	6	9
5	6	1	5	21	26	—	—	32	22	4	—	—	5	—
4	5	—	4	15	25	—	—	31	15	3	—	—	—	23
3	3	3	3	12	24	—	—	30	7	2	—	—	2	15
2	2	2	2	8	23	—	—	28	29	1	—	—	1	7
1	1	1	1	4	22	—	—	27	21					

English Measure turned into Scotch.

Engl. Acres	Scotch.				Engl. Roods	Scotch.				Engl. Poles	Scotch.			
	A.	R.	F.	E.		A.	R.	F.	E.		A.	R.	F.	E.
400	318	—	13	2	3	—	2	15	16	21	—	—	23	—
300	238	2	22	19	2	—	1	23	23	20	—	—	15	33
200	159	1	15	—	1	—	—	31	30	19	—	—	15	4
100	79	2	2	18						18	—	—	14	11
90	71	2	14	29	89	—	—	31	5	17	—	—	13	18
80	63	2	22	—	38	—	—	30	11	16	—	—	12	26
70	55	2	29	11	37	—	—	29	20	15	—	—	11	33
60	47	2	36	18	36	—	—	28	33	14	—	—	11	4
50	39	3	3	27	35	—	—	28	3	13	—	—	10	11
40	31	3	11	—	34	—	—	27	9	12	—	—	9	18
30	23	3	18	8	33	—	—	26	15	11	—	—	8	26
20	15	3	25	22	32	—	—	25	21	10	—	—	7	35
10	7	3	32	29	31	—	—	24	27	9	—	—	7	6
9	7	—	25	19	30	—	—	23	33	8	—	—	6	18
8	6	1	18	9	29	—	—	23	4	7	—	—	5	20
7	5	2	10	34	28	—	—	22	11	6	—	—	4	28
6	4	3	3	24	27	—	—	21	18	5	—	—	3	35
5	3	3	36	14	26	—	—	20	25	4	—	—	3	6
4	3	—	29	4	25	—	—	19	33	3	—	—	2	13
3	2	1	21	30	24	—	—	19	3	2	—	—	1	21
2	1	2	14	20	23	—	—	18	11	1	—	—	—	29
1	—	3	7	10	22	—	—	17	18					

Irish Measure turned into English.

Irish Acres.	English.			Irish Roods	English.			Irish Perch.	English.		
	A.	R.	P.		A.	R.	P.		A.	R.	F.
400	647	3	29	3	1	—	32	21	—	—	34
300	485	3	33	2	—	3	10	20	—	—	32
200	323	3	35	1	—	1	24	19	—	—	30
100	161	3	38	Falls.				18	—	—	29
90	145	3	6	39	—	1	22	17	—	—	27
80	129	2	14	38	—	1	19	16	—	—	25
70	113	2	22	37	—	1	17	15	—	—	23
60	97	—	30	36	—	1	16	14	—	—	22
50	80	3	38	35	—	1	14	13	—	—	20
40	64	3	17	34	—	1	12	12	—	—	19
30	48	2	15	33	—	1	11	11	—	—	18
20	33	1	23	32	—	1	9	10	—	—	16
10	16	—	32	31	—	1	8	9	—	—	14
9	14	2	12	30	—	1	6	8	—	—	13
8	12	3	34	29	—	1	5	7	—	—	11 ¹ / ₂
7	11	1	14	28	—	1	4	6	—	—	10
6	9	2	34	27	—	1	3	5	—	—	8
5	8	—	15	26	—	1	2	4	—	—	6
4	6	1	36	25	—	1	—	3	—	—	5
3	4	3	16	24	—	—	38	2	—	—	3
2	3	—	38	23	—	—	37	1	—	—	1 ⁶ / ₁₁
1	1	2	19	22	—	—	35				

Irish Measure turned into Scotch.

Irish Acres	Scotch.			Irish Roods	Scotch.			Irish Perch	Scotch.		
	A.	R.	F.		A.	R.	F.		A.	R.	F.
400	515	1	26	3	—	3	34	21	—	—	27
300	386	2	9	2	—	2	23	20	—	—	26
200	257	2	33	1	—	1	11	19	—	—	25
100	128	3	16	Perch.				18	—	—	24
90	115	3	24		39	—	1	10	17	—	—
80	103	—	12	38	—	1	8	16	—	—	21
70	90	1	34	37	—	1	7	15	—	—	19
60	77	1	10	36	—	1	6	14	—	—	18
50	64	1	28	35	—	1	5	13	—	—	17
40	51	2	6	34	—	1	3	12	—	—	15
30	38	2	26	33	—	1	2	11	—	—	14
20	25	3	4	32	—	1	—	10	—	—	13
10	12	3	22	31	—	—	39	9	—	—	12
9	11	2	15	30	—	—	38	8	—	—	10
8	10	1	9	29	—	—	37	7	—	—	9
7	9	—	3	28	—	—	36	6	—	—	8
6	7	2	37	27	—	—	35	5	—	—	6
5	6	1	31	26	—	—	33	4	—	—	5
4	5	—	25	25	—	—	32	3	—	—	4
3	1	3	19	24	—	—	31	2	—	—	3
2	2	2	12	23	—	—	29	1	—	—	1 $\frac{1}{4}$
1	1	1	6	22	—	—	28				

TABLES shewing the Breadth required for an ACRE of Land,
from 1 Ell to 600 Ells.

Explanation.—Find the distance of the ground in the Tables, and opposite it you find the ells, feet, and inches required for one acre.

Example. Suppose you have a length of 128 ells, and wish to know what breadth to measure corresponding to that length to be an acre. Look into the Tables for 128 ells, and opposite it stands 45 ells, which is the breadth of 1 acre. If you want to know how far you should measure to lay off 2, 3, 4, or more acres, corresponding to that length of 128 ells; multiply 45 ells by the number of acres you want to stake off, suppose 6; then 45 multiplied by 6 gives 270 ells: this shews that you must measure 270 ells, which will be the width of 6 acres. If you want to lay off half an acre corresponding to the above length, take the half of 45 ells, which is 22 ells 1 foot 6 inches: this is the breadth for half an acre. If you want to lay off a quarter of an acre, take the $\frac{1}{4}$ th of 45, which is 11 ells 0 feet 9 inches. This width gives a quarter of an acre. If you want to lay off three-quarters of an acre, add the width of half an acre and the width of a quarter of an acre together, and that gives 33 ells, 2 feet, 3 inches, being the width for three-quarters of an acre; or it may be done by multiplying 45 by 3, and dividing the product by 4, which gives also 33 ells, 2 feet, 3 inches, some fractions excepted; which are not minded in any of the calculations.

It seldom happens that odd falls are wanted to be staked off but in small gardens, &c.; however, that may be known also, by multi-

plying the breadth of one acre, and dividing the product by 160 (the number of falls in an acre) Suppose 45, as before, to be the breadth required for an acre corresponding to the foregoing length of 128 ells: Then multiply 45 by the number of falls you want to stake off; suppose 16.

The operation thus:

Multiply by 45 ells the width of an acre.
16 falls.

270

45

Divide by the number of

falls in an acre..... 160)720(4 1 $\frac{1}{2}$. This is the width required for 16 falls.

640

60

Multiply by 3 which gives feet.

160)180(1

160

20

Multiply by 12 which gives inches.

160)240(1 $\frac{1}{2}$

160

80

An example or two more will be sufficient to make the whole easily understood. Suppose a farmer has 128 ells in length adjoining to a stone dike, and he wishes to sow 2 acres and 2 roods of barley, What width must he measure to give that quantity of ground?

Look into the Table for 128, the length, and opposite to it	E.	Ft.	In.
is 45 ells, the breadth of 1 acre, the double of which is	90	—	—
The half of 45 ells, for the half acre, is.....	22	1	6
<hr style="width: 100%;"/>			
The wide required for 2½ acres.....	112	1	6

Suppose you have a front of 42 ells, and you wish to feu off as much ground behind as will give the feu half an acre. Look into the Table for 42 ells, and opposite 42 you will find 137 ells 5 inches, the breadth of an acre; the half of which is 68 ells, 1 foot, 8½ inches: the distance required.

Suppose you have another front of 20 ells, and you are applied to for a feu of that front, and 20 falls behind for a garden, How far must you measure back?

Look into the Table for 20 ells, and opposite 20 is 288 ells, the breadth of an acre.

288
Multiply by 20 the number of falls wanted.
Divide by the number of _____
falls in an acre..... 160)5760(36 ells, the distance required
480 behind the front for 20 falls.
<hr style="width: 10%; margin: 0 auto;"/>
)960(
960

TABLE shewing the Breadth required for an Acre,
from 1 Ell Long to 100.

Ells Long.	Ells Wide	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.
1	5760	—	—	26	221	2	1	51	112	2	10	76	75	2	4
2	2880	—	—	27	213	1	—	52	110	2	4	77	74	2	5
3	1930	—	—	28	206	2	2	53	108	2	—	78	73	2	6
4	1440	—	—	29	198	1	10	54	106	2	2	79	72	2	10
5	1152	—	—	30	192	—	—	55	104	2	2	80	72	—	—
6	960	—	—	31	185	2	5	56	103	—	7	81	71	—	3
7	822	2	7	32	180	—	—	57	101	—	2	82	70	1	11
8	720	—	—	33	174	1	7	58	99	—	11	83	69	1	2
9	640	—	—	34	169	1	2	59	97	1	4	84	68	1	9
10	570	—	—	35	164	1	7	60	96	—	—	85	67	2	3
11	523	1	11	36	160	—	—	61	94	1	3	86	67	—	—
12	480	—	—	37	155	2	—	62	92	2	8	87	66	—	7
13	443	—	3	38	151	1	9	63	91	1	3	88	65	1	6
14	411	1	3	39	147	1	4	64	90	—	—	89	64	2	2
15	384	—	—	40	144	—	—	65	88	1	11	90	64	—	—
16	360	—	—	41	140	1	5	66	87	1	2	91	63	—	11
17	332	2	8	42	137	—	5	67	85	2	11	92	62	1	9
18	320	—	—	43	133	2	11	68	84	2	6	93	61	2	9
19	303	3	4	44	130	2	9	69	83	1	5	94	61	—	10
20	288	—	—	45	128	—	—	70	82	—	10	95	60	1	11
21	274	—	10	46	125	—	8	71	81	—	4	96	60	—	—
22	262	—	10	47	122	1	8	72	80	—	—	97	59	1	2
23	251	—	11	48	120	—	—	73	78	2	11	98	58	2	4
24	240	—	—	49	117	1	8	74	77	2	6	99	58	—	7
25	230	1	3	50	115	—	7	75	76	2	1	100	57	1	10

TABLE shewing the Breadth required for an Acre,
from 101 Ells Long to 200.

Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.
101	57	—	1	126	45	2	2	151	38	—	7	176	32	2	2
102	56	1	5	127	45	1	1	152	37	2	8	177	32	1	8
103	55	2	9	128	45	—	—	153	37	1	11	178	32	1	1
104	55	1	2	129	44	2	—	154	37	1	2	179	32	—	6
105	54	2	8	130	44	—	11	155	37	—	6	180	32	—	—
106	54	1	—	131	43	2	10	156	36	2	9	181	31	2	5
107	53	2	4	132	43	1	10	157	36	2	5	182	31	1	11
108	53	1	—	133	43	—	11	158	36	1	4	183	31	1	5
109	52	2	8	134	42	2	11	159	36	—	8	184	31	—	11
110	52	1	1	135	42	1	2	160	36	—	—	185	31	—	5
111	51	2	8	136	42	—	8	161	35	2	4	186	30	2	11
112	51	1	3	137	42	—	1	162	35	1	8	187	30	2	5
113	50	2	11	138	41	2	2	163	35	1	—	188	30	1	11
114	50	1	1	139	41	1	4	164	35	—	4	189	30	1	5
115	50	—	1	140	41	—	5	165	34	2	8	190	30	—	11
116	49	2	—	141	40	2	6	166	34	2	1	191	30	—	6
117	49	—	8	142	40	1	8	167	34	1	6	192	30	—	—
118	48	2	6	143	40	—	10	168	34	—	10	193	29	2	7
119	48	1	5	144	40	—	—	169	34	—	3	194	29	2	1
120	48	—	—	145	39	2	1	170	33	2	8	195	29	1	7
121	47	1	10	146	39	1	4	171	33	2	1	196	29	1	2
122	47	—	2	147	39	—	6	172	33	1	6	197	29	—	9
123	46	2	6	148	38	2	9	173	33	—	11	198	29	—	3
124	46	1	4	149	38	1	11	174	33	—	4	199	28	2	10
125	46	—	3	150	38	1	2	175	32	2	8	200	28	2	5

TABLE shewing the Breadth required for an Acre,
from 201 Ells Long to 300.

Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.
201	28	1	11	226	25	1	4	251	22	2	10	276	20	2	7
202	28	1	6	227	25	1	—	252	22	2	7	277	20	2	4
203	28	1	1	228	25	—	9	253	22	2	4	278	20	2	2
204	28	—	8	229	25	—	5	254	22	2	—	279	20	1	11
205	28	—	3	230	25	—	1	255	22	1	9	280	20	1	8
206	27	2	10	231	24	2	9	256	22	1	6	281	20	1	5
207	27	2	5	232	24	2	5	257	22	1	3	282	20	1	2
208	27	2	—	233	24	2	1	258	22	1	—	283	20	—	11
209	27	1	8	234	24	1	10	259	22	—	9	284	20	—	9
210	27	1	3	235	24	1	6	260	22	—	6	285	20	—	7
211	27	—	10	236	24	1	2	261	22	—	3	286	20	—	5
212	27	—	6	237	24	—	11	262	21	2	11	287	20	—	3
213	27	—	1	238	24	—	7	263	21	2	8	288	20	—	—
214	26	2	9	239	24	—	4	264	21	2	5	289	19	2	9
215	26	2	4	240	24	—	—	265	21	2	2	290	19	2	6
216	26	2	—	241	23	2	8	266	21	1	11	291	19	2	3
217	26	1	8	242	23	2	4	267	21	1	8	292	19	2	1
218	26	1	3	243	23	2	1	268	21	1	5	293	19	1	10
219	26	—	11	244	23	1	10	269	21	1	2	294	19	1	8
220	26	—	7	245	23	1	7	270	21	1	—	295	19	1	6
221	26	—	2	246	23	1	4	271	21	—	9	296	19	1	4
222	25	2	9	247	23	1	—	272	21	—	6	297	19	1	2
223	25	2	5	248	23	—	8	273	21	—	3	298	19	1	—
224	25	2	1	249	23	—	5	274	21	—	1	299	19	—	9
225	25	1	9	250	23	—	1	275	20	2	10	300	19	—	—

TABLE shewing the Breadth required for an Acre,
from 301 Ells Long to 400.

Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.
301	19 — 5	326	17 2 —	351	16 1 2	376	15 — 11
302	19 — 2	327	17 1 10	352	16 1 1	377	15 — 9
303	19 — —	328	17 1 9	353	16 — 11	378	15 — 8
304	18 2 10	329	17 1 7	354	16 — 9	379	15 — 7
305	18 2 8	330	17 1 5	355	16 — 8	380	15 — 6
306	18 2 6	331	17 1 3	356	16 — 6	381	15 — 4
307	18 2 4	332	17 1 1	357	16 — 4	382	15 — 3
308	18 2 2	333	17 — 11	358	16 — 3	383	15 — 2
309	18 2 —	334	17 — 10	359	16 — 2	384	15 — —
310	18 1 9	335	17 — 8	360	16 — —	385	14 2 10
311	18 1 7	336	17 — 6	361	15 2 10	386	14 2 9
312	18 1 5	337	17 — 4	362	15 2 9	387	14 2 7
313	18 1 2	338	17 — 2	363	15 2 7	388	14 2 6
314	18 1 —	339	17 — 1	364	15 2 6	389	14 2 5
315	18 — 10	340	16 2 11	365	15 2 4	390	14 2 4
316	18 — 8	341	16 2 9	366	15 2 3	391	14 2 2
317	18 — 6	342	16 2 7	367	15 2 2	392	14 2 1
318	18 — 4	343	16 2 5	368	15 2 1	393	14 2 —
319	18 — 2	344	16 2 3	369	15 2 —	394	14 1 10
320	18 — —	345	16 2 1	370	15 1 10	395	14 1 9
321	17 2 10	346	16 1 11	371	15 1 8	396	14 1 7
322	17 2 8	347	16 1 9	372	15 1 6	397	14 1 6
323	17 2 6	348	16 1 7	373	15 1 5	398	14 1 5
324	17 2 4	349	16 1 5	374	15 1 3	399	14 1 3
325	17 2 2	350	16 1 4	375	15 1 1	400	14 1 2

TABLE shewing the Breadth required for an Acre
from 401 Ells Long to 500.

Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.	Ells Long.	Ells Wide. Ft. In.
401	14 1 1	426	13 1 6	451	12 2 4	476	12 — 3 $\frac{1}{2}$
402	14 1 —	427	13 1 5	452	12 2 3	477	12 — 3
403	14 — 11	428	13 1 4	453	12 2 2	478	12 — 2
404	14 — 10	429	13 1 3	454	12 2 1	479	12 — 1
405	14 — 9	430	13 1 2	455	12 2 —	480	12 — —
406	14 — 8	431	13 1 1	456	12 1 11	481	11 2 11
407	14 — 6	432	13 1 —	457	12 1 10	482	11 2 10
408	14 — 5	433	13 — 11	458	12 1 9	483	11 2 9
409	14 — 3	434	13 — 10	459	12 1 8	484	11 2 8
410	14 — 2	435	13 — 9	460	12 1 7	485	11 2 7
411	14 — 1	436	13 — 7	461	12 1 6	486	11 2 6
412	14 — —	437	13 — 6	462	12 1 5	487	11 2 5 $\frac{1}{2}$
413	13 2 11	438	13 — 4	463	12 1 4	488	11 2 5
414	13 2 9	439	13 — 3	464	12 1 3	489	11 2 4
415	13 2 8	440	13 — 2	465	12 1 2	490	11 2 3
416	13 2 6	441	13 — 1	466	12 1 1	491	11 2 2
417	13 2 5	442	13 — —	467	12 1 —	492	11 2 1
418	13 2 4	443	12 2 11	468	12 — 11	493	11 2 —
419	13 2 3	444	12 2 10	469	12 — 10	494	11 1 11 $\frac{1}{2}$
420	13 2 2	445	12 2 9 $\frac{1}{2}$	470	12 — 9	495	11 1 11
421	13 2 1	446	12 2 9	471	12 — 8	496	11 1 10
422	13 1 11	447	12 2 8	472	12 — 7	497	11 1 9
423	13 1 10	448	12 2 7	473	12 — 6	498	11 1 8
424	13 1 8	449	12 2 6	474	12 — 5	499	11 1 7
425	13 1 7	450	12 2 5	475	12 — 4	500	11 1 6

TABLE shewing the Breadth required for an Acre
from 501 Ells Long to 600.

Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.	Ells Long.	Ells Wide.	Ft.	In.
501	11	1	5	526	10	2	11	551	10	1	4	576	10	—	— $\frac{1}{2}$
502	11	1	4	527	10	2	10	552	10	1	3 $\frac{1}{2}$	577	10	—	—
503	11	1	3	528	10	2	9	553	10	1	3	578	9	2	11
504	11	1	3	529	10	2	8	554	10	1	2 $\frac{1}{2}$	579	9	2	10
505	11	1	2	530	10	2	7	555	10	1	2	580	9	2	9 $\frac{1}{2}$
506	11	1	1	531	10	2	6	556	10	1	1	581	9	2	9
507	11	1	— $\frac{1}{2}$	532	10	2	5 $\frac{1}{2}$	557	10	1	— $\frac{1}{2}$	582	9	2	8 $\frac{1}{2}$
508	11	1	—	533	10	2	5	558	10	1	—	583	9	2	8
509	11	—	11 $\frac{1}{2}$	534	10	2	4	559	10	—	11	584	9	2	7
510	11	—	11	535	10	2	3	560	10	—	10	585	9	2	6 $\frac{1}{2}$
511	11	—	10	536	10	2	2 $\frac{1}{2}$	561	10	—	9	586	9	2	6
512	11	—	9	537	10	2	2	562	10	—	8 $\frac{1}{2}$	587	9	2	5
513	11	—	8	538	10	2	1	563	10	—	8	588	9	2	4 $\frac{1}{2}$
514	11	—	7	539	10	2	— $\frac{1}{2}$	564	10	—	7 $\frac{1}{2}$	589	9	2	4
515	11	—	6	540	10	2	—	565	10	—	7	590	9	2	3 $\frac{1}{2}$
516	11	—	5	541	10	1	11 $\frac{1}{2}$	566	10	—	6 $\frac{1}{2}$	591	9	2	3
517	11	—	4 $\frac{1}{2}$	542	10	1	11	567	10	—	6	592	9	2	2 $\frac{1}{2}$
518	11	—	4	543	10	1	10	568	10	—	5	593	9	2	2
519	11	—	3	544	10	1	9 $\frac{1}{2}$	569	10	—	4 $\frac{1}{2}$	594	9	2	1 $\frac{1}{2}$
520	11	—	2 $\frac{1}{2}$	545	10	1	9	570	10	—	4	595	9	2	1
521	11	—	2	546	10	1	8	571	10	—	3	596	9	2	— $\frac{1}{2}$
522	11	—	1	547	10	1	7	572	10	—	2 $\frac{1}{2}$	597	9	2	—
523	11	—	— $\frac{1}{2}$	548	10	1	6	573	10	—	2	598	9	1	11
524	11	—	—	549	10	1	5 $\frac{1}{2}$	574	10	—	1 $\frac{1}{2}$	599	9	1	10 $\frac{1}{2}$
525	10	—	11	550	10	1	5	575	10	—	1	600	9	1	10

TABLE for ascertaining the Length of One Rood of MASON-WORK in a Stone-Wall, from 1 Inch to 10 Feet in Height.

EXPLANATION.—When a wall is to be built, it is generally agreed between the employer and contractor to be paid *per* the rood of 36 yards. *Example.* Suppose you build a wall 4 feet 6 inches high. In the Table, opposite 4 feet 6 inches, is 24 yards, which is the lineal length of 1 rood of mason-work corresponding to that height; and as often as you have that length in your wall there are as many roods in the wall. Suppose you have that length 19 times and 18 lineal yards more; this shews that the wall contains 19 roods and 18 lineal yards of mason-work.

Again; suppose you build a dike or stone-wall 6 feet 6 inches high: Opposite 6 feet 6 inches is 16 yards 1 foot 10 inches, which is the length of 1 rood corresponding to that height, with a tape 16 yards 1 foot 10 inches long; and as often as you have that length in the wall, suppose 40 times and 8 yards; which is equal to 40 roods of mason-work, and 8 lineal yards.

Again; suppose you build a dike 9 feet 9 inches high. Opposite it in the Table is 11 yards 0 feet 2 inches: every time you have that length is 1 rood, suppose 79 times and 9 yards; which in all is 79 roods of mason-work and 9 lineal yards.

Again; suppose you have a garden-wall 6 feet high; you want to raise it 9 inches higher. Opposite 9 inches is 144 yards, which is the length of 1 rood corresponding to that height of 9 inches: as often as you have 144 yards in length is the number of roods of mason-work

contained in the addition to the garden-wall. Suppose you measure round the garden, and you find it contains in all 5000 yards; divide that number by 144, which gives the number of roods, viz. 34 roods, and 104 lineal yards over.

N. B. The remainders are all set down in lineal or running yards, which should be turned into square measure; and is done thus: multiply the remainders by 36, and divide the product by the number of lineal yards that you find in a rood of mason-work.

In example first there are 18 lineal yards remaining.

18 lineal yards
Multiply by 36 yards in a rood

108

54

Divide by..... 24)648(27 square yards the answer.
the lineal length of a rood 48

168

In the last example 104 lineal yards remain

56

624

312

Divide by..... 144)5744(26 square yards the answer.
the lineal length of a rood 288

864

TABLE for ascertaining the Length of One Rod of Mason-Work in a Stone-Wall from One Inch to Ten Feet in Height.

Height of the Wall.		Length of one Rod.		Height of the Wall.		Length of one Rod.		Height of the Wall.		Length of one Rod.		Height of the Wall.		Length of one Rod.										
Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.	Ft.	In.								
-	1	1296	-	-	2	1	51	2	6	4	1	26	1	4	6	1	17	2	3	8	1	13	1	1
-	2	648	-	-	2	2	49	2	6	4	2	25	2	9	6	2	17	1	6	8	2	13	-	8
-	3	432	-	-	2	3	48	-	-	4	3	25	1	3	6	3	17	-	10	8	3	13	-	3
-	4	324	-	-	2	4	46	-	10	4	4	24	2	9	6	4	17	-	2	8	4	12	2	10
-	5	259	-	7	2	5	44	2	1	4	5	24	1	5	6	5	16	2	4	8	5	12	2	6
-	6	216	-	-	2	6	43	-	7	4	6	24	-	-	6	6	16	1	10	8	6	12	2	1
-	7	185	-	5	2	7	41	2	5	4	7	23	1	8	6	7	16	1	2	8	7	12	1	9
-	8	162	-	-	2	8	40	1	6	4	8	23	-	5	6	8	16	-	7	8	8	12	1	4
-	9	144	-	-	2	9	39	-	10	4	9	22	2	2	6	9	16	-	-	8	9	12	1	-
-	10	129	1	9	2	10	38	-	4	4	10	22	1	-	6	10	15	2	5	8	10	12	-	8
-	11	117	2	5	2	11	37	-	1	4	11	21	2	10	6	11	15	1	10	8	11	12	-	4
1	-	108	-	-	3	-	36	-	-	5	-	21	1	7	7	-	15	1	3	9	-	12	-	-
1	1	99	2	9	3	1	35	-	1	5	1	21	-	9	7	1	15	-	9	9	1	11	2	8
1	2	92	2	2	3	2	34	-	4	5	2	20	2	3	7	2	15	-	2	9	2	11	2	4
1	3	86	1	2	3	3	33	-	8	5	3	20	1	9	7	3	14	2	8	9	3	11	2	-
1	4	81	-	-	3	4	32	1	1	5	4	20	-	8	7	4	14	2	2	9	4	11	1	8
1	5	76	-	8	3	5	31	1	10	5	5	19	2	8	7	5	14	1	8	9	5	11	1	4
1	6	72	-	-	3	6	30	2	8	5	6	19	1	11	7	6	14	1	2	9	6	11	1	-
1	7	68	-	8	3	7	30	-	5	5	7	19	1	-	7	7	14	-	9	9	7	11	-	9
1	8	64	2	5	3	8	29	1	4	5	8	19	-	2	7	8	14	-	3	9	8	11	-	6
1	9	61	2	2	3	9	28	2	7	5	9	18	2	3	7	9	13	2	10	9	9	11	-	2
1	10	58	2	9	3	10	28	-	6	5	10	18	1	6	7	10	13	2	4	9	10	10	2	11
1	11	56	1	-	3	11	27	1	9	5	11	18	-	9	7	11	13	1	11	9	11	10	2	8
2	-	54	-	-	4	-	27	-	-	6	-	18	-	-	8	-	13	1	6	10	-	10	2	5

TABLE for ascertaining the Number of CABBAGES that will Grow upon from 1 Fall of Ground to 60 Acres, for Feeding of Cattle.

EXPLANATION.—The figures at the top of the columns are the supposed distance in feet and inches one plant is asunder from another—those under are the number of plants—and the figures in the left hand column are acres, roods, and falls.

One example is sufficient to explain this Table, *viz.*

Suppose you have 12 acres 3 roods and 25 falls of ground, and you wish to know how many cabbages could be planted at 1 foot 6 inches distant from one another.

Look at the top of the Table for 1 foot 6 inches, and go down that column till you are opposite 10 acres, and you will find..... 245820
 Look down the { 2 acres, and you will find..... 48764
 same column { 3 roods,..... 18285
 till you are { 20 falls,..... 3045
 opposite { 5 falls,..... 762

The sum of which is the number of cabbages..... 314676

If the above cabbages are only valued at 1d. *per* dozen, they will amount to L. 109 : 5 : 3.

Number of Cabbages

A.	R.	F.	at 1 Foot Distance.	at 1 Ft. 6 in. Distance.	at 2 Feet Distance	at 2 Ft. 6 in. Distance.	at 3 Feet Distance.
—	—	1	342	152	86	55	38
—	—	2	684	305	171	109	76
—	—	3	1027	457	257	164	114
—	—	4	1364	609	391	219	152
—	—	5	1711	762	428	274	190
—	—	6	2053	914	513	329	228
—	—	7	2395	1066	598	384	266
—	—	8	2737	1219	684	438	304
—	—	9	3080	1372	770	492	342
—	—	10	3422	1524	855	548	380
—	—	20	6845	3045	1711	1095	760
—	—	30	10267	4572	2566	1642	1141
—	1	—	13690	6095	3422	2190	1521
—	2	—	27880	12191	6845	4380	3042
—	3	—	41570	18285	10268	6570	4563
1	—	—	54760	24382	13690	8761	6084
2	—	—	109520	48764	27380	17522	12168
3	—	—	164280	73146	41070	26283	18252
4	—	—	219040	97528	54760	35044	24366
5	—	—	271800	121910	68450	43805	30420
6	—	—	320560	146292	82140	52566	36504
7	—	—	383320	170774	95850	61327	42588
8	—	—	438080	195056	109540	70088	48672
9	—	—	492840	219430	122330	78849	54756
10	—	—	547600	243820	136920	87610	60840
20	—	—	1095200	487640	273840	175220	121680
30	—	—	1642800	731460	410760	262830	182520
40	—	—	2190400	975280	547680	350440	243360
50	—	—	2718000	1219100	684650	438050	304200
60	—	—	3285600	1462920	828200	525660	365040

TABLE for knowing what Quantity of FOREST TREES to order to plant on any quantity of Ground from 1 Fall to 60 Acres.

EXPLANATION.—The left hand column shews the quantity of ground in acres, roods, and falls; the top column the supposed distance in feet and inches one tree is planted from another, and under that column is the number of trees.

N. B. If the number of trees is wanted only to be planted two or three feet asunder, look into the Table of Cabbages and you will find the number.

Suppose you want to plant 25 acres 2 roods and 25 falls at 4 feet 6 inches distant from one another.

Look into the Table under 4 feet 6 inches, and opposite.....	{	20 acres you will find.....	54180
		5 ditto.....	13545
		2 roods.....	1350
		20 falls.....	358
		5 ditto.....	84

The number of trees wanted to purchase to plant 25 acres 2 roods 25 falls of ground, at 1 foot 6 inches distant from one another..... 69497

N. B. The calculations are all made in the Table the short hundred of five score. As many nursereymen sell their forest trees by the long hundred of six score, multiplying by 5, and dividing by 6, gives the number of forest trees wanted in the long hundred of six score. Suppose..... 69497

Is multiplied by..... 5

And divided by..... $\frac{6)347485}{57914}$

Gives the number in the long hundred 57914

Number of Trees at

A.	R.	F.	3 Feet 6 In. Distant.	4 Feet Distant.	4 Feet 6 In. Distant.	5 Feet Distant.	5 Feet 6 In. Distant.	6 Feet Distant.
—	—	1	28	21	17	14	11	10
—	—	2	56	43	34	27	22	18
—	—	3	84	64	51	41	34	28
—	—	4	112	85	68	54	45	38
—	—	5	140	107	84	68	56	47
—	—	6	168	128	101	82	67	57
—	—	7	196	150	118	96	79	66
—	—	8	223	171	135	109	90	76
—	—	9	251	194	152	123	101	85
—	—	10	279	214	169	137	113	95
—	—	20	559	428	338	274	221	190
—	—	30	834	642	507	411	339	286
—	1	—	1117	855	677	548	452	381
—	2	—	2235	1711	1350	1095	905	760
—	3	—	3352	2566	2032	1642	1358	1140
1	—	—	4470	3422	2709	2190	1810	1521
2	—	—	8940	6844	5418	4380	3620	3040
3	—	—	13410	10266	8127	6570	5430	4560
4	—	—	17880	13688	10836	8760	7240	6080
5	—	—	22350	17100	13545	10950	9050	7600
6	—	—	26820	20532	16254	13140	10860	9120
7	—	—	31290	23954	18963	15330	12670	10640
8	—	—	35760	27376	21672	17520	14480	12160
9	—	—	40230	30798	24381	19710	16290	13680
10	—	—	44700	34220	27090	21900	18100	15210
20	—	—	89400	68440	54180	43800	36200	30400
30	—	—	134100	102660	81270	65700	54300	45600
40	—	—	178800	136880	108360	87600	72400	60800
50	—	—	223500	171100	135450	109500	90500	76000
60	—	—	268200	205320	162540	131400	108600	91200

TABLE I. *For Dunging, Liming, or Manuring Land.*

EXPLANATION.—The large figures on the top column shew the number of heaps in a cart-load, and under them the number of cart-loads required for an acre for any given distance of the heaps. The figures on the left hand column shew the distance of the heaps of manure in ells and half ells that the heaps are distant from one another.

Suppose heaps of dung are placed $4\frac{1}{2}$ ells from one another, and 6 heaps made out of a cart-load. Then under 6, and opposite $4\frac{1}{2}$, you find 48; which is the number of cart-loads wanted to manure an acre. Or suppose heaps of lime are placed 5 ells distant from one another, and you make 8 heaps out of a cart-load—the Table shews that 29 cart-loads of lime will manure an acre.

The Large Figures shew the Number of Heaps in a Cart-load.—The Figures below them shew the Number of Cart-load for an Acre.

Distances of the Heaps in Ells.	1	2	3	4	5	6	7	8	9	10	11	12
1	5760	2880	1920	1440	1152	960	823	720	640	576	504	480
1½	2560	1280	859	644	512	427	366	320	285	256	233	214
2	1440	720	480	360	288	240	206	175	160	144	131	120
2½	992	496	333	248	199	166	172	124	111	100	90	84
3	640	320	214	160	128	107	92	80	71	64	59	54
3½	470	235	157	118	94	80	67	58	52	47	43	39
4	360	180	120	90	72	60	52	45	40	36	33	30
4½	285	142	95	72	57	48	41	36	32	29	26	24
5	230	115	77	58	46	39	33	29	26	23	21	19
5½	190	95	63	48	38	32	27	24	21	19	17	16
6	160	80	52	40	32	28	23	20	18	16	15	14
6½	136	68	46	34	28	23	20	17	15	14	13	12
7	118	59	39	30	24	20	17	15	13	12	11	10
7½	103	52	35	26	21	17	15	13	12	11	10	9
8	90	45	30	23	18	15	13	11	10	9	8	8
8½	80	40	27	20	16	14	12	10	9	8	7	7
9	72	36	24	18	15	12	10	9	8	7	6	6
9½	64	32	22	16	13	11	9	8	7	6	5	5
10	58	28	20	15	12	10	8	7	6	6	5	5
10½	53	26	18	14	11	9	8	7	6	6	5	5
11	48	24	16	12	10	8	7	6	5	5	4	4
11½	44	22	14	11	9	7	6	6	5	5	4	4
12	40	20	13	10	8	7	6	5	5	4	4	4

TABLE II. *For Dunging, Liming, and Manuring Ground.*

THE first Table for manuring land is made supposing the distance of the rows is equal to the distance of the heaps from each other ; but as this very seldom happens, or can be done upon corn lands or rigs where the furrows are deep—the following Table will shew the number of heaps wanted to cover an acre at any breadth of the rows, and the distance of the heaps from one another.

Explanation.—The figures placed at the top of the columns are the distance of the breadth of the rows ; those on the left hand column are the distance of the heaps on the rigs from one another : immediately under the top column, and opposite the left hand column, you will find the number of heaps wanted to cover an acre.

Example. Suppose the rows 8 ells in breadth from one another, and the heaps $6\frac{1}{2}$ ells from one another. Under 8 on the top column, and opposite $6\frac{1}{2}$ on the left hand column, you will find 111, the number of heaps required for an acre ; and if this number (111) be divided by the number of heaps you make of a cart-load (which suppose 5), shews that $22\frac{1}{5}$ cart-loads are wanted for an acre.

Again ; suppose the rows to be 6 ells from one another, and the distance of the heaps laid upon the ridge to be only 2 ells from one another, and you make only 3 heaps in a cart-load ; under 6 on the top column, and opposite 2 in the left hand column, you find 480 heaps ; this number, divided by 3, gives 160 cart-loads to manure an acre of ground.

Distance of
the Heaps
in Ells.

The Large Figures placed at the top of the Columns shew the supposed Distance of the Heaps—The Figures below them are the number of Heaps required for an Acre.

	2	3	4	5	6	7	8	9	10	11	12
1	2880	1920	1440	1152	960	823	720	640	576	524	480
1 $\frac{1}{2}$	1952	1280	960	768	640	549	480	428	384	360	320
2	1440	960	720	576	480	412	360	320	288	262	240
2 $\frac{1}{2}$	1152	768	576	461	384	329	288	256	236	209	192
3	960	640	480	384	320	275	240	214	192	175	160
3 $\frac{1}{2}$	823	545	412	329	275	235	206	183	165	150	138
4	720	480	360	288	240	206	180	160	144	131	120
4 $\frac{1}{2}$	640	428	320	256	214	183	160	142	128	117	107
5	576	384	288	231	192	165	144	129	115	105	96
5 $\frac{1}{2}$	524	350	275	210	175	150	131	117	105	96	88
6	480	320	240	192	160	137	120	107	96	88	80
6 $\frac{1}{2}$	443	296	222	177	148	127	111	99	89	81	78
7	412	275	206	165	137	118	103	92	83	75	69
7 $\frac{1}{2}$	384	256	192	154	128	111	96	86	77	70	64
8	360	240	180	144	120	103	90	80	72	66	60
8 $\frac{1}{2}$	339	226	169	136	113	98	85	76	68	62	57
9	320	214	160	128	107	92	80	72	64	59	54
9 $\frac{1}{2}$	304	203	152	122	102	87	76	68	61	56	51
10	288	192	144	115	96	83	72	64	58	53	48
10 $\frac{1}{2}$	275	183	137	110	92	79	69	61	55	50	46
11	262	175	131	105	88	75	66	59	53	47	44
11 $\frac{1}{2}$	255	167	126	100	84	72	63	56	51	45	42
12	240	160	120	96	80	69	60	54	48	44	40

TABLE for Measuring SLATERS and THATCHERS WORK,
from 1 to 100 Feet Long, and from 1 to 18 Feet High
Slant of the Roof.

EXPLANATION.—Slaters and thatchers work is measured by the yard, and sometimes by the rood, which is 36 square yards. One square yard is 9 feet; that is to say, 3 feet long and 3 feet wide. The dimensions of the Table are set down in square yards and feet. If the number of roods is wanted, dividing the square yards by 36 gives the roods, and the remainder is square yards and feet.

How to Measure the Roof of a House or Stack.

Measure the length of it in feet, and also the height from the eaves to their top. Then in the Table, opposite the length of the house or stack, in the column on the left hand, and opposite the height of the roof in the top column, you have the contents of one side in square yards and feet; and if the dimensions be the same on the other side of the roof, double the contents.

Example.—If the roof of a house is 40 feet long and 15 feet in height by the slant to the top; then under 15 feet on the top, and opposite 40 on the left hand column, you find 66 yards 6 feet for the content of one side; the double of which is 133 yards 3 feet; being the contents of the whole roof: That number divided by 36 gives 3 roods 25 yards and 3 feet. If the roof should be unequal, add the contents of the two sides together. But observe, when you add feet together, to

carry 1 for every 9 feet; as it takes 9 square feet to make 1 square yard. If 66 yards 6 feet were doubled, 3 is set down under feet, and 1 carried to the yards; which makes the sum 133 yards 3 feet.

How to Measure the Thatch of a Stack.

Measure round the stack at the bottom of the thatch, and then from the eaves to the top; which should be halved for a mean height. Suppose a stack measures 80 feet round, and 16 feet from the eaves to the top; look into the Table at the top column for 8, which is the half of 16, and opposite 80, on the left hand column, you will find 71 yards and 1 foot; which is the contents of the thatch.

The above is so plain that it needs no further illustration.

TABLE of *Slaters and Thatchers Work*, from 1 to 100 Feet Long,
and from 1 to 9 Feet in Height.

Feet Long.	Feet Wide. 1		Feet Wide. 2		Feet Wide. 3		Feet Wide. 4		Feet Wide. 5		Feet Wide. 6		Feet Wide. 7		Feet Wide. 8		Feet Wide. 9	
	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.
1	—	1	—	2	—	3	—	4	—	5	—	6	—	7	—	8	1	—
2	—	2	—	4	—	6	—	8	1	1	1	3	1	5	1	7	2	—
3	—	3	—	6	1	—	1	3	1	6	2	—	2	3	2	6	3	—
4	—	4	—	8	1	3	1	7	2	2	2	6	3	1	3	5	4	—
5	—	5	1	1	1	6	2	2	2	7	3	3	3	8	4	4	5	—
6	—	6	1	3	2	—	2	6	3	3	4	—	4	6	5	3	6	—
7	—	7	1	5	2	3	3	1	3	8	4	6	5	4	6	2	7	—
8	—	8	1	7	2	6	3	5	4	4	5	3	6	2	7	1	8	—
9	1	—	2	—	3	—	4	—	5	—	6	—	7	—	8	—	9	—
10	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	10	—
20	2	2	4	4	6	6	8	8	11	11	13	3	15	5	17	7	20	—
30	3	3	6	6	10	—	13	3	16	6	20	—	23	3	26	6	30	—
40	4	4	8	8	13	3	17	7	22	2	26	6	31	1	35	5	40	—
50	5	5	10	10	16	6	22	2	27	7	33	3	38	8	44	4	50	—
60	6	6	13	3	20	—	26	6	33	3	30	—	46	6	53	3	60	—
70	7	7	15	5	23	3	31	1	38	8	46	6	54	4	62	2	70	—
80	8	8	17	7	26	6	35	5	44	4	53	3	62	2	71	1	80	—
90	10	—	20	—	30	—	40	—	50	—	60	—	70	—	80	—	90	—
100	11	1	22	2	33	3	44	4	55	5	66	6	77	7	88	8	100	—

TABLE of *Slaters and Thatchers Work*, from 1 to 100 Feet Long,
and from 10 to 18 Feet in Height.

Feet Long.	Feet Wide. 10		Feet Wide. 11		Feet Wide. 12		Feet Wide. 13		Feet Wide. 14		Feet Wide. 15		Feet Wide. 16		Feet Wide. 17		Feet Wide. 18	
	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.	Yd.	Ft.
1	1	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	2	—
2	2	2	2	4	2	6	2	8	3	1	3	3	3	5	3	7	4	—
3	3	3	3	6	4	—	4	3	4	6	5	—	5	3	5	6	6	—
4	4	4	4	8	5	3	5	7	6	2	6	6	7	1	7	5	8	—
5	5	5	6	1	6	6	7	2	7	7	8	3	8	8	9	4	10	—
6	6	6	7	3	8	—	8	6	9	3	10	—	10	6	11	3	12	—
7	7	7	8	5	9	3	10	1	10	8	11	6	12	4	13	2	14	—
8	8	8	9	7	10	6	11	5	12	4	13	3	14	2	15	1	16	—
9	10	—	11	—	12	—	13	—	14	—	15	—	16	—	17	—	18	—
10	11	1	12	2	13	3	14	4	15	5	16	6	17	7	18	8	20	—
20	22	2	24	4	26	6	28	8	31	1	33	2	35	5	37	7	40	—
30	33	3	36	6	40	—	43	3	46	6	50	—	53	3	56	6	60	—
40	44	4	48	8	53	3	57	7	62	2	66	6	71	1	75	5	80	—
50	55	5	61	1	66	6	72	2	77	7	83	3	88	8	94	4	100	—
60	66	6	73	3	80	—	86	6	93	3	100	—	106	6	113	3	120	—
70	77	7	85	5	93	3	101	1	108	8	116	6	124	4	132	2	140	—
80	88	8	97	7	106	6	115	5	124	4	133	3	142	2	151	1	160	—
90	100	—	110	—	120	—	130	—	140	—	150	—	160	—	170	—	180	—
100	110	1	122	2	133	3	144	4	155	5	166	6	177	7	188	8	200	—

TABLE for turning ACRES, ROODS, and FALLS,
into MONEY.

EXPLANATION.—The left hand column shews the quantity of land, and the other columns the value, at different rates, *per acre*.

A few examples will be necessary to explain the Tables.

Suppose 20 acres 1 rood 20 falls, valued at L. 3 *per acre*—What is the amount in cash?

Look into the Table at the top for L. 3, and in that column, opposite to 20 acres, you will find..... L. 60 0 0
 Opposite to 1 rood..... 0 15 0
 20 falls..... 0 7 6
 Therefore the amount of 20 acres 1 rood 20 falls, valued at L. 3 *per acre*, is..... L. 61 2 6

Example II. Suppose 55 acres 3 roods 1 fall, valued at L. 5, 10s. *per acre*—What is the amount in cash?

1st. Look into the Table for L. 5, and in that column, opposite to 50 acres, you will find..... L. 250 0 0
 Opposite to 5 acres..... 25 0 0
 Carry over..... L. 275 0 0

	Brought forward.....	L. 275	0	0
Opposite to 3 roods.....		3	15	0
1 fall.....		0	0	7½
2d. Look into the Table for 10s. and opposite to 50 acres you will find.....		25	0	0
Opposite to 5 acres.....		2	10	0
3 roods.....		0	7	6
1 fall.....		0	0	0¾
		<hr/>		
	The amount sought.....	L. 306	13	2¼

Example III. A gentlemen buys 64 acres 2 roods at L. 100 : 5 : 6
per acre—What is the money the above ground costs him ?

1st. Look into the Table under L. 100, and opposite to 60 acres you will find.....		L. 6000	0	0
Opposite to 4 acres.....		400	0	0
2 roods.....		50	0	0
2d. Look into the Table for 5s. and opposite to 60 acres		15	0	0
Opposite to 4 acres.....		1	0	0
2 roods.....		0	2	6
3d. Look into the Table for 6d. and opposite to 60 acres		1	10	0
Opposite to 4 acres.....		0	2	0
2 roods.....		0	0	3
		<hr/>		
	The amount that the land costs.....	L. 6467	14	9

Quantity of Land.			At 6d. per Acre.			At 1s. per Acre.			At 2s. per Acre.			At 3s. per Acre.			At 4s. per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	$\frac{24}{1000}$	0	0	$\frac{48}{1000}$	0	0	$\frac{96}{1000}$	0	0	$\frac{144}{1000}$	0	0	$0\frac{1}{4}\frac{3}{16}$
—	—	2	0	0	$\frac{48}{1000}$	0	0	$\frac{96}{1000}$	0	0	$0\frac{1}{4}\frac{3}{16}$	0	0	$0\frac{1}{4}\frac{1}{16}$	0	0	$0\frac{1}{2}\frac{6}{16}$
—	—	3	0	0	$\frac{72}{1000}$	0	0	$\frac{144}{1000}$	0	0	$0\frac{1}{4}\frac{1}{16}$	0	0	$0\frac{1}{2}\frac{1}{16}$	0	0	$0\frac{3}{4}\frac{9}{16}$
—	—	4	0	0	$\frac{96}{1000}$	0	0	$0\frac{1}{4}\frac{3}{16}$	0	0	$0\frac{1}{2}\frac{6}{16}$	0	0	$0\frac{3}{4}$	0	0	$1\frac{12}{16}$
—	—	5	0	0	$\frac{120}{1000}$	0	0	$0\frac{1}{4}\frac{8}{16}$	0	0	$0\frac{3}{4}$	0	0	1	0	0	$1\frac{1}{2}$
—	—	6	0	0	$\frac{144}{1000}$	0	0	$0\frac{1}{4}\frac{12}{16}$	0	0	$0\frac{3}{4}\frac{9}{16}$	0	0	$1\frac{1}{4}\frac{6}{16}$	0	0	$1\frac{1}{4}\frac{3}{16}$
—	—	7	0	0	$0\frac{1}{4}\frac{8}{1000}$	0	0	$0\frac{1}{2}\frac{1}{16}$	0	0	1	0	0	$1\frac{1}{4}\frac{4}{16}$	0	0	$2\frac{6}{16}$
—	—	8	0	0	$0\frac{1}{4}\frac{12}{1000}$	0	0	$0\frac{1}{2}\frac{6}{16}$	0	0	1	0	0	$1\frac{3}{4}\frac{3}{16}$	0	0	$2\frac{4}{16}\frac{1}{16}$
—	—	9	0	0	$0\frac{1}{4}\frac{16}{1000}$	0	0	$0\frac{1}{2}\frac{1}{16}$	0	0	$1\frac{1}{4}\frac{6}{16}$	0	0	2	0	0	$2\frac{1}{2}$
—	—	10	0	0	$0\frac{1}{4}\frac{80}{1000}$	0	0	$0\frac{3}{4}$	0	0	$1\frac{1}{2}$	0	0	$2\frac{1}{4}$	0	0	3
—	—	20	0	0	$0\frac{1}{4}$	0	0	$1\frac{1}{2}$	0	0	3	0	0	$4\frac{1}{2}$	0	0	6
—	—	30	0	0	$1\frac{8}{1000}$	0	0	$2\frac{1}{4}$	0	0	$4\frac{1}{2}$	0	0	$6\frac{1}{4}$	0	0	9
—	1	—	0	0	$1\frac{1}{2}$	0	0	3	0	0	6	0	0	9	0	0	10
—	2	—	0	0	3	0	0	6	0	0	10	0	0	16	0	0	20
—	3	—	0	0	$4\frac{1}{2}$	0	0	9	0	0	16	0	0	23	0	0	30
1	—	—	0	0	6	0	0	10	0	0	20	0	0	30	0	0	40
2	—	—	0	1	0	0	0	20	0	0	40	0	0	60	0	0	80
3	—	—	0	1	6	0	0	30	0	0	60	0	0	90	0	0	120
4	—	—	0	2	0	0	0	40	0	0	80	0	0	120	0	0	160
5	—	—	0	2	6	0	0	50	0	0	100	0	0	150	0	0	100
6	—	—	0	3	0	0	0	60	0	0	120	0	0	180	0	0	140
7	—	—	0	3	6	0	0	70	0	0	140	0	0	110	0	0	180
8	—	—	0	4	0	0	0	80	0	0	160	0	0	140	0	0	120
9	—	—	0	4	6	0	0	90	0	0	180	0	0	170	0	0	160
10	—	—	0	5	0	0	0	100	0	0	100	0	0	110	0	0	200
20	—	—	0	10	0	1	0	0	200	0	0	300	0	0	400	0	0
30	—	—	0	15	0	1	10	0	300	0	0	410	0	0	600	0	0
40	—	—	1	0	0	2	0	0	400	0	0	600	0	0	800	0	0
50	—	—	1	5	0	2	10	0	500	0	0	710	0	0	1000	0	0
60	—	—	1	10	0	3	0	0	600	0	0	900	0	0	1200	0	0

Quantity of Land.			At 5s. per Acre.			At 6s. per Acre.			At 7s. per Acre.			At 8s. per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	0 $\frac{1}{4}$ $\frac{8}{10}$	0	0	0 $\frac{1}{4}$ $\frac{7}{10}$	0	0	0 $\frac{1}{2}$ $\frac{1}{10}$	0	0	0 $\frac{1}{2}$ $\frac{6}{10}$
—	—	2	0	0	0 $\frac{3}{4}$	0	0	0 $\frac{1}{4}$ 9	0	0	1 3	0	0	1 12
—	—	3	0	0	1 8	0	0	1 $\frac{1}{4}$ 6	0	0	1 $\frac{1}{4}$ 4	0	0	1 $\frac{3}{4}$ 3
—	—	4	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{3}{4}$ 3	0	0	2 6	0	0	2 $\frac{1}{4}$ 9
—	—	5	0	0	1 $\frac{1}{2}$ 8	0	0	2 $\frac{1}{4}$	0	0	2 $\frac{1}{2}$ 8	0	0	3
—	—	6	0	0	2 $\frac{1}{4}$	0	0	2 $\frac{1}{2}$ 12	0	0	3 9	0	0	3 $\frac{1}{2}$ 6
—	—	7	0	0	2 $\frac{1}{2}$ 8	0	0	3 9	0	0	3 $\frac{1}{2}$ 11	0	0	4 12
—	—	8	0	0	3	0	0	3 $\frac{1}{2}$ 6	0	0	4 12	0	0	4 $\frac{1}{2}$ 3
—	—	9	0	0	3 $\frac{1}{4}$ 8	0	0	4 3	0	0	4 $\frac{1}{2}$ 14	0	0	5 $\frac{1}{4}$ 9
—	—	10	0	0	3 $\frac{3}{4}$	0	0	4 $\frac{1}{2}$	0	0	5 $\frac{1}{4}$	0	0	6
—	—	20	0	0	7 $\frac{1}{2}$	0	0	9	0	0	10 $\frac{1}{2}$	0	1	0
—	—	30	0	0	11 $\frac{1}{4}$	0	1	1 $\frac{1}{2}$	0	1	3 $\frac{1}{4}$	0	1	6
—	1	—	0	1	3	0	1	6	0	1	9	0	2	0
—	2	—	0	2	6	0	3	0	0	3	6	0	4	0
—	3	—	0	3	9	0	4	6	0	5	3	0	6	0
1	—	—	0	5	0	0	6	0	0	7	0	0	8	0
2	—	—	0	10	0	0	12	0	0	14	0	0	16	0
3	—	—	0	15	0	0	18	0	1	1	0	1	4	0
4	—	—	1	0	0	1	4	0	1	8	0	1	12	0
5	—	—	1	5	0	1	10	0	1	15	0	2	0	0
6	—	—	1	10	0	1	16	0	2	2	0	2	8	0
7	—	—	1	15	0	2	2	0	2	9	0	2	16	0
8	—	—	2	0	0	2	8	0	2	16	0	3	4	0
9	—	—	2	5	0	2	14	0	3	3	0	3	12	0
10	—	—	2	10	0	3	0	0	3	10	0	4	0	0
20	—	—	5	0	0	6	0	0	7	0	0	8	0	0
30	—	—	7	10	0	9	0	0	10	10	0	12	0	0
40	—	—	10	0	0	12	0	0	14	0	0	16	0	0
50	—	—	12	10	0	15	0	0	17	10	0	20	0	0
60	—	—	15	0	0	18	0	0	21	0	0	24	0	0

Quantity of Land.			At 9s. per Acre.		At 10s. per Acre.		At 11s. per Acre.			At 12s. per Acre.				
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	0 $\frac{1}{2}$	0	0	0 $\frac{3}{4}$	0	0	0 $\frac{3}{4}$	0	0	0 $\frac{3}{4}$
—	—	2	0	0	1 $\frac{1}{4}$	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{3}{4}$
—	—	3	0	0	2	0	0	2 $\frac{1}{4}$	0	0	2 $\frac{1}{4}$	0	0	2 $\frac{1}{2}$
—	—	4	0	0	2 $\frac{1}{2}$	0	0	3	0	0	3 $\frac{1}{4}$	0	0	3 $\frac{1}{2}$
—	—	5	0	0	3 $\frac{1}{2}$	0	0	3 $\frac{3}{4}$	0	0	4	0	0	4 $\frac{1}{2}$
—	—	6	0	0	4	0	0	4 $\frac{1}{2}$	0	0	4 $\frac{3}{4}$	0	0	5 $\frac{1}{4}$
—	—	7	0	0	4 $\frac{1}{2}$	0	0	5 $\frac{1}{4}$	0	0	5 $\frac{3}{4}$	0	0	6 $\frac{1}{2}$
—	—	8	0	0	5 $\frac{1}{4}$	0	0	6	0	0	6 $\frac{1}{2}$	0	0	7
—	—	9	0	0	6	0	0	6 $\frac{3}{4}$	0	0	7 $\frac{1}{4}$	0	0	8
—	—	10	0	0	6 $\frac{3}{4}$	0	0	7 $\frac{1}{2}$	0	0	8 $\frac{1}{4}$	0	0	9
—	—	20	0	1	1 $\frac{1}{4}$	0	1	3	0	1	4 $\frac{1}{2}$	0	1	6
—	—	30	0	1	8	0	1	10 $\frac{1}{2}$	0	2	0 $\frac{1}{4}$	0	2	3
—	1	—	0	2	3	0	2	6	0	2	9	0	3	0
—	2	—	0	4	6	0	5	0	0	5	6	0	6	0
—	3	—	0	6	9	0	7	6	0	8	3	0	9	0
1	—	—	0	9	0	0	10	0	0	11	0	0	12	0
2	—	—	0	18	0	1	0	0	1	2	0	1	4	0
3	—	—	1	7	0	1	10	0	1	13	0	1	16	0
4	—	—	1	16	0	2	0	0	2	4	0	2	8	0
5	—	—	2	5	0	2	10	0	2	15	0	3	0	0
6	—	—	2	14	0	3	0	0	3	6	0	3	12	0
7	—	—	3	3	0	3	10	0	3	17	0	4	4	0
8	—	—	3	12	0	4	0	0	4	8	0	4	16	0
9	—	—	4	1	0	4	10	0	4	19	0	5	8	0
10	—	—	4	10	0	5	0	0	5	10	0	6	0	0
20	—	—	9	0	0	10	0	0	11	0	0	12	0	0
30	—	—	13	10	0	15	0	0	16	10	0	18	0	0
40	—	—	18	0	0	20	0	0	22	0	0	24	0	0
50	—	—	22	10	0	25	0	0	27	10	0	30	0	0
60	—	—	27	0	0	30	0	0	33	0	0	36	0	0

From 1 Fall to 60 Acres, and from 15s. to 16s. per Acre. 191

Quantity of Land.			At 13s. per Acre.			At 14s. per Acre.			At 15s. per Acre.			At 16s. per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	0 $\frac{1}{4}$	0	0	1	0	0	1	0	0	1
—	—	2	0	0	1 $\frac{1}{4}$	0	0	2	0	0	2 $\frac{1}{4}$	0	0	2 $\frac{1}{4}$
—	—	3	0	0	2 $\frac{1}{4}$	0	0	3	0	0	3 $\frac{1}{4}$	0	0	3 $\frac{1}{4}$
—	—	4	0	0	3 $\frac{1}{4}$	0	0	4	0	0	4 $\frac{1}{4}$	0	0	4 $\frac{1}{4}$
—	—	5	0	0	4 $\frac{1}{4}$	0	0	5 $\frac{1}{4}$	0	0	5 $\frac{1}{4}$	0	0	6
—	—	6	0	0	5 $\frac{1}{4}$	0	0	6 $\frac{1}{4}$	0	0	6 $\frac{1}{4}$	0	0	7
—	—	7	0	0	7	0	0	7 $\frac{1}{4}$	0	0	7 $\frac{1}{4}$	0	0	8 $\frac{1}{4}$
—	—	8	0	0	7 $\frac{1}{4}$	0	0	8 $\frac{1}{4}$	0	0	9	0	0	9 $\frac{1}{4}$
—	—	9	0	0	8 $\frac{1}{4}$	0	0	9 $\frac{1}{4}$	0	0	10	0	0	10 $\frac{1}{4}$
—	—	10	0	0	9 $\frac{1}{4}$	0	0	10 $\frac{1}{4}$	0	0	11 $\frac{1}{4}$	0	1	0
—	—	20	0	1	7 $\frac{1}{2}$	0	1	9	0	1	10 $\frac{1}{2}$	0	2	0
—	—	30	0	2	5 $\frac{1}{4}$	0	2	7 $\frac{1}{2}$	0	2	9 $\frac{1}{4}$	0	3	0
—	1	—	0	3	3	0	3	6	0	3	9	0	4	0
—	2	—	0	6	6	0	7	0	0	7	6	0	8	0
—	3	—	0	9	9	0	10	6	0	11	3	0	12	0
1	—	—	0	13	0	0	14	0	0	15	0	0	16	0
2	—	—	1	6	0	1	8	0	1	10	0	1	12	0
3	—	—	1	19	0	2	2	0	2	5	0	2	8	0
4	—	—	2	12	0	2	16	0	3	0	0	3	4	0
5	—	—	3	5	0	3	10	0	3	15	0	4	0	0
6	—	—	3	18	0	4	4	0	4	10	0	4	16	0
7	—	—	4	11	0	4	18	0	5	5	0	5	12	0
8	—	—	5	4	0	5	12	0	6	0	0	6	8	0
9	—	—	5	17	0	6	6	0	6	15	0	7	4	0
10	—	—	6	10	0	7	0	0	7	10	0	8	0	0
20	—	—	13	0	0	14	0	0	15	0	0	16	0	0
30	—	—	19	10	0	21	0	0	22	10	0	24	0	0
40	—	—	26	0	0	28	0	0	30	0	0	32	0	0
50	—	—	32	10	0	35	0	0	37	10	0	40	0	0
60	—	—	39	0	0	42	0	0	45	0	0	48	0	0

192 From 1 Fall to 60 Acres, and from 17s. to L. 1 per Acre.

Quantity of Land.			At 17s. per Acre.				At 18s. per Acre.				At 19s. per Acre.				At L. 1 per Acre.		
A.	R.	F	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	2 $\frac{1}{4}$	0	0	1 $\frac{1}{4}$	0	0	1 $\frac{1}{4}$	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{1}{2}$
—	—	2	0	0	2 $\frac{1}{2}$	0	0	2 $\frac{1}{2}$	0	0	2 $\frac{1}{2}$	0	0	3	0	0	3
—	—	3	0	0	3 $\frac{1}{4}$	0	0	4	0	0	4 $\frac{1}{4}$	0	0	4 $\frac{1}{2}$	0	0	4 $\frac{1}{2}$
—	—	4	0	0	5	0	0	5 $\frac{1}{4}$	0	0	5 $\frac{1}{2}$	0	0	6	0	0	6
—	—	5	0	0	6 $\frac{1}{4}$	0	0	6 $\frac{3}{4}$	0	0	7	0	0	7 $\frac{1}{2}$	0	0	7 $\frac{1}{2}$
—	—	6	0	0	7 $\frac{1}{2}$	0	0	8	0	0	8 $\frac{1}{2}$	0	0	9	0	0	9
—	—	7	0	0	8 $\frac{3}{4}$	0	0	9 $\frac{1}{4}$	0	0	9 $\frac{3}{4}$	0	0	10 $\frac{1}{2}$	0	0	10 $\frac{1}{2}$
—	—	8	0	0	10	0	0	10 $\frac{3}{4}$	0	0	11 $\frac{1}{4}$	0	0	11	0	1	0
—	—	9	0	0	11 $\frac{1}{4}$	0	1	0	0	1	0 $\frac{3}{4}$	0	1	1 $\frac{1}{2}$	0	1	1 $\frac{1}{2}$
—	—	10	0	1	0 $\frac{3}{4}$	0	1	1 $\frac{1}{2}$	0	1	2 $\frac{1}{4}$	0	1	3	0	1	3
—	—	20	0	2	1 $\frac{1}{2}$	0	2	3	0	2	4 $\frac{1}{2}$	0	2	6	0	2	6
—	—	30	0	3	2 $\frac{1}{4}$	0	3	4 $\frac{1}{2}$	0	3	6 $\frac{1}{4}$	0	3	9	0	3	9
—	1	—	0	4	3	0	4	6	0	4	9	0	4	0	5	0	0
—	2	—	0	8	6	0	9	0	0	9	6	0	9	0	10	0	0
—	3	—	0	12	9	0	13	6	0	14	3	0	15	0	0	0	0
1	—	—	0	17	0	0	18	0	0	19	0	1	0	0	0	0	0
2	—	—	1	14	0	1	16	0	1	18	0	2	0	0	0	0	0
3	—	—	2	11	0	2	14	0	2	17	0	3	0	0	0	0	0
4	—	—	3	8	0	3	12	0	3	16	0	4	0	0	0	0	0
5	—	—	4	5	0	4	10	0	4	15	0	5	0	0	0	0	0
6	—	—	5	2	0	5	8	0	5	14	0	6	0	0	0	0	0
7	—	—	5	19	0	6	6	0	6	13	0	7	0	0	0	0	0
8	—	—	6	16	0	7	4	0	7	12	0	8	0	0	0	0	0
9	—	—	7	13	0	8	2	0	8	11	0	9	0	0	0	0	0
10	—	—	8	10	0	9	0	0	9	10	0	10	0	0	0	0	0
20	—	—	17	0	0	18	0	0	19	0	0	20	0	0	0	0	0
30	—	—	25	10	0	27	0	0	28	10	0	30	0	0	0	0	0
40	—	—	34	0	0	36	0	0	38	0	0	40	0	0	0	0	0
50	—	—	42	10	0	45	0	0	47	10	0	50	0	0	0	0	0
60	—	—	51	0	0	54	0	0	57	0	0	60	0	0	0	0	0

Quantity of Land			At L. 2 per Acre.			At L. 3 per Acre.			At L. 4 per Acre.			At L. 5 per Acre.			At L. 6 per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	3	0	0	4 ¹ / ₂	0	0	6	0	0	7 ¹ / ₂	0	0	9
—	—	2	0	0	6	0	0	9	0	1	0	0	1	3	0	1	6
—	—	3	0	0	9	0	1	1 ¹ / ₂	0	1	6	0	1	10 ⁰ / ₁₀	0	2	3
—	—	4	0	1	0	0	1	6	0	2	0	0	2	6	0	3	0
—	—	5	0	1	3	0	1	10 ¹ / ₂	0	2	6	0	3	1 ¹ / ₂	0	3	9
—	—	6	0	1	6	0	2	3	0	3	0	0	3	9	0	4	6
—	—	7	0	1	9	0	2	7 ¹ / ₂	0	3	6	0	4	4 ¹ / ₂	0	5	3
—	—	8	0	2	0	0	3	0	0	4	0	0	5	0	0	6	0
—	—	9	0	2	3	0	3	4 ¹ / ₂	0	4	6	0	5	7 ¹ / ₂	0	6	9
—	—	10	0	2	6	0	3	9	0	5	0	0	6	3	0	7	6
—	—	20	0	5	0	0	7	6	0	10	0	0	12	6	0	15	0
—	—	30	0	7	6	0	11	3	0	15	0	0	18	9	1	2	6
—	1	—	0	10	0	0	15	0	1	0	0	1	5	0	1	10	0
—	2	—	1	0	0	1	10	0	2	0	0	2	10	0	3	0	0
—	3	—	1	10	0	2	5	0	3	0	0	3	15	0	4	10	0
1	—	—	2	0	0	3	0	0	4	0	0	5	0	0	6	0	0
2	—	—	4	0	0	6	0	0	8	0	0	10	0	0	12	0	0
3	—	—	6	0	0	9	0	0	12	0	0	15	0	0	18	0	0
4	—	—	8	0	0	12	0	0	16	0	0	20	0	0	24	0	0
5	—	—	10	0	0	15	0	0	20	0	0	25	0	0	30	0	0
6	—	—	12	0	0	18	0	0	24	0	0	30	0	0	36	0	0
7	—	—	14	0	0	21	0	0	28	0	0	35	0	0	42	0	0
8	—	—	16	0	0	24	0	0	32	0	0	40	0	0	48	0	0
9	—	—	18	0	0	27	0	0	36	0	0	45	0	0	54	0	0
10	—	—	20	0	0	30	0	0	40	0	0	50	0	0	60	0	0
20	—	—	40	0	0	60	0	0	80	0	0	100	0	0	120	0	0
30	—	—	60	0	0	90	0	0	120	0	0	150	0	0	180	0	0
40	—	—	80	0	0	120	0	0	160	0	0	200	0	0	240	0	0
50	—	—	100	0	0	150	0	0	200	0	0	250	0	0	300	0	0
60	—	—	120	0	0	180	0	0	240	0	0	300	0	0	360	0	0

194 From 1 Fall to 60 Acres, and from L. 7 to L. 20 per Acre.

Quantity of Land.			At L. 7 per Acre.			At L. 8 per Acre.			At L. 9 per Acre.			At L. 10 per Acre.			At L. 20 per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	10 ¹ / ₂	0	1	0	0	1	1 ¹ / ₂	0	1	3	0	2	6
—	—	2	0	1	9	0	2	0	0	2	3	0	2	6	0	5	0
—	—	3	0	2	7 ¹ / ₂	0	3	0	0	3	4 ¹ / ₂	0	3	9	0	7	6
—	—	4	0	3	6	0	4	0	0	4	6	0	5	0	0	10	0
—	—	5	0	4	4 ¹ / ₂	0	5	0	0	5	7 ¹ / ₂	0	6	3	0	12	6
—	—	6	0	5	3	0	6	0	0	6	9	0	7	6	0	15	0
—	—	7	0	6	1 ¹ / ₂	0	7	0	0	7	10 ¹ / ₂	0	8	9	0	17	6
—	—	8	0	7	0	0	8	0	0	9	0	0	10	0	1	0	0
—	—	9	0	7	10 ¹ / ₂	0	9	0	0	10	1 ¹ / ₂	0	11	3	1	2	0
—	—	10	0	8	9	0	10	0	0	11	3	0	12	6	1	5	0
—	—	20	0	17	6	1	0	0	1	2	6	1	5	0	2	10	6
—	—	30	1	6	3	1	10	0	1	13	9	1	17	6	3	15	0
—	1	—	1	15	0	2	0	0	2	5	0	2	10	0	5	0	0
—	2	—	3	10	0	4	0	0	4	10	0	5	0	0	10	0	0
—	3	—	5	5	0	6	0	0	6	15	0	7	10	0	15	0	0
1	—	—	7	0	0	8	0	0	9	0	0	10	0	0	20	0	0
2	—	—	14	0	0	16	0	0	18	0	0	20	0	0	40	0	0
3	—	—	21	0	0	24	0	0	27	0	0	30	0	0	60	0	0
4	—	—	28	0	0	32	0	0	36	0	0	40	0	0	80	0	0
5	—	—	35	0	0	40	0	0	45	0	0	50	0	0	100	0	0
6	—	—	42	0	0	48	0	0	54	0	0	60	0	0	120	0	0
7	—	—	49	0	0	56	0	0	63	0	0	70	0	0	140	0	0
8	—	—	56	0	0	64	0	0	72	0	0	80	0	0	160	0	0
9	—	—	63	0	0	72	0	0	81	0	0	90	0	0	180	0	0
10	—	—	70	0	0	80	0	0	90	0	0	100	0	0	200	0	0
20	—	—	140	0	0	160	0	0	180	0	0	200	0	0	400	0	0
30	—	—	210	0	0	240	0	0	270	0	0	300	0	0	600	0	0
40	—	—	280	0	0	320	0	0	360	0	0	400	0	0	800	0	0
50	—	—	350	0	0	400	0	0	450	0	0	500	0	0	1000	0	0
60	—	—	420	0	0	480	0	0	540	0	0	600	0	0	1200	0	0

From 1 Fall to 60 Acres, and from L.50 to L.70 per Acre. 195

Quantity of Land.		At L.30 per Acre.			At L.40 per Acre.			At L.50 per Acre.			At L.60 per Acre.			At L.70 per Acre.			
A.	R.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.	
—	—	1	0	3	9	0	5	0	0	6	3	0	7	6	0	8	9
—	—	2	0	7	6	0	10	0	0	12	6	0	15	0	0	17	6
—	—	3	0	11	3	0	15	0	0	18	9	1	2	6	1	6	3
—	—	4	0	15	0	1	0	0	1	5	0	1	10	0	1	15	0
—	—	5	0	18	9	1	5	0	1	11	3	1	17	6	2	3	9
—	—	6	1	2	6	1	10	0	1	17	6	2	5	0	2	12	6
—	—	7	1	6	3	1	15	0	2	3	9	2	12	6	3	1	3
—	—	8	1	10	0	2	0	0	2	10	0	3	0	0	3	10	0
—	—	9	1	13	9	2	5	0	2	16	3	3	7	6	3	18	9
—	—	10	1	17	6	2	10	0	3	2	6	3	15	0	4	7	6
—	—	20	3	15	0	5	0	0	6	5	0	7	10	0	8	15	0
—	—	30	5	12	6	7	10	0	9	7	6	11	5	0	13	2	6
—	1	—	7	10	0	10	0	0	12	10	0	15	0	0	17	10	0
—	2	—	15	0	0	20	0	0	25	0	0	30	0	0	35	0	6
—	3	—	22	10	0	30	0	0	37	10	0	45	0	0	42	10	0
1	—	—	30	0	0	40	0	0	50	0	0	60	0	0	70	0	0
2	—	—	60	0	0	80	0	0	100	0	0	120	0	0	140	0	0
3	—	—	90	0	0	120	0	0	150	0	0	180	0	0	210	0	0
4	—	—	120	0	0	160	0	0	200	0	0	240	0	0	280	0	0
5	—	—	150	0	0	200	0	0	250	0	0	300	0	0	350	0	0
6	—	—	180	0	0	240	0	0	300	0	0	360	0	0	420	0	0
7	—	—	210	0	0	280	0	0	350	0	0	420	0	0	490	0	0
8	—	—	240	0	0	320	0	0	400	0	0	480	0	0	560	0	0
9	—	—	270	0	0	360	0	0	450	0	0	540	0	0	630	0	0
10	—	—	300	0	0	400	0	0	500	0	0	600	0	0	700	0	0
20	—	—	600	0	0	800	0	0	1000	0	0	1200	0	0	1400	0	0
30	—	—	900	0	0	1200	0	0	1500	0	0	1800	0	0	2100	0	0
40	—	—	1200	0	0	1600	0	0	2000	0	0	2400	0	0	2800	0	0
50	—	—	1500	0	0	2000	0	0	2500	0	0	3000	0	0	3500	0	0
60	—	—	1800	0	0	2400	0	0	3000	0	0	3600	0	0	4200	0	0

196 From 1 Fall to 60 Acres, and from L. 80 to L. 1600 per Acre.

Quantity of Lm l.			At L. 80 per Acre.			At L. 90 per Acre.			At L. 100 per Acre.			At L. 1000 per Acre.		
A.	R.	F.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	10	0	0	11	3	0	12	6	6	5	0
—	—	2	1	0	0	1	2	6	1	5	0	12	10	0
—	—	3	1	10	0	1	13	9	1	17	6	18	15	0
—	—	4	2	0	0	2	5	0	2	10	0	25	0	0
—	—	5	2	10	0	2	16	3	3	2	6	31	5	0
—	—	6	3	0	0	3	7	6	3	15	0	37	10	0
—	—	7	3	10	0	3	18	9	4	7	6	43	15	0
—	—	8	4	0	0	4	10	0	5	0	0	50	0	0
—	—	9	4	10	0	5	1	3	5	12	6	56	5	0
—	—	10	5	0	0	5	12	6	6	5	0	62	10	0
—	—	20	10	0	0	11	5	0	12	10	0	125	0	0
—	—	30	15	0	0	16	17	0	18	15	0	187	10	0
—	1	—	20	0	0	22	10	0	25	0	0	250	0	0
—	2	—	40	0	0	45	0	0	50	0	0	500	0	0
—	3	—	60	0	0	67	10	0	75	0	0	750	0	0
1	—	—	80	0	0	90	0	0	100	0	0	1000	0	0
2	—	—	160	0	0	180	0	0	200	0	0	2000	0	0
3	—	—	240	0	0	270	0	0	300	0	0	3000	0	0
4	—	—	320	0	0	360	0	0	400	0	0	4000	0	0
5	—	—	400	0	0	450	0	0	500	0	0	5000	0	0
6	—	—	480	0	0	540	0	0	600	0	0	6000	0	0
7	—	—	560	0	0	630	0	0	700	0	0	7000	0	0
8	—	—	640	0	0	720	0	0	800	0	0	8000	0	0
9	—	—	720	0	0	810	0	0	900	0	0	9000	0	0
10	—	—	800	0	0	900	0	0	1000	0	0	10000	0	0
20	—	—	1600	0	0	1800	0	0	2000	0	0	20000	0	0
30	—	—	2400	0	0	2700	0	0	3000	0	0	30000	0	0
40	—	—	3200	0	0	3600	0	0	4000	0	0	40000	0	0
50	—	—	4000	0	0	4500	0	0	5000	0	0	50000	0	0
60	—	—	4800	0	0	5400	0	0	6000	0	0	60000	0	●

TABLE shewing the Number of Days from any Day in one Month to the same Day in any other Month.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.
Jan.	365	334	306	275	245	214	184	153	122	92	61	31
Feb.	31	365	337	306	276	245	215	184	153	123	92	62
Mar.	59	28	365	334	304	273	243	212	181	151	120	90
Apr.	90	59	31	365	335	304	274	243	212	182	151	121
May.	120	89	61	30	365	334	304	273	242	212	141	151
June.	151	120	92	61	31	365	335	304	273	243	212	182
July.	181	150	122	91	61	30	365	334	303	273	242	212
Aug.	212	181	153	122	92	61	31	365	334	304	273	243
Sep.	243	212	184	153	123	92	62	31	365	335	304	274
Oct.	274	242	214	183	153	122	92	61	30	365	334	304
Nov.	304	273	245	214	184	153	123	92	61	31	365	335
Dec.	334	303	275	244	214	183	153	122	91	61	30	365

EXPLANATION of the above Table.—Suppose from the 3d August to the 5d of March. Look at the top for August, and the side for March; and where the square of meeting is you have the number of days, which is 212: but if it should be from the 5d of August to the 20th of March, you must add 17 days to 212, which makes 229 days.

TABLE for Computing Interest.

EXPLANATION.—Multiply the principal sum by the number of days, which you will find out by the preceding Table, and that product by the rate of interest; from this last product cut off the two last figures on the right hand: look for the remaining figures in the Table, and collect the sums answering to them, and their amount is the interest sought.

Example. What is the interest of £.546 for 100 days at 4 per cent.?

546 the principal
Multiply by 100 the number of days
54600
4 the rate of interest

Collect out of the Table 2184|00 cut off two figures, and collect the left hand figures out of the Table.

L. 2000 gives.....		£. 5		9		7		27
100 gives.....		0		5		5 ³ / ₄		01
80 gives.....		0		4		4 ¹ / ₂		41
4 gives.....		0		0		2 ¹ / ₂		52
The interest sought.....		£. 5	19	8	21			

Again; What is the interest of L.50 from the 1st of January to the 1st of November, at 5 *per cent.*? Look into the Table from January to November, and you will see 304 days.

50 the principal
Multiply by 304 number of days

200

150

15200

5 rate of interest

76000 cut off two figures, and collect the left hand figures out of the Table.

L. 700 gives.....	L. 1 18 4 $\frac{1}{2}$ 09
60 gives.....	0 3 3 $\frac{1}{2}$ 80
	<hr/>
The interest.....	L. 2 1 8 89

The above is so plain, that no more examples are necessary.

TABLE for Computing Interest from L. 1 to L. 900,000.

L.	s.	d.	*	L.	L.	s.	d.	*	L.	L.	s.	d.	*	
1	0	0	0 $\frac{1}{2}$	63	100	0	5	5 $\frac{3}{4}$	01	10,000	27	7	11 $\frac{1}{4}$	36
2	0	0	1 $\frac{1}{4}$	26	200	0	10	11 $\frac{1}{2}$	02	20,000	54	15	10 $\frac{5}{2}$	73
3	0	0	1 $\frac{3}{4}$	89	300	0	16	5 $\frac{1}{4}$	04	30,000	82	3	10	10
4	0	0	2 $\frac{1}{2}$	52	400	1	1	11	05	40,000	109	11	9 $\frac{1}{4}$	47
5	0	0	3 $\frac{1}{4}$	15	500	1	7	4 $\frac{3}{4}$	06	50,000	136	19	8 $\frac{1}{2}$	84
6	0	0	3 $\frac{3}{4}$	78	600	1	12	10 $\frac{1}{2}$	08	60,000	164	7	8	21
7	0	0	4 $\frac{1}{2}$	41	700	1	18	4 $\frac{1}{4}$	09	70,000	191	5	7 $\frac{1}{4}$	58
8	0	0	5 $\frac{1}{4}$	04	800	2	3	10 $\frac{3}{4}$	10	80,000	219	3	6 $\frac{1}{2}$	95
9	0	0	5 $\frac{3}{4}$	67	900	2	9	3 $\frac{1}{4}$	02	90,000	246	11	6	32
10	0	0	6 $\frac{1}{2}$	30	1000	2	14	9 $\frac{1}{2}$	13	100,000	273	19	5 $\frac{1}{4}$	69
20	0	1	1	60	2000	5	9	7	27	200,000	547	18	10 $\frac{3}{4}$	39
30	0	1	7 $\frac{1}{2}$	90	3000	8	4	4 $\frac{1}{2}$	41	300,000	821	18	4 $\frac{1}{4}$	09
40	0	2	2 $\frac{1}{4}$	20	4000	10	19	2	54	400,000	1095	17	9 $\frac{1}{2}$	79
50	0	2	8 $\frac{3}{4}$	50	5000	13	13	11 $\frac{1}{2}$	68	500,000	1369	17	3	49
60	0	3	3 $\frac{1}{2}$	80	6000	16	8	9	82	600,000	1643	16	8 $\frac{1}{2}$	19
70	0	3	10	10	7000	19	3	6 $\frac{1}{2}$	95	700,000	1917	16	13 $\frac{3}{4}$	89
80	0	4	4 $\frac{1}{2}$	41	8000	21	18	4 $\frac{1}{2}$	09	800,000	2191	15	7 $\frac{1}{4}$	48
90	0	4	11	71	9000	24	3	13 $\frac{1}{4}$	23	900,000	2465	15	0 $\frac{3}{4}$	28

* 100 Parts of a Farthing.

TABLE shewing the Number of Cubic Feet there are in One Running Yard, in Cutting a Ditch or Drain from One Foot Deep to Six Feet, and from One Foot Wide to Six Feet.

Wide. Ft. In.	Deep Ft. In.		Deep Ft. In.		Deep Ft. In.		Deep Ft. In.		Deep Ft. In.		Deep Ft. In.		Deep Ft. In.										
	1	-	1	6	2	-	2	6	3	-	3	6	4	-	4	6	5	-	5	6	6	-	
1	-	3	-	4	6	6	-	7	6	9	-	10	6	12	-	13	6	15	-	16	6	18	-
1	6	4	6	6	9	9	-	11	3	13	6	15	9	18	-	20	3	22	6	24	9	27	-
2	-	6	-	9	-	12	-	15	-	18	-	21	-	24	-	27	-	30	-	33	-	36	-
2	6	7	6	11	3	15	-	18	9	22	6	26	3	30	-	33	9	37	6	41	3	45	-
3	-	9	-	13	6	18	-	22	6	27	-	31	6	36	-	40	6	45	-	49	6	54	-
3	6	10	6	15	9	21	-	26	3	31	6	36	9	42	-	47	3	52	6	57	9	63	-
4	-	12	-	18	-	24	-	30	-	36	-	42	-	48	-	54	-	60	-	66	-	72	-
4	6	13	6	20	3	27	-	33	9	40	6	47	3	54	-	60	9	67	9	74	3	81	-
5	-	15	-	22	6	30	-	37	6	45	-	52	6	60	-	67	6	75	-	82	6	90	-
5	6	16	6	24	9	33	-	41	3	49	6	57	9	66	-	74	3	82	6	90	9	99	-
6	-	18	-	27	-	36	-	45	-	54	-	63	-	72	-	81	-	90	-	99	-	108	-

EXPLANATION.—Suppose you cut a ditch or drain, the width at the bottom 1 foot, and the width at the top 5 feet, and the medium depth 4 feet, and the length 174 yards, and you are to give 2d. per cubic yard —What will 124 running yards cost?

You first add 1 foot for the width at the bottom and 5 feet for the width at the top together; which makes 6 feet: the half of which is 3 feet for a mean width. You then look into the Table for 3 feet

wide, and in the column under 4 feet deep, and opposite 3 feet, you will find 36 feet; which is the number of cubic feet in one running yard of cutting. Then multiply 36 by 174, which is 6264 cubic feet; which if you divide by 27, the number of cubic feet in a yard, you will have 232 cubic yards; which, at 2d. *per* yard, amounts to L. 1, 18s. 8d.

The example worked thus:

174 yards the running length
36 cubic feet in one yard

———
1044
522

Divide by the number of ———

27)6264(232 the number of cubic yards in 174
54 running yards, at 2d. *per* yard,
amounts to L. 1 : 18 : 8.

———
86
81
———
54
54

Another example will be sufficient to illustrate the Table.

Suppose a ditch 4 feet wide at the bottom and 8 feet wide at the top, and the medium depth 5 feet 6 inches. Add 4 feet and 8 feet together; which is 12 feet: the half of which is 6 feet for a medium width. Look into the Table for 6 feet wide, and in the column of 5 feet

6 inches deep, and opposite 6 feet, you will find 99 feet; which is the number of cubic feet in one running yard.

Suppose you have cut 500 running yards—What will the ditch cost at 4d. per cubic yard?

The example worked thus :

500 running yards
Multiply by 99 the number of cubic feet in one
running yard

4500

4500

Divide by the number of —————

cubic feet in a yard 27)49500(1833 cubic yards at 4d. amounts
27 to L. 30 : 11 : 1.

225

216

90

81

90

81

9

All other questions are resolved in the same way, and need no more examples.

*TABLE for knowing what Number of THORNS to Purchase
for Inclosing Land from 1 Ell in Length to 10,000.*

EXPLANATION.—The distance one plant is supposed to be placed from another is set down on the top; the length is set down in the left hand column; and the number of thorns are set down in the other columns under the distance that one thorn is supposed to be placed from another.

Suppose you have a new hedge to make, 90 yards long, and the thorns to be placed at 3 inches distant from one another. Look down the column where 3 inches is marked at the top of the Table till you are opposite 90, and you will find 1110; the number of thorns wanted for 90 ells in length at 3 inches distant from thorn to thorn. All others are found out in the same way, and need no farther illustration.

TABLE to know the number of Quicksets or Thorns to order from 1 to 10,000 Ells
in Length, and from 1 to 10 Inches Distant from Thorn to Thorn.

Ells Long.	1 Inch	2 Inches	3 Inches	4 Inches	5 Inches	6 Inches	7 Inches	8 Inches	9 Inches	10 Inches
1	37	19	13	10	8	7	6	5	4	4
2	74	37	24	19	15	13	11	10	8	8
3	111	56	37	28	22	19	16	14	13	12
4	148	74	47	37	30	25	21	19	17	15
5	185	93	62	47	37	31	27	24	21	19
6	222	111	74	56	45	37	32	29	25	23
7	259	130	87	65	52	44	37	32	29	26
8	296	148	99	74	60	50	44	37	33	30
9	333	165	111	84	67	56	48	42	37	34
10	370	185	124	93	74	62	53	47	42	37
20	740	370	237	185	148	124	106	93	83	74
30	1110	555	370	275	222	185	159	139	124	111
40	1480	740	470	370	296	247	212	185	165	148
50	1850	925	617	463	370	309	265	232	206	185
60	2220	1110	740	555	445	370	318	278	247	222
70	2590	1295	864	648	518	432	370	324	288	259
80	2960	1480	987	740	592	494	423	370	329	296
90	3330	1650	1110	833	666	555	476	417	370	333
100	3700	1850	1234	925	740	617	529	463	412	370
200	7400	3700	2367	1850	1480	1234	1057	926	823	740
300	11100	5550	3700	2775	2220	1850	1596	1388	1234	1110
400	14800	7400	4700	3700	2960	2467	2115	1850	1645	1480
500	18500	9250	6167	4623	3700	3085	2643	2313	2057	1850
600	22200	11100	7400	5550	4450	3700	3172	2775	2467	2220
700	25900	12950	8640	6475	5180	4317	3700	3238	2878	2590
800	29600	14800	9867	7400	5920	4934	4229	3700	3289	2960
900	33300	16500	11100	8325	6660	5550	5000	4163	3700	3330
1000	37000	18500	12334	9250	7400	6167	5286	4625	4111	3700
2000	74000	37000	23667	18500	14800	12334	10567	9253	8223	7400
3000	111000	55500	37000	27750	22200	18500	15958	13875	12334	11100
4000	148000	74000	47000	37000	29600	24667	21143	18500	16445	14800
5000	185000	92500	61670	46223	37000	30844	26427	23125	20556	18500
6000	222000	111000	74000	55500	44500	37000	31714	27750	24666	22200
7000	259000	129500	86400	64750	51800	43167	37000	32375	28778	25900
8000	296000	148000	98667	74000	59200	49334	42286	37000	32888	29600
9000	333000	165000	111000	83250	66600	55500	47572	41623	37000	33300
10000	370000	185000	123333	92500	74000	61667	52857	46250	41111	37000

TABLE for turning SCOTCH CHAINS and LINKS into ELLS,
and also ENGLISH CHAINS and LINKS into the same Mea-
sure.

THIS Table will be found useful to those gentlemen that may have a chain by them, whether Scotch or English, as the distances may be taken with the chain, and turned into ells; which will save them the trouble of getting either a piece of tape, cord, or a chain, made into ells.

Example. If you measure the length of 11 chains and 50 links with a Scotch chain of 74 feet long.

	Ells.
Look into the Table for 10 chains, and you will find.....	240
Opposite to 1 chain.....	24
50 links.....	12

The number of ells sought.....276

Example 2d. If you measure with an English chain 36 chains and 6 links in length.

	Ells.	Ft.	In.
Look into the Table for 30 chains, and opposite to it is	642	1	6
Opposite to 6 chains.....	128	1	6
6 links.....	1	—	10

The ells sought.....772 — 10

N. B. Carry 1 for every 12 inches to the feet, and 3 from the feet to the ells.

TABLE for knowing how many ELLS are in SCOTCH CHAINS. TABLE for knowing how many ELLS are in ENGLISH CHAINS.

Scotch Measure.			Scotch Measure.			English Measure.			English Measure.		
Scotch Ells.			Scotch Ells.			Scotch Ells.			Scotch Ells.		
ch. links.	E.	Ft. In.	ch. links.	E.	Ft. In.	ch. links.	E.	Ft. In.	ch. links.	E.	Ft. In.
— 1	—	— 9	1 —	24	— —	— 1	—	— 8	1 —	21	1 3
— 2	—	1 5	2 —	48	— —	— 2	—	1 3	2 —	42	2 5
— 3	—	2 2	3 —	72	— —	— 3	—	1 11	3 —	64	— 8
— 4	—	2 10	4 —	96	— —	— 4	—	2 7	4 —	85	1 10
— 5	1	— 7	5 —	120	— —	— 5	1	— 3	5 —	107	— 1
— 6	1	1 4	6 —	144	— —	— 6	1	— 10	6 —	128	1 6
— 7	1	2 1	7 —	168	— —	— 7	1	1 6	7 —	149	2 6
— 8	1	2 9	8 —	192	— —	— 8	1	2 —	8 —	171	— 9
— 9	2	— 5	9 —	216	— —	— 9	1	2 6	9 —	192	2 —
— 10	2	1 2	10 —	240	— —	— 10	2	— 5	10 —	214	— 2
— 20	4	2 5	20 —	480	— —	— 20	4	— 10	20 —	428	— 4
— 30	7	— 7	30 —	720	— —	— 30	6	1 3	30 —	642	1 6
— 40	9	1 10	40 —	960	— —	— 40	8	1 8	40 —	856	— 8
— 50	12	— —	50 —	1200	— —	— 50	10	2 1	50 —	1070	— 10
— 60	14	1 2	60 —	1440	— —	— 60	12	2 7	60 —	1284	— 11
— 70	16	2 5	70 —	1680	— —	— 70	15	— 6	70 —	1498	1 2
— 80	19	— 7	80 —	1920	— —	— 80	17	— 5	80 —	1712	1 4
— 90	21	1 10	90 —	2160	— —	— 90	19	— 10	90 —	1926	1 6

TABLES OF SOLID MEASURE, for finding by Inspection the Contents of any Piece of Timber, the Length and Side of the Square equal being known, from 6 to 20 Inches Thick, and from 1 Foot to 42 Feet Long.

THESE Tables are so plain and easy, that the solidity is found in them by inspection only. I trust the Public will not take it amiss for saying, they comprehend in *seven* pages as much as some authors have almost filled a volume with. Although they do not extend to six or eight decimal parts, yet they extend to inches and halves, which is near enough for measuring rough timber, either cut down or standing; and, from what I can learn, wood-merchants seldom measure nearer than half of an inch.

The Tables need little explanation, as every person knows that the length and girth of the tree must be taken before the contents can be known. I shall insert what way the girth or circumference ought to be taken. Suppose a tree, from the bottom to the top, tapers equally all the way. Take the girth or circumference in the middle, and divide it by 4, which gives what is called, in customary measure, *the side of the square*; that is to say, when the bark is cut off the tree and squared, it has four equal sides; and the girth being taken in the middle of the tree, gives a mean thickness, viz. it is not so thick in the middle as at the bottom, but it is thicker in the middle than at the top or small end. But many trees are very unequal in thickness, particularly

oak: in that case, it will be absolutely necessary to take the girth or circumference three, four, five, or six times; add all the circumferences or girths together that are taken, and divide the amount by the number of girths you have measured round the tree. Suppose you have taken 5 girths; dividing by 5 gives a mean girth, and dividing the mean girth by 4 gives the side or square. If you take 6 girths, divide by 6, or any other number, either more or less; and be sure to divide by whatever number of times you have measured round the tree; but be particularly attentive that the different girths are taken at equal distances from one another, and that you divide the mean girth by 4.

The side of the square, or one-fourth of the girth, is marked on the left hand side of the Tables, and the length at the top: the solid contents are found at the angle of intersection. For example, if you have measured a tree, the length of which is 19 feet, and the girth 5 feet or 60 inches, the one-fourth of which is 15 inches for the side of the square: Then look at the top of the Table for 19 feet, and in that column, opposite to 15 inches in the side of the square, you will see that there are 29 feet $8\frac{1}{4}$ inches of solid wood in the tree.

It will sometimes happen that you may have a tree to measure that is both longer and thicker than any of the dimensions inserted in the Tables. In that case, I will give one general rule by which it may be calculated. Suppose the mean girth or circumference to be 192 inches, and the length 50 feet long. Multiply the fourth part of the girth, which is 48, into itself, and the product by the number of inches there are in 50 feet, viz. 600; and divide the product by 1728, the number of cubical inches in a cubic foot, which will give you the solid measure of the tree.

4)192(48 side

48

384

192

2304

600 inches in 50 feet

1728)1382400(800 the answer, being cubic feet

13824

000

Or, suppose a tree 54 feet long, and the one-fourth of the girth 60 inches—How many solid feet?

54

54

} the side multiplied by itself

216

270

2916

648 the inches in 54 feet

23328

11664

17496

Ft. In.

1728)1889568(1093 $5\frac{1}{4}$ the answer.

The foregoing is for measuring round and square timber; but it may be supposed that a piece of wood or stone is broader than it is thick. In that case, multiply the breadth by the thickness, and then by the length. Suppose a plank of wood or stone to be 14 inches thick, 18 inches broad, and 20 feet long—How many solid feet?

$$\begin{array}{r}
 14 \text{ thick} \\
 18 \text{ broad} \\
 \hline
 112 \\
 14 \\
 \hline
 252 \\
 240 \text{ the inches in 20 feet} \\
 \hline
 10080 \\
 504 \\
 \hline
 60480 \\
 5184 \\
 \hline
 8640 \\
 8640
 \end{array}$$

Cubic inches in a foot 1728)60480(35 cubic or solid feet the answer.

212 From 6 to 20 In. Side of the Square, and from 1 to 6 Ft. Long.

$\frac{1}{4}$ of the girth.	1 Foot Long.		2 Feet Long.		3 Feet Long.		4 Feet Long.		5 Feet Long.		6 Feet Long.	
	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	0	3	0	6	0	9	1	0	1	3	1	6
6 $\frac{1}{2}$	0	3 $\frac{1}{2}$	0	7	0	10 $\frac{1}{2}$	1	2	1	5 $\frac{1}{2}$	1	9 $\frac{1}{4}$
7	0	4	0	8 $\frac{1}{4}$	1	0 $\frac{1}{4}$	1	4 $\frac{1}{4}$	1	8 $\frac{1}{2}$	2	0 $\frac{1}{2}$
7 $\frac{1}{2}$	0	4 $\frac{1}{2}$	0	9 $\frac{1}{4}$	1	2	1	6 $\frac{3}{4}$	1	11 $\frac{1}{2}$	2	4
8	0	5 $\frac{1}{4}$	0	10 $\frac{3}{4}$	1	4	1	9 $\frac{1}{4}$	2	2 $\frac{3}{4}$	2	8
8 $\frac{1}{2}$	0	6	1	0	1	6	2	0	2	6	3	0
9	0	6 $\frac{3}{4}$	1	1 $\frac{1}{2}$	1	8 $\frac{1}{4}$	2	3	2	9 $\frac{3}{4}$	3	4 $\frac{1}{2}$
9 $\frac{1}{2}$	0	7 $\frac{1}{2}$	1	3	1	10 $\frac{1}{2}$	2	6	3	11 $\frac{1}{2}$	3	9
10	0	8 $\frac{1}{4}$	1	4 $\frac{1}{2}$	2	1	2	9 $\frac{1}{4}$	3	5 $\frac{3}{4}$	4	2
10 $\frac{1}{2}$	0	9 $\frac{1}{4}$	1	6 $\frac{1}{4}$	2	3 $\frac{1}{2}$	3	0 $\frac{3}{4}$	3	9 $\frac{3}{4}$	4	7
11	0	10	1	8 $\frac{1}{4}$	2	6 $\frac{1}{4}$	3	4 $\frac{1}{4}$	4	2 $\frac{1}{2}$	5	0 $\frac{1}{2}$
11 $\frac{1}{2}$	0	11	1	10	2	9	3	8	4	7	5	6 $\frac{1}{4}$
12	1	0	2	0	3	0	4	0	5	0	6	0
12 $\frac{1}{2}$	1	1	2	2	3	3	4	4	5	5	6	6 $\frac{1}{4}$
13	1	2	2	4 $\frac{1}{4}$	3	6 $\frac{1}{4}$	4	8 $\frac{1}{4}$	5	10 $\frac{1}{4}$	7	0 $\frac{1}{2}$
13 $\frac{1}{2}$	1	3 $\frac{1}{4}$	2	6 $\frac{1}{4}$	3	9 $\frac{1}{2}$	5	0 $\frac{3}{4}$	6	3 $\frac{3}{4}$	7	7
14	1	4 $\frac{1}{4}$	2	8 $\frac{1}{2}$	4	1	5	5 $\frac{1}{4}$	6	9 $\frac{1}{2}$	8	2
14 $\frac{1}{2}$	1	5 $\frac{1}{2}$	2	11	4	4 $\frac{1}{2}$	5	10	7	3 $\frac{1}{2}$	8	9
15	1	6 $\frac{3}{4}$	3	1 $\frac{1}{2}$	4	8 $\frac{1}{4}$	6	3	7	9 $\frac{3}{4}$	9	4 $\frac{1}{2}$
15 $\frac{1}{2}$	1	8	3	4	5	0	6	8	8	4	10	0
16	1	9 $\frac{1}{4}$	3	6 $\frac{3}{4}$	5	4	7	1 $\frac{1}{4}$	8	10 $\frac{1}{2}$	10	8
16 $\frac{1}{2}$	1	10 $\frac{3}{4}$	3	9 $\frac{1}{4}$	5	8	7	6 $\frac{3}{4}$	9	5 $\frac{1}{2}$	11	4
17	2	-	4	0	6	0 $\frac{1}{4}$	8	0 $\frac{1}{4}$	10	0 $\frac{1}{2}$	12	0 $\frac{1}{2}$
17 $\frac{1}{2}$	2	1 $\frac{1}{2}$	4	3	6	4 $\frac{1}{2}$	8	6	10	7 $\frac{1}{2}$	12	9
18	2	3	4	6	6	9	9	0	11	3	13	6
18 $\frac{1}{2}$	2	4 $\frac{1}{2}$	4	9	7	1 $\frac{1}{2}$	9	6	11	10 $\frac{1}{2}$	14	3
19	2	6	5	0	7	6 $\frac{1}{4}$	10	0 $\frac{1}{4}$	12	6 $\frac{1}{2}$	15	0 $\frac{1}{2}$
19 $\frac{1}{2}$	2	7 $\frac{3}{4}$	5	3 $\frac{1}{4}$	7	11	10	6 $\frac{3}{4}$	13	2 $\frac{1}{2}$	15	10
20	2	9 $\frac{1}{4}$	5	6 $\frac{1}{2}$	8	4	11	1 $\frac{1}{4}$	13	10 $\frac{1}{2}$	16	8

$\frac{1}{4}$ of the girth:	7 Feet Long.		8 Feet Long.		9 Feet Long.		10 Ft. Long.		11 Ft. Long.		12 Ft. Long.	
In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	1	9	2	0	2	3	2	6	2	9	3	0
6 $\frac{1}{2}$	2	0 $\frac{1}{2}$	2	4	2	7 $\frac{1}{2}$	2	11 $\frac{1}{4}$	3	2 $\frac{3}{4}$	3	6 $\frac{1}{4}$
7	2	4 $\frac{1}{2}$	2	8 $\frac{3}{4}$	3	0 $\frac{3}{4}$	3	4 $\frac{3}{4}$	3	9	4	1
7 $\frac{1}{2}$	2	8 $\frac{3}{4}$	3	11 $\frac{1}{2}$	3	6 $\frac{1}{4}$	3	10 $\frac{3}{4}$	4	3 $\frac{1}{2}$	4	8 $\frac{1}{4}$
8	3	11 $\frac{1}{4}$	3	6 $\frac{1}{2}$	4	0	4	5 $\frac{1}{4}$	4	10 $\frac{1}{2}$	5	4
8 $\frac{1}{2}$	3	6	4	0	4	6 $\frac{1}{4}$	5	0	5	6 $\frac{1}{4}$	6	0 $\frac{1}{4}$
9	3	11 $\frac{1}{4}$	4	6	5	0 $\frac{3}{4}$	5	7 $\frac{1}{2}$	6	2 $\frac{1}{4}$	6	9
9 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	0	5	7 $\frac{1}{2}$	6	3	6	10 $\frac{3}{4}$	7	6 $\frac{1}{4}$
10	4	10 $\frac{1}{4}$	5	6 $\frac{1}{2}$	6	3	6	11 $\frac{1}{4}$	7	7 $\frac{1}{2}$	8	4
10 $\frac{1}{2}$	5	4 $\frac{1}{4}$	6	11 $\frac{1}{2}$	6	10 $\frac{3}{4}$	7	7 $\frac{3}{4}$	8	5	9	2 $\frac{1}{4}$
11	5	10 $\frac{1}{2}$	6	8 $\frac{3}{4}$	7	6 $\frac{3}{4}$	8	4 $\frac{3}{4}$	9	3	10	1
11 $\frac{1}{2}$	6	5	7	4	8	3 $\frac{1}{4}$	9	2 $\frac{1}{4}$	10	1 $\frac{1}{4}$	11	0 $\frac{1}{4}$
12	7	0	8	0	9	0	10	0	11	0	12	0
12 $\frac{1}{2}$	7	7	8	8 $\frac{1}{4}$	9	9	10	10 $\frac{1}{4}$	11	11 $\frac{1}{4}$	13	0 $\frac{1}{4}$
13	8	2 $\frac{1}{2}$	9	4 $\frac{3}{4}$	10	6 $\frac{3}{4}$	11	8 $\frac{3}{4}$	12	10 $\frac{3}{4}$	14	1
13 $\frac{1}{2}$	8	10 $\frac{1}{4}$	10	11 $\frac{1}{2}$	11	4 $\frac{3}{4}$	12	7 $\frac{3}{4}$	13	11	15	2 $\frac{1}{4}$
14	9	6 $\frac{1}{4}$	10	10 $\frac{1}{2}$	12	3	13	7 $\frac{1}{4}$	14	11 $\frac{3}{4}$	16	4
14 $\frac{1}{2}$	10	2 $\frac{1}{2}$	11	8 $\frac{1}{4}$	13	1 $\frac{3}{4}$	14	7	16	0 $\frac{3}{4}$	17	6 $\frac{1}{4}$
15	10	11 $\frac{1}{4}$	12	6	14	0 $\frac{3}{4}$	15	7 $\frac{1}{2}$	17	2 $\frac{1}{4}$	18	9
15 $\frac{1}{2}$	11	8	13	4	15	0	16	8 $\frac{1}{4}$	18	4 $\frac{1}{4}$	20	0 $\frac{1}{4}$
16	12	5 $\frac{1}{4}$	14	2 $\frac{3}{4}$	15	11 $\frac{3}{4}$	17	9 $\frac{1}{4}$	19	6 $\frac{1}{2}$	21	4
16 $\frac{1}{2}$	13	2 $\frac{3}{4}$	15	1 $\frac{3}{4}$	17	0	18	10 $\frac{3}{4}$	20	9 $\frac{1}{2}$	22	8 $\frac{1}{4}$
17	14	0 $\frac{1}{2}$	16	0 $\frac{3}{4}$	18	0 $\frac{3}{4}$	20	0 $\frac{3}{4}$	22	0 $\frac{3}{4}$	24	0 $\frac{3}{4}$
17 $\frac{1}{2}$	14	10 $\frac{1}{2}$	17	0	19	1 $\frac{3}{4}$	21	3	23	4 $\frac{3}{4}$	25	6 $\frac{1}{4}$
18	15	9	18	0	20	3	22	6	24	9	27	0
18 $\frac{1}{2}$	16	7 $\frac{1}{2}$	19	0	21	4 $\frac{3}{4}$	23	9	26	1 $\frac{3}{4}$	28	6 $\frac{1}{4}$
19	17	6 $\frac{1}{2}$	20	0 $\frac{3}{4}$	22	6 $\frac{3}{4}$	25	0 $\frac{3}{4}$	27	6 $\frac{3}{4}$	30	0 $\frac{3}{4}$
19 $\frac{1}{2}$	18	5 $\frac{1}{4}$	21	1 $\frac{3}{4}$	23	9	26	4 $\frac{3}{4}$	29	0 $\frac{1}{2}$	31	8 $\frac{1}{4}$
20	19	5 $\frac{1}{4}$	22	2 $\frac{1}{4}$	24	11 $\frac{3}{4}$	27	9 $\frac{1}{4}$	30	6 $\frac{3}{4}$	33	4

214 From 6 to 20 In. Side of the Square, and from 13 to 18 Ft. Long.

$\frac{1}{4}$ of the girth:	13 Ft. Long		14 Ft. Long		15 Ft. Long		16 Ft. Long		17 Ft. Long		18 Ft. Long	
	In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.
6	3	3	3	6	3	9	4	0	4	3	4	6
6 $\frac{1}{2}$	3	9 $\frac{3}{4}$	4	1 $\frac{1}{4}$	4	4 $\frac{3}{4}$	4	8 $\frac{1}{4}$	4	11 $\frac{3}{4}$	5	3 $\frac{1}{4}$
7	4	5	4	9	5	1 $\frac{1}{4}$	5	5 $\frac{1}{4}$	5	9 $\frac{1}{4}$	6	1 $\frac{1}{2}$
7 $\frac{1}{2}$	5	0 $\frac{3}{4}$	5	5 $\frac{1}{2}$	5	10 $\frac{1}{4}$	6	3	6	7 $\frac{1}{2}$	7	0 $\frac{1}{4}$
8	5	9 $\frac{1}{4}$	6	2 $\frac{3}{4}$	6	8	7	1 $\frac{1}{4}$	7	6 $\frac{3}{4}$	8	0
8 $\frac{1}{2}$	6	6 $\frac{1}{4}$	7	0 $\frac{1}{4}$	7	6 $\frac{1}{4}$	8	0 $\frac{1}{4}$	8	6 $\frac{1}{4}$	9	0 $\frac{1}{4}$
9	7	3 $\frac{3}{4}$	7	10 $\frac{1}{2}$	8	5 $\frac{1}{4}$	9	0	9	6 $\frac{3}{4}$	10	1 $\frac{1}{2}$
9 $\frac{1}{2}$	8	1 $\frac{5}{4}$	8	9 $\frac{1}{4}$	9	4 $\frac{3}{4}$	10	0 $\frac{1}{4}$	10	7 $\frac{3}{4}$	11	3 $\frac{1}{4}$
10	9	0 $\frac{1}{4}$	9	8 $\frac{3}{4}$	10	5	11	1 $\frac{1}{4}$	11	9 $\frac{1}{2}$	12	5 $\frac{3}{4}$
10 $\frac{1}{2}$	9	11 $\frac{1}{4}$	10	8 $\frac{1}{2}$	11	5 $\frac{3}{4}$	12	3	13	0	13	9 $\frac{1}{4}$
11	10	11	11	9 $\frac{1}{4}$	12	7 $\frac{1}{4}$	13	5 $\frac{1}{4}$	14	3 $\frac{1}{2}$	15	1 $\frac{1}{2}$
11 $\frac{1}{2}$	11	11 $\frac{1}{4}$	12	10 $\frac{1}{4}$	13	9 $\frac{1}{4}$	14	8 $\frac{1}{4}$	15	7 $\frac{1}{4}$	16	6 $\frac{1}{4}$
12	13	0	14	0	15	0	16	0	17	0	18	0
12 $\frac{1}{2}$	14	1 $\frac{1}{4}$	15	2 $\frac{1}{4}$	16	3 $\frac{1}{4}$	17	4 $\frac{1}{4}$	18	5 $\frac{1}{4}$	19	6 $\frac{1}{4}$
13	15	3	16	5	17	7 $\frac{1}{4}$	18	9 $\frac{1}{4}$	19	11 $\frac{1}{2}$	21	1 $\frac{1}{2}$
13 $\frac{1}{2}$	16	5 $\frac{1}{4}$	17	8 $\frac{1}{2}$	18	11 $\frac{3}{4}$	20	3	21	6	22	9 $\frac{1}{4}$
14	17	8 $\frac{1}{4}$	19	0 $\frac{1}{2}$	20	5	21	9 $\frac{1}{4}$	23	1 $\frac{1}{2}$	24	6
14 $\frac{1}{2}$	18	11 $\frac{3}{4}$	20	5 $\frac{1}{4}$	21	10 $\frac{3}{4}$	23	4 $\frac{1}{4}$	24	9 $\frac{3}{4}$	26	3 $\frac{1}{4}$
15	20	3 $\frac{3}{4}$	21	10 $\frac{1}{2}$	23	5 $\frac{1}{4}$	25	0	26	6 $\frac{3}{4}$	28	1 $\frac{1}{2}$
15 $\frac{1}{2}$	21	8 $\frac{1}{4}$	23	4 $\frac{1}{4}$	25	0 $\frac{1}{4}$	26	8 $\frac{1}{4}$	28	4 $\frac{1}{2}$	30	0 $\frac{1}{4}$
16	23	1 $\frac{1}{4}$	24	10 $\frac{1}{2}$	26	8	28	5 $\frac{1}{4}$	30	2 $\frac{1}{2}$	32	0
16 $\frac{1}{2}$	24	6 $\frac{3}{4}$	26	5 $\frac{1}{2}$	28	4 $\frac{1}{4}$	30	3	32	1 $\frac{1}{2}$	34	0 $\frac{1}{4}$
17	26	1	28	1	30	1 $\frac{1}{4}$	32	1 $\frac{1}{4}$	34	1 $\frac{1}{4}$	36	1 $\frac{1}{2}$
17 $\frac{1}{2}$	27	7 $\frac{3}{4}$	29	9 $\frac{1}{4}$	31	10 $\frac{3}{4}$	34	0 $\frac{1}{4}$	36	1 $\frac{3}{4}$	38	3 $\frac{1}{4}$
18	29	3	31	6	33	9	36	0	38	3	40	6
18 $\frac{1}{2}$	30	10 $\frac{3}{4}$	33	3 $\frac{1}{4}$	35	7 $\frac{3}{4}$	38	0 $\frac{1}{4}$	40	4 $\frac{3}{4}$	42	9 $\frac{1}{4}$
19	32	7	35	1	37	7 $\frac{1}{4}$	40	1 $\frac{1}{4}$	42	7 $\frac{1}{4}$	45	1 $\frac{1}{2}$
19 $\frac{1}{2}$	34	4	36	11 $\frac{1}{2}$	39	7 $\frac{1}{4}$	42	3	44	10 $\frac{1}{2}$	47	6 $\frac{1}{4}$
20	36	1 $\frac{1}{4}$	38	10 $\frac{1}{2}$	41	8	44	5 $\frac{1}{4}$	47	2 $\frac{1}{2}$	50	0

$\frac{1}{4}$ of the girth.	19 Ft. Long.		20 Ft. Long.		21 Ft. Long.		22 Ft. Long.		23 Ft. Long.		24 Ft. Long.	
In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	4	9	5	0	5	3	5	6	5	9	6	0
6 $\frac{1}{2}$	5	6 $\frac{3}{4}$	5	10 $\frac{1}{2}$	6	1 $\frac{3}{4}$	6	5 $\frac{1}{4}$	6	8 $\frac{3}{4}$	7	0 $\frac{1}{2}$
7	6	5 $\frac{1}{2}$	6	9 $\frac{1}{2}$	7	1 $\frac{3}{4}$	7	5 $\frac{3}{4}$	7	9 $\frac{3}{4}$	8	2
7 $\frac{1}{2}$	7	5	7	9 $\frac{3}{4}$	8	2 $\frac{1}{4}$	8	7	8	11 $\frac{1}{4}$	9	4 $\frac{1}{2}$
8	8	5 $\frac{1}{4}$	8	10 $\frac{1}{2}$	9	4	9	9 $\frac{1}{4}$	10	2 $\frac{1}{2}$	10	8
8 $\frac{1}{2}$	9	6 $\frac{1}{4}$	10	0 $\frac{1}{4}$	10	6 $\frac{1}{4}$	11	0 $\frac{1}{2}$	11	6 $\frac{1}{4}$	12	0 $\frac{1}{2}$
9	10	8 $\frac{1}{4}$	11	3	11	9 $\frac{3}{4}$	12	4 $\frac{1}{2}$	12	11 $\frac{3}{4}$	13	6
9 $\frac{1}{2}$	11	10 $\frac{3}{4}$	12	6 $\frac{1}{4}$	13	1 $\frac{3}{4}$	13	9 $\frac{1}{4}$	14	4 $\frac{3}{4}$	15	0 $\frac{1}{2}$
10	13	2 $\frac{1}{4}$	13	10 $\frac{1}{2}$	14	7	15	3 $\frac{1}{4}$	15	11 $\frac{1}{2}$	16	8
10 $\frac{1}{2}$	14	6 $\frac{1}{2}$	15	3 $\frac{3}{4}$	16	1	16	10	17	7 $\frac{1}{4}$	18	4 $\frac{1}{2}$
11	15	11 $\frac{1}{2}$	16	9 $\frac{1}{2}$	17	7 $\frac{3}{4}$	18	5 $\frac{1}{4}$	19	4	20	2
11 $\frac{1}{2}$	17	5 $\frac{1}{4}$	18	4 $\frac{1}{4}$	19	3 $\frac{1}{4}$	20	2 $\frac{1}{4}$	21	1 $\frac{1}{4}$	22	0 $\frac{1}{2}$
12	19	0	20	0	21	0	22	0	23	0	24	0
12 $\frac{1}{2}$	20	7 $\frac{1}{4}$	21	8 $\frac{1}{4}$	22	9 $\frac{1}{4}$	23	10 $\frac{1}{4}$	24	11 $\frac{1}{4}$	26	0 $\frac{1}{2}$
13	22	3 $\frac{1}{2}$	23	5 $\frac{1}{2}$	24	7 $\frac{3}{4}$	25	9 $\frac{3}{4}$	27	0	28	2
13 $\frac{1}{2}$	24	0 $\frac{1}{2}$	25	3 $\frac{3}{4}$	26	7	27	10	29	1 $\frac{1}{4}$	30	4 $\frac{1}{2}$
14	25	10 $\frac{1}{4}$	27	2 $\frac{1}{2}$	28	7	29	11 $\frac{1}{4}$	31	3 $\frac{1}{2}$	32	8
14 $\frac{1}{2}$	27	8 $\frac{3}{4}$	29	2 $\frac{1}{4}$	30	8	32	1 $\frac{1}{4}$	33	7	35	0 $\frac{1}{2}$
15	29	8 $\frac{1}{4}$	31	3	32	9 $\frac{3}{4}$	34	4 $\frac{1}{2}$	35	11 $\frac{1}{4}$	37	6
15 $\frac{1}{2}$	31	8 $\frac{1}{4}$	33	4 $\frac{1}{4}$	35	0 $\frac{1}{2}$	36	8 $\frac{1}{2}$	38	4 $\frac{1}{3}$	40	0 $\frac{1}{2}$
16	33	9 $\frac{1}{4}$	35	6 $\frac{3}{4}$	37	4	39	1 $\frac{1}{4}$	40	10 $\frac{3}{4}$	42	8
16 $\frac{1}{2}$	35	11	37	9 $\frac{3}{4}$	39	8 $\frac{1}{4}$	41	7	43	5 $\frac{3}{4}$	45	4 $\frac{1}{2}$
17	38	1 $\frac{1}{2}$	40	1	42	1 $\frac{3}{4}$	44	1 $\frac{3}{4}$	46	2	48	2
17 $\frac{1}{2}$	40	4 $\frac{5}{8}$	42	6 $\frac{1}{4}$	44	8	46	9 $\frac{1}{4}$	48	11	51	0 $\frac{1}{2}$
18	42	9	45	0	47	3	49	6	51	9	54	0
18 $\frac{1}{2}$	45	1 $\frac{3}{4}$	47	6 $\frac{1}{4}$	49	11	52	3 $\frac{1}{4}$	54	8	57	0 $\frac{1}{2}$
19	47	7 $\frac{1}{2}$	50	1 $\frac{3}{4}$	52	7 $\frac{5}{8}$	55	1 $\frac{5}{8}$	57	8	60	2
19 $\frac{1}{2}$	50	2	52	9 $\frac{3}{4}$	55	5 $\frac{1}{4}$	58	1	60	8 $\frac{3}{4}$	63	4 $\frac{1}{2}$
20	52	9 $\frac{1}{4}$	55	6 $\frac{1}{4}$	58	4	61	1 $\frac{1}{4}$	63	10 $\frac{3}{4}$	66	8

216 From 6 to 20 In. Side of the Square, and from 25 to 30 Ft. Long.

$\frac{1}{4}$ of the girth.	25 Ft. Long.		26 Ft. Long.		27 Ft. Long.		28 Ft. Long.		29 Ft. Long.		30 Ft. Long.	
	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	6	3	6	6	6	9	7	0	7	3	7	6
6 $\frac{1}{2}$	7	4	7	7 $\frac{1}{2}$	7	11	8	2	8	6	8	9
7	8	6	8	10 $\frac{1}{4}$	9	2 $\frac{1}{4}$	9	6 $\frac{1}{4}$	9	10 $\frac{1}{2}$	10	2 $\frac{1}{2}$
7 $\frac{1}{2}$	9	9 $\frac{1}{4}$	10	1 $\frac{5}{4}$	10	6 $\frac{1}{2}$	10	11 $\frac{1}{4}$	11	4	11	8 $\frac{1}{2}$
8	11	11 $\frac{1}{4}$	11	6 $\frac{3}{4}$	12	0	12	5 $\frac{1}{4}$	12	10 $\frac{3}{4}$	13	4
8 $\frac{1}{2}$	12	6 $\frac{1}{2}$	13	0 $\frac{1}{2}$	13	6 $\frac{1}{2}$	14	0 $\frac{1}{2}$	14	6 $\frac{1}{2}$	15	0 $\frac{1}{2}$
9	14	0 $\frac{3}{4}$	14	7 $\frac{1}{2}$	15	2 $\frac{1}{4}$	15	9	16	3 $\frac{3}{4}$	16	10 $\frac{1}{2}$
9 $\frac{1}{2}$	15	8	16	3 $\frac{1}{2}$	16	11	17	6 $\frac{1}{2}$	18	2	18	9 $\frac{1}{2}$
10	17	4 $\frac{1}{4}$	18	0 $\frac{3}{4}$	18	9	19	5 $\frac{1}{4}$	20	1 $\frac{5}{4}$	20	10
10 $\frac{1}{2}$	19	11 $\frac{1}{4}$	19	10 $\frac{5}{4}$	20	8	21	5 $\frac{1}{4}$	22	2 $\frac{1}{2}$	22	11 $\frac{1}{2}$
11	21	0	21	10	22	8 $\frac{1}{4}$	23	6 $\frac{1}{4}$	24	4 $\frac{1}{4}$	25	2 $\frac{1}{2}$
11 $\frac{1}{2}$	22	11 $\frac{1}{2}$	23	10 $\frac{1}{2}$	24	9 $\frac{1}{2}$	25	8 $\frac{1}{2}$	26	7 $\frac{1}{2}$	27	6 $\frac{1}{2}$
12	25	0	26	0	27	0	28	0	29	0	30	0
12 $\frac{1}{2}$	27	1 $\frac{1}{2}$	28	2 $\frac{1}{2}$	29	3 $\frac{1}{2}$	30	4 $\frac{1}{2}$	31	5 $\frac{1}{2}$	32	6 $\frac{1}{2}$
13	29	4	30	6 $\frac{1}{4}$	31	8 $\frac{1}{4}$	32	10 $\frac{1}{4}$	34	0 $\frac{1}{2}$	35	2 $\frac{1}{2}$
13 $\frac{1}{2}$	31	7 $\frac{3}{4}$	32	10 $\frac{3}{4}$	34	2	35	5 $\frac{1}{4}$	36	8 $\frac{1}{2}$	37	11 $\frac{1}{2}$
14	34	0 $\frac{1}{4}$	35	4 $\frac{3}{4}$	36	9	38	1 $\frac{1}{4}$	39	5 $\frac{3}{4}$	40	10
14 $\frac{1}{2}$	36	6	37	11 $\frac{1}{2}$	39	5	40	10 $\frac{1}{2}$	42	4	43	9 $\frac{1}{2}$
15	39	0 $\frac{3}{4}$	40	7 $\frac{1}{2}$	42	2 $\frac{1}{4}$	43	9	45	3 $\frac{3}{4}$	46	10 $\frac{1}{2}$
15 $\frac{1}{2}$	41	8 $\frac{1}{2}$	43	4 $\frac{1}{2}$	45	0 $\frac{1}{2}$	46	8 $\frac{1}{2}$	48	4 $\frac{1}{2}$	50	0 $\frac{1}{2}$
16	44	5 $\frac{1}{4}$	46	2 $\frac{3}{4}$	48	0	49	3 $\frac{1}{4}$	51	6 $\frac{3}{4}$	53	4
16 $\frac{1}{2}$	47	3 $\frac{1}{4}$	49	1 $\frac{3}{4}$	51	0 $\frac{1}{2}$	52	11 $\frac{1}{4}$	54	10	56	8 $\frac{1}{2}$
17	50	2	52	2 $\frac{1}{4}$	54	2 $\frac{1}{4}$	56	2 $\frac{1}{4}$	58	2 $\frac{1}{2}$	60	2 $\frac{1}{2}$
17 $\frac{1}{2}$	53	2	55	3 $\frac{1}{2}$	57	5	59	6 $\frac{1}{2}$	61	8	63	9 $\frac{1}{2}$
18	56	3	58	6	60	9	63	0	65	3	67	6
18 $\frac{1}{2}$	59	5	61	9 $\frac{1}{2}$	64	2	66	6 $\frac{1}{2}$	68	11	71	3 $\frac{1}{2}$
19	62	8	65	2 $\frac{1}{4}$	67	8 $\frac{1}{4}$	70	2 $\frac{1}{4}$	72	8 $\frac{1}{2}$	75	2 $\frac{1}{2}$
19 $\frac{1}{2}$	66	0 $\frac{1}{4}$	68	7 $\frac{3}{4}$	71	3 $\frac{1}{2}$	73	11 $\frac{1}{4}$	76	7	79	2 $\frac{1}{2}$
20	69	5 $\frac{1}{4}$	72	2 $\frac{3}{4}$	75	0	77	9 $\frac{1}{4}$	80	6 $\frac{3}{4}$	83	4

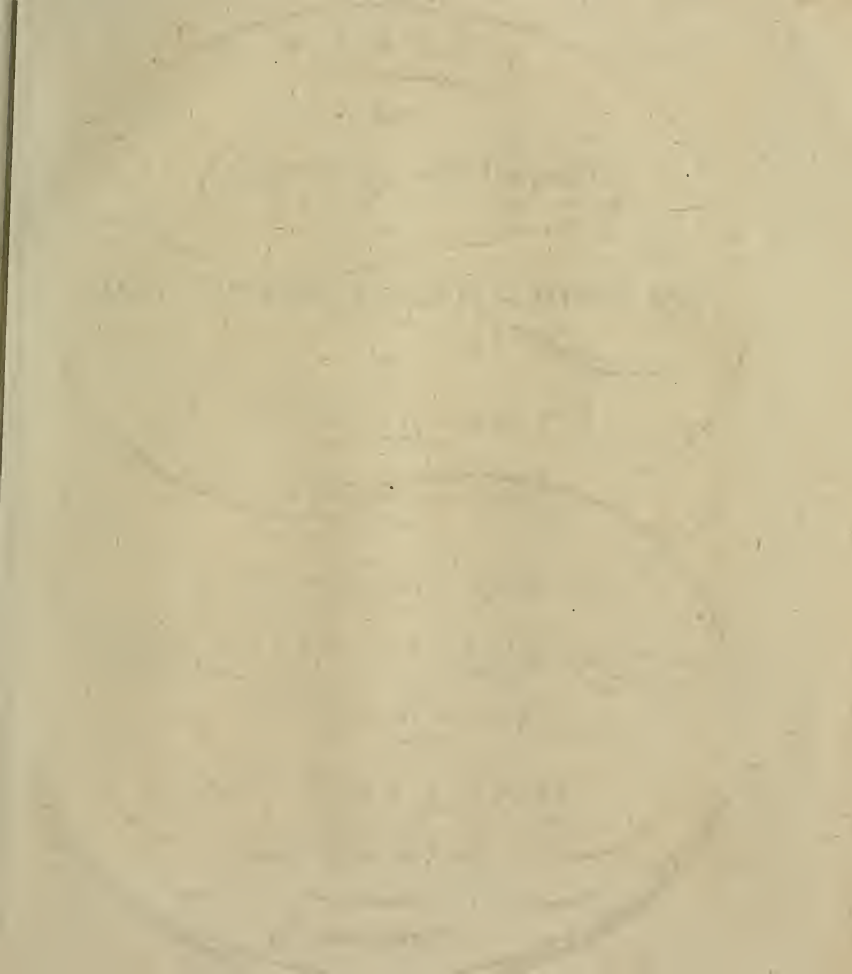
From 6 to 20 In. Side of the Square, and from 31 to 36 Feet Long. 217

$\frac{1}{4}$ of the girth.		31 Ft. Long.		32 Ft. Long.		33 Ft. Long.		34 Ft. Long.		35 Ft. Long.		36 Ft. Long.		
In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	
6	7	9	8	0	8	3	8	6	8	9	9	0	9	0
6 $\frac{1}{2}$	9	1	9	4 $\frac{3}{4}$	9	8 $\frac{1}{4}$	9	11 $\frac{3}{4}$	10	3 $\frac{1}{4}$	10	6 $\frac{3}{4}$	10	6 $\frac{3}{4}$
7	10	6 $\frac{1}{2}$	10	10 $\frac{3}{4}$	11	2 $\frac{3}{4}$	11	6 $\frac{3}{4}$	11	11	11	12	3	0
7 $\frac{1}{2}$	12	1 $\frac{1}{4}$	12	6	12	10 $\frac{3}{4}$	13	3 $\frac{1}{4}$	13	8	14	0 $\frac{3}{4}$	14	0 $\frac{3}{4}$
8	13	9 $\frac{1}{4}$	14	2 $\frac{3}{4}$	14	8	15	1 $\frac{1}{4}$	15	6 $\frac{3}{4}$	16	0	18	0 $\frac{3}{4}$
8 $\frac{1}{2}$	15	6 $\frac{1}{2}$	16	0 $\frac{3}{4}$	16	6 $\frac{3}{4}$	17	0 $\frac{3}{4}$	17	6 $\frac{3}{4}$	18	0 $\frac{3}{4}$	19	8 $\frac{1}{4}$
9	17	5 $\frac{1}{4}$	18	0	18	6 $\frac{3}{4}$	19	1 $\frac{3}{4}$	19	8 $\frac{1}{4}$	20	3	21	11 $\frac{1}{4}$
9 $\frac{1}{2}$	19	5	20	0 $\frac{3}{4}$	20	8 $\frac{1}{4}$	21	3 $\frac{3}{4}$	21	11 $\frac{1}{4}$	22	6 $\frac{3}{4}$	23	11 $\frac{1}{4}$
10	21	6 $\frac{1}{4}$	22	2 $\frac{3}{4}$	22	11	23	7 $\frac{1}{4}$	24	3 $\frac{3}{4}$	25	0	26	9 $\frac{1}{2}$
10 $\frac{1}{2}$	23	8 $\frac{3}{4}$	24	6	25	3 $\frac{1}{4}$	26	0 $\frac{1}{4}$	26	9 $\frac{1}{2}$	27	6 $\frac{3}{4}$	28	9 $\frac{1}{2}$
11	26	0 $\frac{1}{2}$	26	10 $\frac{3}{4}$	27	8 $\frac{3}{4}$	28	6 $\frac{3}{4}$	29	5	30	3	31	5
11 $\frac{1}{2}$	28	5 $\frac{1}{2}$	29	4 $\frac{3}{4}$	30	3 $\frac{3}{4}$	31	2 $\frac{3}{4}$	32	1 $\frac{3}{4}$	33	0 $\frac{3}{4}$	34	0
12	31	0	32	0	33	0	34	0	35	0	36	0	37	0
12 $\frac{1}{2}$	33	7 $\frac{1}{2}$	34	8 $\frac{3}{4}$	35	9 $\frac{3}{4}$	36	10 $\frac{3}{4}$	37	11 $\frac{3}{4}$	38	0 $\frac{3}{4}$	39	0 $\frac{3}{4}$
13	36	4 $\frac{1}{2}$	37	6 $\frac{3}{4}$	38	8 $\frac{3}{4}$	39	10 $\frac{3}{4}$	41	1	42	3	43	3
13 $\frac{1}{2}$	39	2 $\frac{3}{4}$	40	6	41	9 $\frac{1}{4}$	43	0 $\frac{1}{4}$	44	3 $\frac{1}{2}$	45	6 $\frac{3}{4}$	46	6 $\frac{3}{4}$
14	42	2 $\frac{1}{4}$	43	6 $\frac{3}{4}$	44	11	46	3 $\frac{1}{4}$	47	7 $\frac{3}{4}$	48	0	49	0
14 $\frac{1}{2}$	45	3	46	8 $\frac{3}{4}$	48	2 $\frac{1}{4}$	49	7 $\frac{3}{4}$	51	1 $\frac{1}{4}$	52	6 $\frac{3}{4}$	53	6 $\frac{3}{4}$
15	48	5 $\frac{1}{4}$	50	0	51	6 $\frac{3}{4}$	53	1 $\frac{1}{2}$	54	8 $\frac{1}{4}$	56	3	57	3
15 $\frac{1}{2}$	51	8 $\frac{1}{2}$	53	4 $\frac{3}{4}$	55	0 $\frac{3}{4}$	56	8 $\frac{3}{4}$	58	4 $\frac{3}{4}$	60	0 $\frac{3}{4}$	61	0 $\frac{3}{4}$
16	55	1 $\frac{1}{4}$	56	10 $\frac{3}{4}$	58	8	60	5 $\frac{1}{4}$	62	2 $\frac{3}{4}$	64	0	65	0
16 $\frac{1}{2}$	58	7 $\frac{1}{4}$	60	6	62	4 $\frac{3}{4}$	64	3 $\frac{1}{4}$	66	2	68	0 $\frac{3}{4}$	69	0 $\frac{3}{4}$
17	62	2 $\frac{1}{2}$	64	2 $\frac{3}{4}$	66	2 $\frac{3}{4}$	68	2 $\frac{3}{4}$	70	3	72	3	73	3
17 $\frac{1}{2}$	65	11	68	0 $\frac{3}{4}$	70	2 $\frac{1}{2}$	72	3 $\frac{3}{4}$	74	5 $\frac{1}{4}$	76	6 $\frac{3}{4}$	77	6 $\frac{3}{4}$
18	69	9	72	0	74	3	76	6	78	9	81	0	82	0
18 $\frac{1}{2}$	73	8	76	0 $\frac{3}{4}$	78	5 $\frac{1}{2}$	80	9 $\frac{3}{4}$	83	2 $\frac{1}{4}$	85	6 $\frac{3}{4}$	86	6 $\frac{3}{4}$
19	77	8 $\frac{1}{2}$	80	2 $\frac{3}{4}$	82	8 $\frac{3}{4}$	85	2 $\frac{3}{4}$	87	9	90	3	91	3
19 $\frac{1}{2}$	81	10 $\frac{1}{4}$	84	6	87	1 $\frac{3}{4}$	89	9 $\frac{1}{4}$	92	5	95	0 $\frac{3}{4}$	96	0 $\frac{3}{4}$
20	86	11 $\frac{1}{2}$	88	10 $\frac{3}{4}$	91	8	94	5 $\frac{1}{4}$	97	2 $\frac{3}{4}$	100	0	101	0

218 From 6 to 20 In. Side of the Square, and from 37 to 42 Ft. Long.

$\frac{1}{4}$ girth.	37 Ft. Long.		38 Ft. Long.		39 Ft. Long.		40 Ft. Long.		41 Ft. Long.		42 Ft. Long.	
In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	9	3	9	6	9	9	10	0	10	3	10	6
6 $\frac{1}{2}$	10	10 $\frac{1}{4}$	11	1 $\frac{5}{4}$	11	5 $\frac{1}{4}$	11	8 $\frac{5}{4}$	12	0 $\frac{1}{4}$	12	3 $\frac{5}{4}$
7	12	7	12	11 $\frac{1}{4}$	13	3 $\frac{1}{4}$	13	7 $\frac{1}{4}$	13	11 $\frac{1}{2}$	14	3 $\frac{1}{2}$
7 $\frac{1}{2}$	14	5 $\frac{1}{2}$	14	10	15	2 $\frac{5}{4}$	15	7 $\frac{1}{2}$	16	0 $\frac{1}{4}$	16	4 $\frac{5}{4}$
8	16	5 $\frac{1}{4}$	16	10 $\frac{5}{4}$	17	4	17	9 $\frac{1}{4}$	18	2 $\frac{5}{4}$	18	8
8 $\frac{1}{2}$	18	6 $\frac{5}{4}$	19	0 $\frac{5}{4}$	19	6 $\frac{5}{4}$	20	0 $\frac{5}{4}$	20	6 $\frac{5}{4}$	21	0 $\frac{5}{4}$
9	20	9 $\frac{5}{4}$	21	4 $\frac{1}{2}$	21	11 $\frac{1}{4}$	22	6	23	0 $\frac{5}{4}$	23	7 $\frac{1}{4}$
9 $\frac{1}{2}$	23	2 $\frac{1}{4}$	23	9 $\frac{5}{4}$	24	5 $\frac{1}{4}$	25	0 $\frac{5}{4}$	25	8 $\frac{1}{4}$	26	3 $\frac{5}{4}$
10	25	8 $\frac{1}{4}$	26	4 $\frac{5}{4}$	27	1	27	9 $\frac{1}{4}$	28	5 $\frac{5}{4}$	29	2
10 $\frac{1}{2}$	28	4	29	1	29	10 $\frac{1}{4}$	30	7 $\frac{1}{2}$	31	4 $\frac{5}{4}$	32	1 $\frac{5}{4}$
11	31	1	31	11 $\frac{1}{4}$	32	9 $\frac{1}{4}$	33	7 $\frac{1}{4}$	34	5 $\frac{1}{2}$	35	3 $\frac{1}{2}$
11 $\frac{1}{2}$	33	11 $\frac{5}{4}$	34	10 $\frac{5}{4}$	35	9 $\frac{5}{4}$	36	8 $\frac{5}{4}$	37	7 $\frac{5}{4}$	38	6 $\frac{5}{4}$
12	37	0	38	0	39	0	40	0	41	0	42	0
12 $\frac{1}{2}$	40	1 $\frac{5}{4}$	41	2 $\frac{5}{4}$	42	3 $\frac{5}{4}$	43	4 $\frac{5}{4}$	44	5 $\frac{5}{4}$	45	6 $\frac{5}{4}$
13	43	5	44	7 $\frac{1}{4}$	45	9 $\frac{1}{4}$	46	11 $\frac{1}{4}$	48	1 $\frac{5}{4}$	49	3 $\frac{1}{2}$
13 $\frac{1}{2}$	46	10	48	1	49	4 $\frac{1}{4}$	50	7 $\frac{1}{2}$	51	10 $\frac{5}{4}$	53	1 $\frac{5}{4}$
14	50	4 $\frac{1}{4}$	51	8 $\frac{5}{4}$	53	1	54	5 $\frac{1}{4}$	55	0 $\frac{5}{4}$	57	2
14 $\frac{1}{2}$	54	0 $\frac{1}{4}$	55	5 $\frac{1}{4}$	56	11 $\frac{1}{4}$	58	4 $\frac{5}{4}$	59	10 $\frac{1}{4}$	61	3 $\frac{5}{4}$
15	57	9 $\frac{5}{4}$	59	4 $\frac{1}{2}$	60	11 $\frac{1}{4}$	62	6	64	0 $\frac{5}{4}$	65	7 $\frac{1}{2}$
15 $\frac{1}{2}$	61	8 $\frac{5}{4}$	63	4 $\frac{5}{4}$	65	0 $\frac{5}{4}$	66	8 $\frac{5}{4}$	68	4 $\frac{5}{4}$	70	0 $\frac{5}{4}$
16	65	9 $\frac{1}{4}$	67	6 $\frac{5}{4}$	69	4	71	11 $\frac{1}{4}$	72	10 $\frac{5}{4}$	74	8
16 $\frac{1}{2}$	69	11 $\frac{1}{2}$	71	10	73	8 $\frac{5}{4}$	75	7 $\frac{1}{2}$	77	6 $\frac{1}{4}$	79	4 $\frac{5}{4}$
17	74	3	70	3	78	3 $\frac{1}{4}$	80	3 $\frac{1}{4}$	82	3 $\frac{1}{2}$	84	3 $\frac{1}{2}$
17 $\frac{1}{2}$	78	8 $\frac{1}{4}$	80	9 $\frac{5}{4}$	82	11 $\frac{1}{4}$	85	0 $\frac{5}{4}$	87	2 $\frac{1}{4}$	89	3 $\frac{5}{4}$
18	83	3	85	6	87	9	90	0	92	3	94	6
18 $\frac{1}{2}$	87	11 $\frac{1}{4}$	90	3 $\frac{5}{4}$	92	8 $\frac{1}{4}$	95	0 $\frac{5}{4}$	97	5 $\frac{1}{4}$	99	9 $\frac{5}{4}$
19	92	9	95	3 $\frac{1}{4}$	97	9 $\frac{1}{4}$	100	3 $\frac{1}{4}$	102	9 $\frac{1}{2}$	105	3 $\frac{1}{2}$
19 $\frac{1}{2}$	97	8 $\frac{1}{2}$	100	4	102	11 $\frac{5}{4}$	105	7 $\frac{1}{2}$	108	3 $\frac{1}{4}$	110	10 $\frac{5}{4}$
20	102	9 $\frac{1}{4}$	105	6 $\frac{5}{4}$	108	4	111	1 $\frac{1}{4}$	113	10 $\frac{5}{4}$	116	8

FINIS.



1840

for

the year 1840

at

the office of the

of

the year 1840

the year 1840

the year 1840

the year 1840

the year 1840

the year 1840

the year 1840

the year 1840

T A B L E S

for

Computing the Weight

of

HAY, CATTLE, SHEEP, & HOGS, &c.

by

M E A S U R E M E N T

with a Comparative TABLE

of the WEIGHT used at

EDINBURGH

To those in use at

SMITHFIELD

and else where

BY JOHN AINSLIE

Sold by, Johnstone & Co. Edinburgh

& Hurst, Robinson & Co. London

1877

Dear Sir,

I have the pleasure to inform you that

the same has been forwarded to you

and I am sure you will be satisfied with it

I am, Sir, very respectfully,

Your obedient servant,

J. H. [Name]

TABLES for COMPUTING the WEIGHT of HAY

by measuring the

GIRTH and HEIGHT.

1st Measure round the stack with a cord or measuring line, and see how many feet it is in circumference.

2^d Take the height from the ground to the Eves, then take the height from the Eves to the top, but of this last height you take only $\frac{2}{3}$, which add to the height from the ground to the Eves. Suppose a Stack to be 50 feet in girth, and 15 feet high, look for 15 feet at the top, and for 50 feet in the left hand Column, in the square of intersection is 774 Stenes the number of stenes contained in the Stack, allowing 7 Stenes to a cubick yard. A Rick of Hay has seldom more than 5 Stenes, a new made stack about 6 stenes, a large stack will weigh about 8 stenes, and a large Stack of old Hay will weigh 9 Stenes in a cubick yard.

1st Suppose a Rick of Hay to consist of 100 Stenes by the Tables; multiply by 5 and divide by 7 gives 71 Stenes in the Rick.

2^d Suppose a new made Stack of Hay by the tables consists of 774 Stenes; multiply by 6 and divide by 7 gives 663 Stenes.

3^d Suppose a large Stack to consist of 1500 Stenes by the Tables; multiply by 8 and divide by 7 gives nearly 1714 Stenes.

Lastly a large Stack of old Hay of the same dimension will weigh about 9 Stenes in a cubick yard, multiply by 9 and divide the product by 7 will give nearly 1129 Stenes in the old Stack. The tables answers for stacks that are built circular, which are very difficult to calculate; Square or oblong stacks are easily measured.

To those who are unacquainted or has forgot the method, the following rule is used; Multiply the number of feet in length by the number of feet in breadth, and that product by the number of feet in height, divide the amount by 27 gives cubick yards, which multiply by the number of stenes supposed to be in a cubick yard, and you have the weight in Stenes.

Multiply by $\frac{40}{27}$ the Length
 $\frac{15}{27}$ the Breadth

EXAMPLE

Multiply by $\frac{40}{27}$ the height

Divide by 27 $\frac{40 \times 15 \times 15}{27} = 333.3$

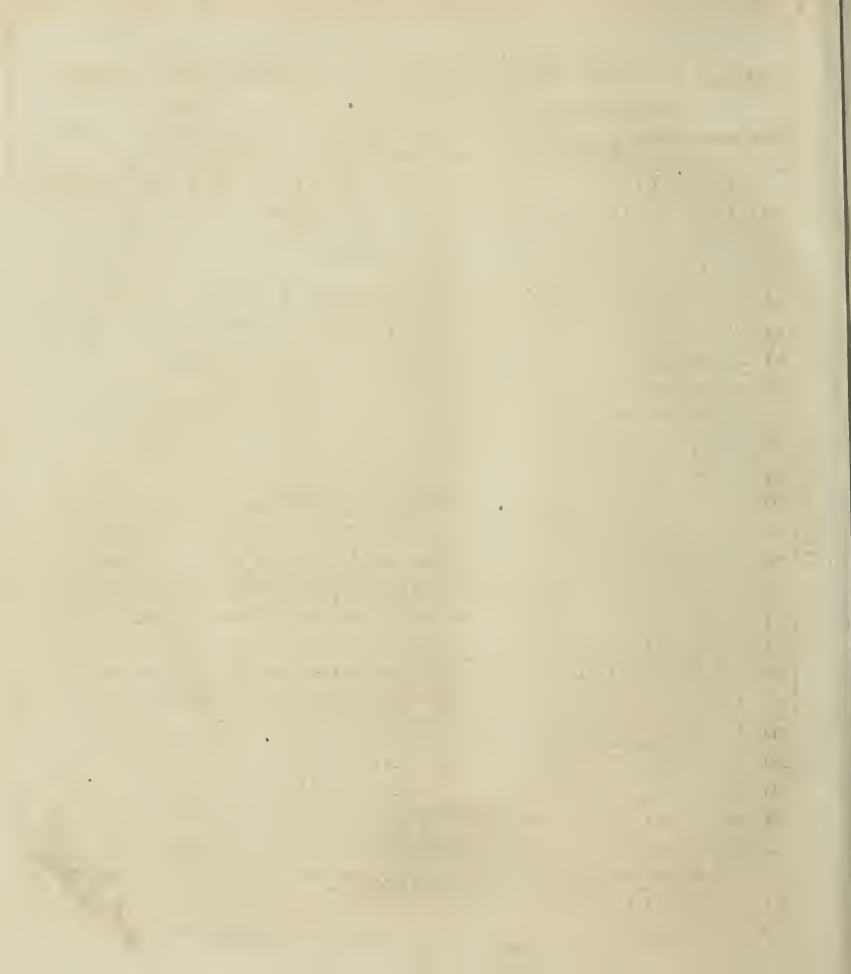
$\frac{8}{2000.4}$ Suppose 8 stenes in a $\frac{3}{4}$ Stenes in the stack



Height from the Eves to the Top $\frac{2}{3}$ of which is 3
Height from the ground to the Eves 12 Feet

12 Feet

15 Feet high



**TABLE for COMPUTING the WEIGHT of HAY from 3 to 21 feet in HEIGHT
and from 6 to 35 feet in GIRTH or CIRCUMFERENCE**

The figures at the top is the Height & these on the left hand the Girth. The other Columns is the Weight in Stews allowing 7 Stews to a cubick yard

The Girths

	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
10	6	8	10	12	14	16	18	21			The Heights								
11	7	10	12	15	17	20	22	25	27										
12	9	12	15	18	21	24	27	30	33	36									
13	10	14	17	21	24	28	31	35	38	42	45								
14	12	16	20	24	28	32	36	40	45	49	53	57							
15	14	18	23	28	32	37	42	46	51	56	60	65	70						
16	16	21	26	32	37	42	47	53	58	63	68	74	79	84					
17	18	24	30	36	42	48	54	60	66	72	77	83	89	95	101				
18	20	27	33	40	47	53	60	67	74	80	87	94	100	107	115	121			
19	22	30	37	45	52	60	67	74	82	89	97	104	112	120	127	134	141		
20	25	33	41	50	58	66	74	83	91	99	107	116	124	132	140	149	157	165	
21	27	36	45	54	63	72	82	91	100	109	118	127	136	145	154	163	172	182	191
22	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210
23	33	44	55	66	77	88	99	110	121	132	143	154	165	176	186	197	208	218	229
24	36	48	60	72	83	95	107	119	131	143	154	166	178	190	202	214	226	238	250
25	40	52	64	77	90	103	117	129	142	155	167	180	193	206	219	232	245	258	271
26	42	56	70	84	98	112	126	140	153	167	181	195	209	223	237	251	265	279	293
27	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315
28	48	65	81	97	113	129	145	161	178	194	210	226	242	259	275	291	307	323	339
29	52	70	87	104	121	138	156	173	191	208	226	243	260	278	294	312	329	347	364
30	55	74	93	111	130	148	166	185	203	222	241	259	277	296	315	333	352	371	390
31	59	79	99	119	139	159	178	198	218	238	258	277	297	317	337	357	377	397	417
32	63	84	105	127	148	169	190	211	232	253	274	295	316	338	359	380	401	422	443
33	67	90	112	135	157	180	202	224	247	269	292	314	337	359	381	404	426	449	471
34	72	95	119	143	167	190	215	238	262	286	310	334	358	381	405	429	452	477	501
35	78	101	126	152	177	201	227	253	278	303	328	353	379	404	430	454	480	505	530

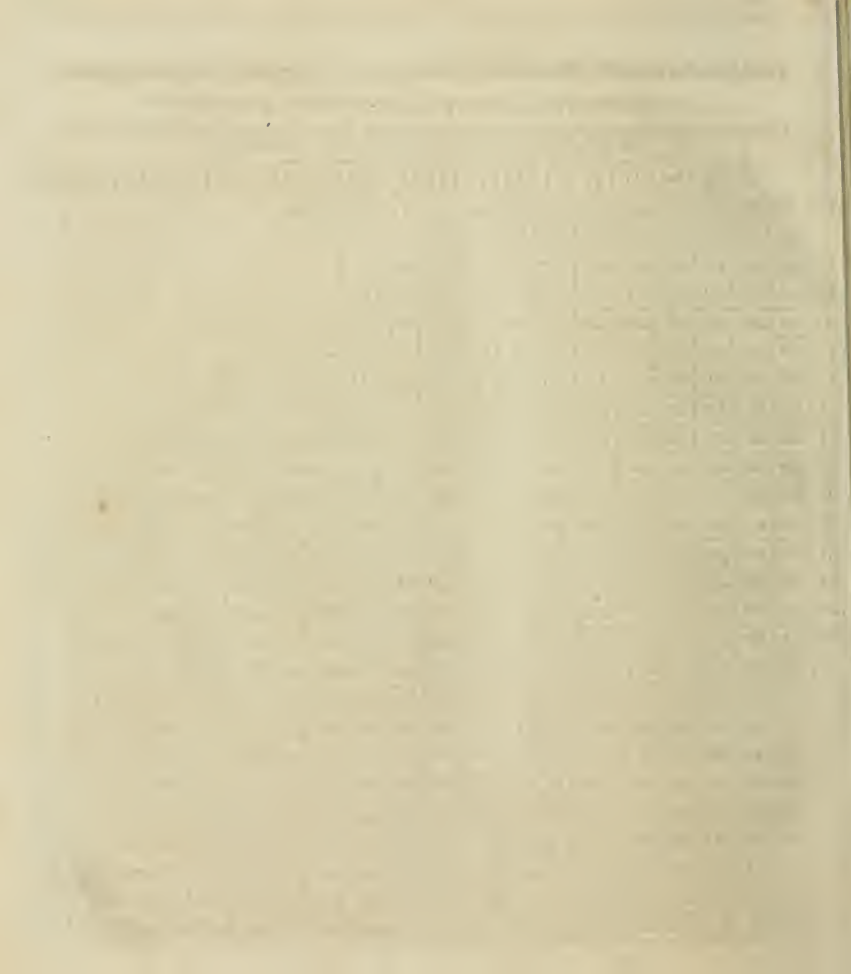
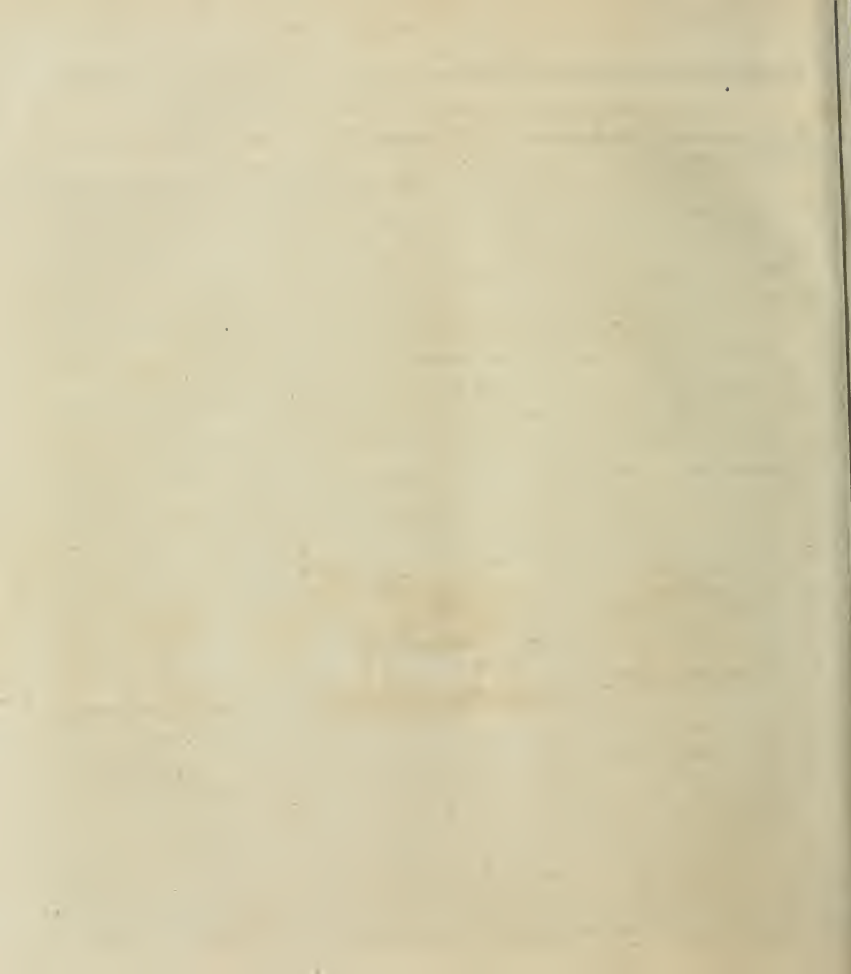


TABLE for COMPUTING the WEIGHT of HAY from 7 to 25 feet in HEIGHT
and from 30 to 61 feet in GIRTH or CIRCUMFERENCE

The numbers at the top is the height & these on the left hand the Girth. The other columns is the Weight in Sticks allowing 7 Sticks to a cubick yard

	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
36	187	211	241	267	291	321	348	371	401	428	455	481	508	535	561	588	615	642	670
37	198	226	251	282	306	336	367	395	424	452	480	508	536	565	593	621	649	678	706
38	208	238	268	298	327	357	387	417	447	477	507	536	566	596	625	655	685	715	745
39	219	250	282	311	341	371	403	433	464	494	525	555	586	616	647	678	709	740	771
40	231	264	297	330	363	396	429	462	495	528	561	594	627	660	693	726	759	792	825
41	242	277	312	347	381	415	450	485	520	555	590	624	659	694	728	763	797	832	866
42	255	291	327	364	400	437	473	510	546	582	619	655	691	728	764	801	837	874	912
43	267	305	343	381	420	459	498	537	576	615	654	693	732	771	810	849	888	927	966
44	280	320	360	399	439	479	519	559	599	639	679	719	759	799	839	879	919	959	999
45	292	334	376	418	460	502	544	586	628	670	712	754	796	838	879	921	963	1005	1047
46	306	349	393	437	480	523	566	609	652	695	738	781	824	867	909	952	995	1038	1081
47	321	366	411	457	502	547	592	637	682	727	771	816	861	906	951	996	1041	1086	1131
48	332	380	428	477	525	573	621	669	717	765	813	861	909	957	1005	1053	1101	1149	1197
49	348	397	446	495	544	593	642	691	739	788	837	886	934	983	1031	1080	1128	1177	1225
50	361	413	464	515	566	617	668	719	770	821	872	923	974	1025	1076	1127	1178	1229	1280
51	377	430	483	537	590	643	696	749	802	855	908	961	1014	1067	1120	1173	1226	1279	1332
52	390	446	502	558	614	670	726	781	837	892	948	1003	1058	1113	1168	1223	1278	1333	1388
53	406	464	521	579	637	695	753	811	869	927	985	1043	1101	1159	1217	1275	1333	1391	1449
54	422	482	542	602	662	722	782	842	902	962	1021	1081	1141	1201	1261	1321	1381	1441	1501
55	439	500	561	622	683	744	805	866	927	988	1048	1109	1169	1230	1291	1351	1411	1471	1531
56	453	518	582	647	712	777	842	907	972	1037	1102	1167	1232	1297	1362	1427	1492	1557	1622
57	469	536	603	670	737	804	871	938	1005	1072	1139	1206	1273	1340	1407	1474	1541	1608	1675
58	486	555	625	695	765	835	905	975	1045	1115	1185	1255	1325	1395	1465	1535	1605	1675	1745
59	503	574	646	718	790	862	934	1006	1078	1150	1222	1294	1366	1438	1510	1582	1654	1726	1798
60	520	594	668	743	817	891	965	1039	1113	1187	1261	1335	1409	1483	1557	1631	1705	1779	1853
61	537	614	691	768	844	921	998	1075	1151	1228	1305	1382	1459	1536	1613	1690	1767	1844	1921



TABLES for ascertaining the WEIGHT
of
CATTLE, CALVES, SHEEP, & HOGS, &c.

by

M E A S U R E

Measure round the Beast as represented by a dotted line marked A.B (which is called the Girth) with a Cord; and with a feet rule see how many feet and Inches it is in circumference; then measure from the fore part of the shoulder from A. to C. and mark the feet and inches the Beast is in length; then in the tables find out the Girth in one of the Columns, and by looking down that Column you will find its length; immediately opposite on the right hand Column is the weight of the Beasts four quarters; sinking off the

Girth $\overset{F. I.}{4. 0}$
Length $3. 0$



Weight $\overset{St. lb.}{9. 2}$

Girth $\overset{F. I.}{6. 10}$
Length $4. 6$



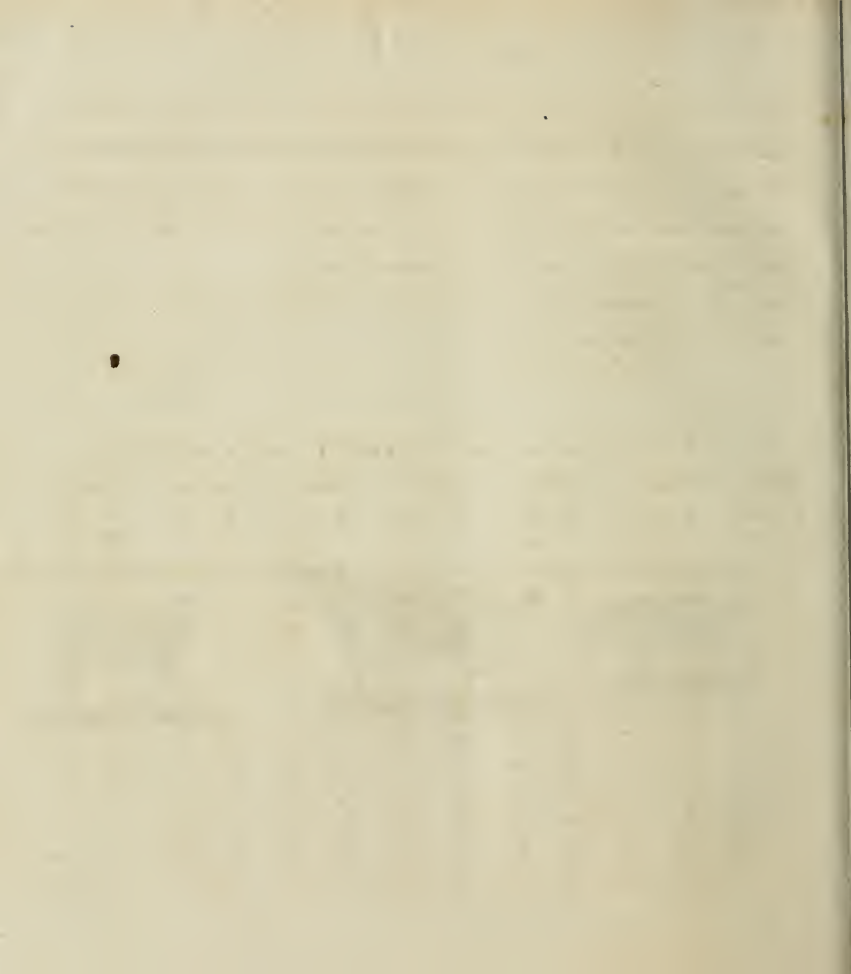
Weight $17. 10$

Girth $\overset{F. I.}{3. 0}$
Length $2. 6$



Weight $4. 4$

These tables were calculated according to the Weight used at Edinburgh viz! $17\frac{1}{2}$ Ounces to the lb. they were made out by measuring a number of Cattle when in life that were afterwards Killed at Edinburgh by weighing the four quarters when Killed. The tables will be found useful to those who are not Judges and to such Sellers and Buyers who has not had much practice. If the weight is wanted for any other market in the Kingdom where 16 lb. to the Stone is used it is only multiplying the weight found out in the tables by $17\frac{1}{2}$ and dividing by the number of ounces in the lb. used at other markets.

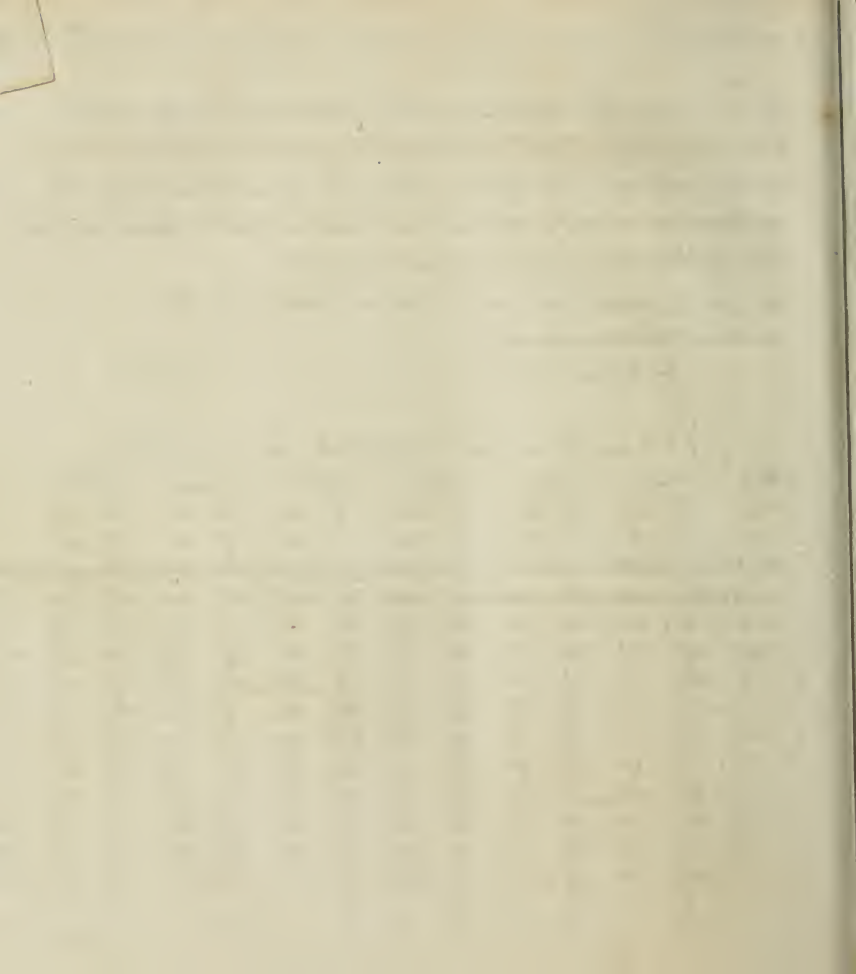


The most common method of buying Cattle is by the eye which is far from being a just method
 betwixt the buyer and seller If beasts were weighed in live by a Steelyard or any other balance it is not
 altogether satisfactory as different parts are different in value It is generally understood that the
 four Quarters make one half of the whole weight The skin about the 18.th part The tallow about the 12 part
 and the Head Tripe Blood &c. make up the remainder of the weight

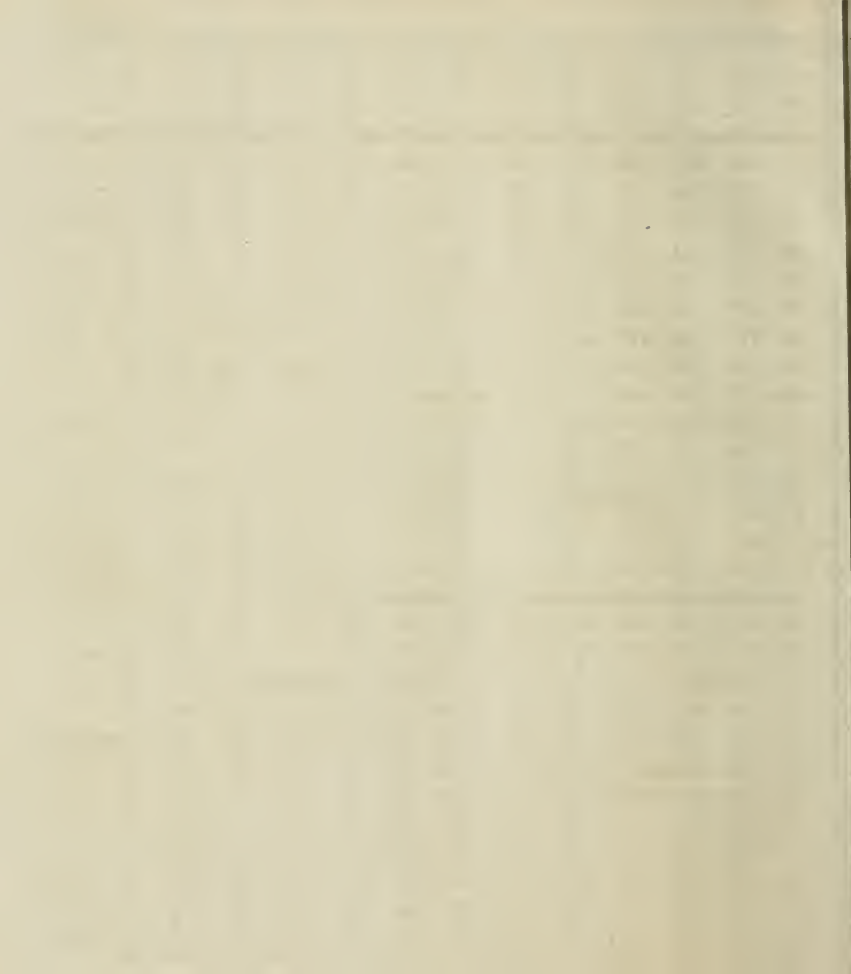
Suppose the four quarters of a Cow to weigh 36 Stones at 7 shillings p^r Stone £12. 12. 0
 one third of D^r for the value of the offals _____ 4. 4
 Total value of the Cow _____ 10. 16

TABLES for the WEIGHT of CATTLE

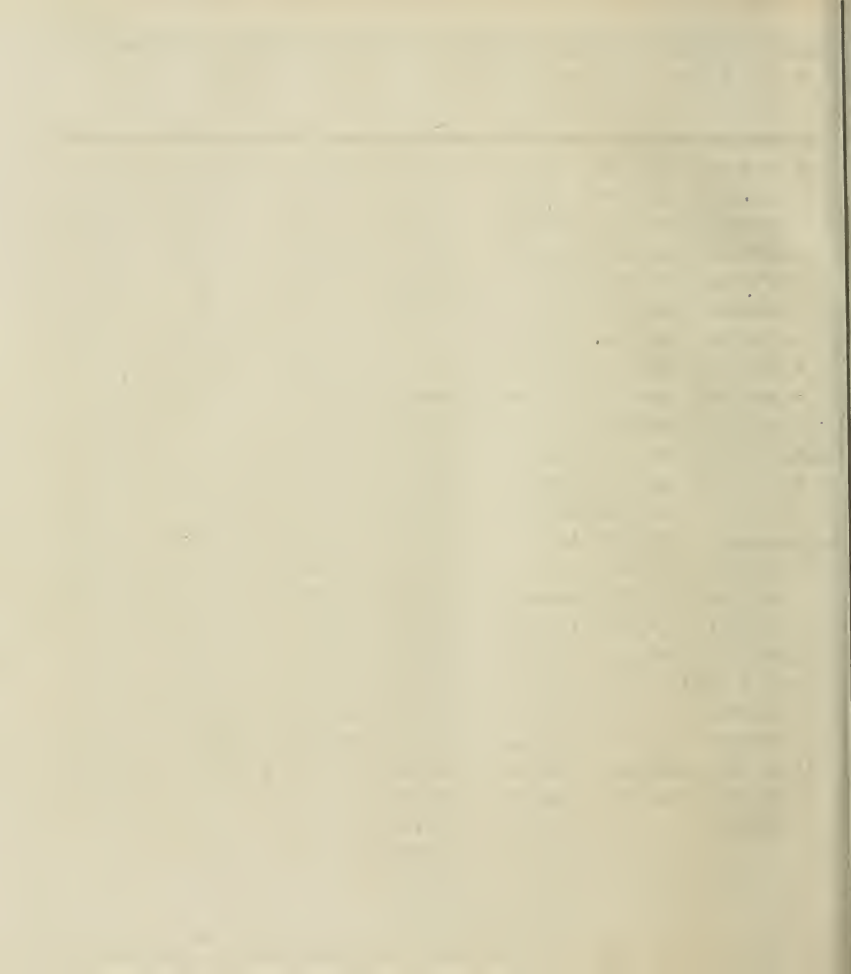
Girth		Girth		Girth		Girth		Girth		Girth		Girth	
F	In	F	In	F	In	F	In	F	In	F	In	F	In
2	8	2	9	2	10	2	11	3	0	3	1	F	In
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight
F	In	St.	lb	F	In	St.	lb	F	In	St.	lb	F	In
1	10	2	71	11	2	12	83	12	13	6	2	33	11
1	11	2	92	12	1	13	32	2	3	8	2	33	14
2	0	2	11	2	13	0	2	3	3	10	2	44	0
2	1	2	13	2	2	3	3	7	2	4	3	54	8
2	2	2	15	2	3	3	0	2	5	3	1	64	4
2	3	3	1	2	4	3	0	2	6	4	0	74	7
2	4	3	3	2	5	3	7	2	7	4	9	84	0
2	5	3	5	2	6	3	15	2	8	4	5	94	11
2	6	3	7	2	7	3	15	2	8	4	5	104	2
2	7	3	9	2	8	3	13	2	10	4	1	115	0
2	8	3	11	2	9	3	11	2	11	5	0	125	0



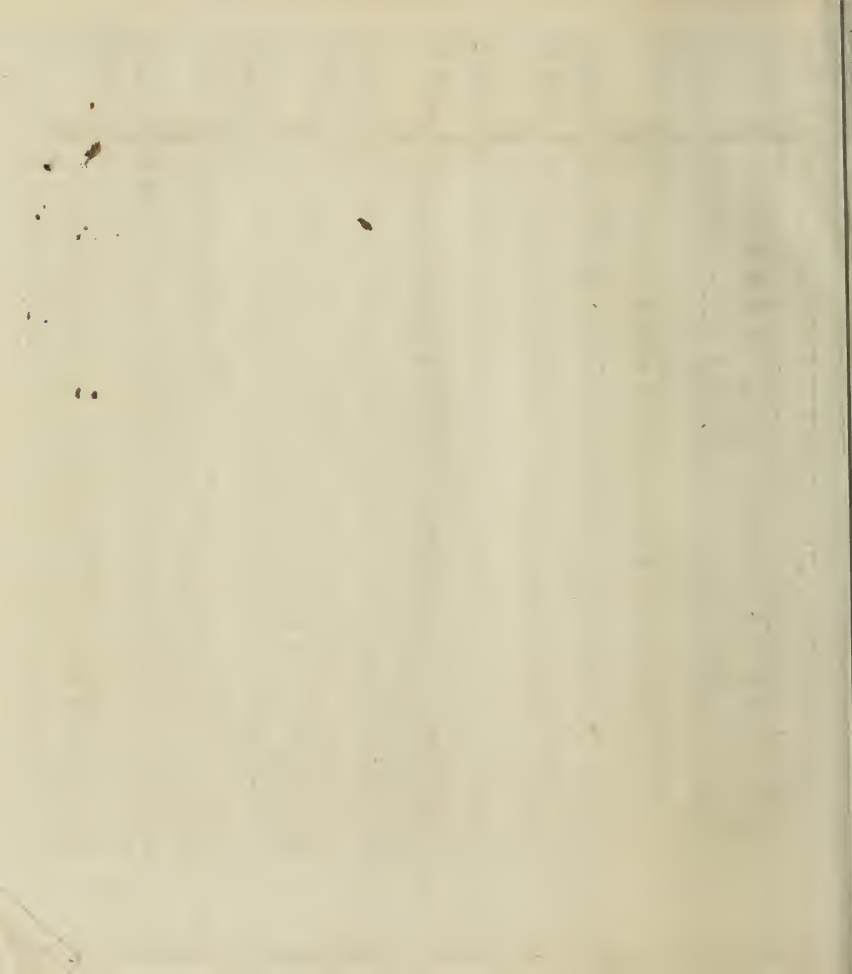
Girth		Girth		Girth		Girth		Girth		Girth		Girth	
F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In	St. H.
3. 3		3. 5		3. 7		3. 9		3. 11		4.		4. 2	
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight
2. 3	4. 8	2. 5	5. 4	2. 7	6. 5	2. 9	7. 5	2. 10	8. 4	3. 0	10. 11	2. 10	9. 7
2. 4	4. 11	2. 6	5. 7	2. 8	6. 8	2. 10	7. 9	2. 11	8. 8	3. 7	10. 15	2. 11	9. 11
2. 5	4. 14	2. 7	5. 10	2. 9	6. 12	2. 11	7. 12	3. 0	8. 12	3. 8	11. 3	3. 0	9. 15
2. 6	5.	2. 8	5. 12	2. 10	6. 15	3. 0	8. 0	3. 1	9. 0	3. 9	11. 7	3. 1	10. 3
2. 7	5. 3	2. 9	5. 15	2. 11	7. 2	3. 1	8. 3	3. 2	9. 4	3. 10	11. 11	3. 2	10. 7
2. 8	5. 6	2. 10	6. 2	3. 0	7. 5	3. 2	8. 7	3. 3	9. 8	3. 11	11. 15	3. 3	10. 12
2. 9	5. 8	2. 11	6. 5	3. 1	7. 8	3. 3	8. 10	3. 4	9. 12	4. 0	12. 3	3. 4	11. 0
2. 10	5. 11	3. 0	6. 8	3. 2	7. 11	3. 4	8. 14	3. 5	10. 0	Girth		3. 5	11. 5
2. 11	5. 14	3. 1	6. 11	3. 3	7. 14	3. 5	9. 1	3. 6	10. 4	F. In		3. 6	11. 9
3. 0	6. 0	3. 2	6. 14	3. 4	8. 2	3. 6	9. 5	3. 7	10. 8	4. 1		3. 7	11. 14
3. 1	6. 3	3. 3	7. 0	3. 5	8. 5	3. 7	9. 9	3. 8	10. 12	Length	Weight	3. 8	12. 3
Girth		Girth		Girth		Girth		Girth		3. 9	11. 0	F. In	St. H.
F. In		F. In		F. In		F. In		F. In		3. 10	11. 4	2. 10	9. 0
3. 1		3. 0		3. 8		3. 10		3. 11	11. 8	2. 11	9. 4	3. 11	12. 15
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Girth		3. 0	9. 8	4. 0	13. 4
F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In	St. H.	F. In		3. 1	9. 12	Girth	
2. 3	4. 12	2. 6	5. 13	2. 8	6. 13	2. 10	7. 15	4.		3. 2	10. 0	F. In	
2. 4	4. 15	2. 7	6. 0	2. 9	7. 1	2. 11	8. 3	Length	Weight	3. 3	10. 4	F. In	
2. 5	5. 2	2. 8	6. 3	2. 10	7. 4	3. 0	8. 7	F. In	St. H.	3. 4	10. 8	4. 3	
2. 6	5. 5	2. 9	6. 7	2. 11	7. 7	3. 1	8. 10	2. 10	9. 10	3. 5	10. 12	Length	Weight
2. 7	5. 8	2. 10	6. 10	3. 0	7. 11	3. 2	8. 13	2. 11	8. 14	3. 6	11. 0	F. In	St. H.
2. 8	5. 10	2. 11	6. 13	3. 1	7. 15	3. 3	9. 1	3. 0	9. 2	3. 7	11. 5	2. 10	9. 14
2. 9	5. 13	3. 0	7. 3	3. 2	8. 2	3. 4	9. 5	3. 1	9. 6	3. 8	11. 9	2. 11	10. 2
2. 10	6. 0	3. 1	7. 6	3. 3	8. 5	3. 5	9. 9	3. 2	9. 11	3. 9	11. 13	3. 0	10. 0
2. 11	6. 3	3. 2	7. 9	3. 4	8. 9	3. 6	9. 13	3. 3	9. 15	3. 10	12. 2	3. 1	10. 10
3. 0	6. 5	3. 3	7. 12	3. 5	8. 13	3. 7	10. 1	3. 4	10. 2	3. 11	12. 6	3. 2	10. 14
3. 1	6. 8	3. 4	7. 15	3. 6	9. 0	3. 8	10. 5	3. 5	10. 6	4. 0	12. 10	3. 3	11. 3



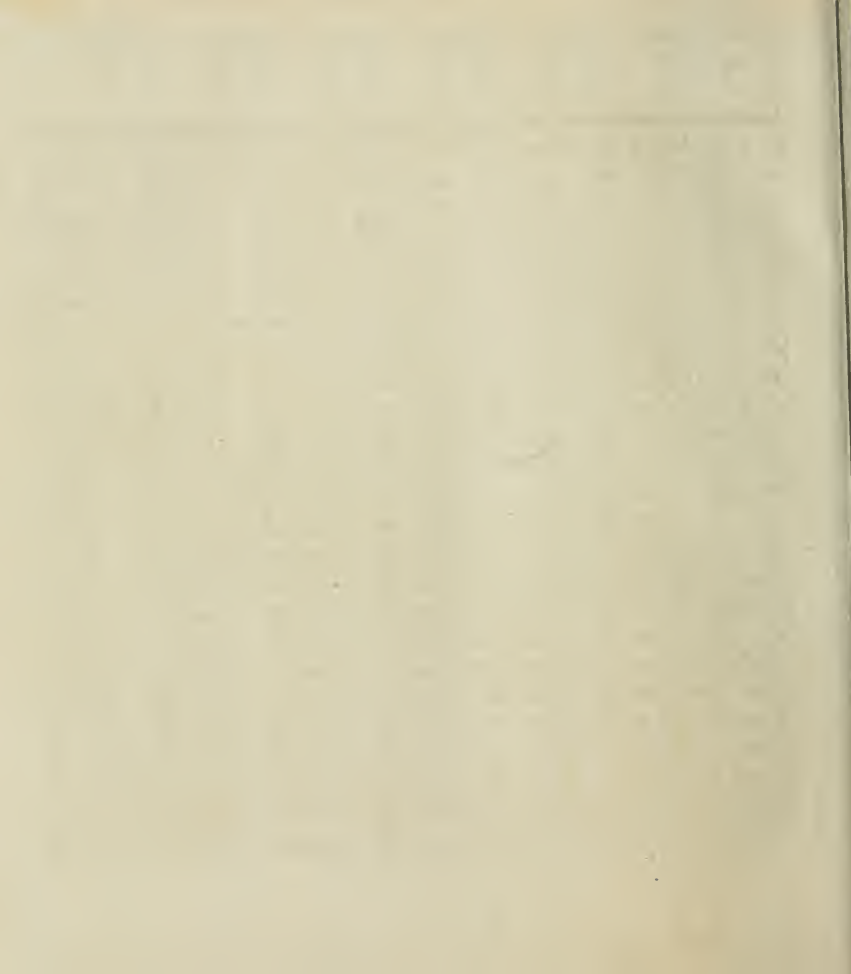
Girth		Girth		Girth		Girth		Girth		Girth		Girth	
F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb
1. 3		1. 5		1. 6		1. 7		1. 9		1. 10		1. 11	
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight
F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb	F. In	St. Hb
3. 1	11. 8	3. 1	11. 2	3. 5	13. 3	1. 1	10. 5	3. 2	13. 10	3. 2	11. 2	3. 2	11. 10
3. 5	11. 12	3. 1	11. 7	3. 6	13. 8	1. 2	10. 10	3. 3	11. 0	3. 3	11. 7	3. 3	11. 15
3. 6	12. 1	3. 2	11. 12	3. 7	13. 13	1. 3	11. 0	3. 4	11. 5	3. 4	11. 13	3. 4	15. 0
3. 7	12. 5	3. 3	12. 1	3. 8	11. 2	1. 4	11. 0	3. 5	11. 11	3. 5	15. 3	3. 5	15. 12
3. 8	12. 10	3. 4	12. 7	3. 9	11. 7	Girth		3. 6	15. 1	3. 6	15. 9	3. 6	16. 2
3. 9	12. 15	3. 5	12. 11	3. 10	11. 12	F. In		3. 7	15. 7	3. 7	15. 15	3. 7	16. 8
3. 10	13. 3	3. 6	13. 0	3. 11	15. 1	1. 8		3. 8	15. 12	3. 8	16. 5	3. 8	16. 11
3. 11	13. 8	3. 7	13. 5	1. 0	15. 6	Length	Weight	3. 9	16. 2	3. 9	16. 11	3. 9	17. 4
1. 0	13. 12	3. 8	13. 10	1. 1	15. 12	F. In	St. Hb	3. 10	16. 8	3. 10	17. 1	1. 1	17. 10
Girth		3. 9	13. 15	1. 2	16. 1	3. 2	13. 3	3. 11	16. 13	3. 11	17. 7	3. 11	18. 0
F. In		3. 10	14. 4	1. 3	16. 6	3. 3	13. 8	1. 0	17. 3	1. 0	17. 13	1. 0	18. 7
1. 1		3. 11	14. 9	Girth		3. 4	13. 13	1. 1	17. 8	1. 1	18. 3	1. 1	18. 13
Length	Weight	1. 0	14. 11	F. In		3. 5	14. 3	1. 2	17. 11	1. 2	18. 9	1. 2	19. 3
F. In	St. Hb	1. 1	15. 3	1. 7		3. 6	14. 8	1. 3	18. 4	1. 3	18. 15	1. 3	19. 9
3. 0	16. 10	1. 2	15. 8	Length	Weight	3. 7	14. 11	1. 4	18. 10	1. 4	19. 4	1. 4	19. 15
3. 1	11. 0	1. 3	15. 13	F. In	St. Hb	3. 8	15. 3	1. 5	19. 0	1. 5	19. 11	1. 5	20. 5
3. 2	11. 5	1. 4	16. 2	3. 2	12. 11	3. 9	15. 8	1. 6	19. 5	1. 6	20. 0	1. 6	20. 11
3. 3	11. 10	Girth		3. 3	13. 0	3. 10	15. 11	1. 7	19. 11	1. 7	20. 6	1. 7	21. 2
3. 4	11. 15	F. In		3. 4	13. 5	3. 11	16. 4	1. 8	20. 0	1. 8	20. 12	1. 8	21. 8
3. 5	12. 4	1. 6		3. 5	13. 11	1. 0	16. 9	1. 9	20. 6	1. 9	21. 1	1. 9	21. 11
3. 6	12. 9	Length	Weight	3. 6	14. 0	1. 1	16. 15			1. 10	21. 7	1. 10	22. 1
3. 7	12. 13	F. In	St. Hb	3. 7	14. 6	1. 2	17. 1					1. 11	22. 10
3. 8	13. 2	1. 0	11. 9	3. 8	14. 11	1. 3	17. 10						
3. 9	13. 7	3. 1	11. 14	3. 9	15. 0	1. 4	17. 15						
3. 10	13. 11	3. 2	12. 3	3. 10	15. 6	1. 5	18. 5						
3. 11	14. 0	3. 3	12. 8	3. 11	16. 11	1. 6	18. 11						
1. 1	14. 5	3. 4	12. 12	1. 1	17. 0	1. 7	19. 0						



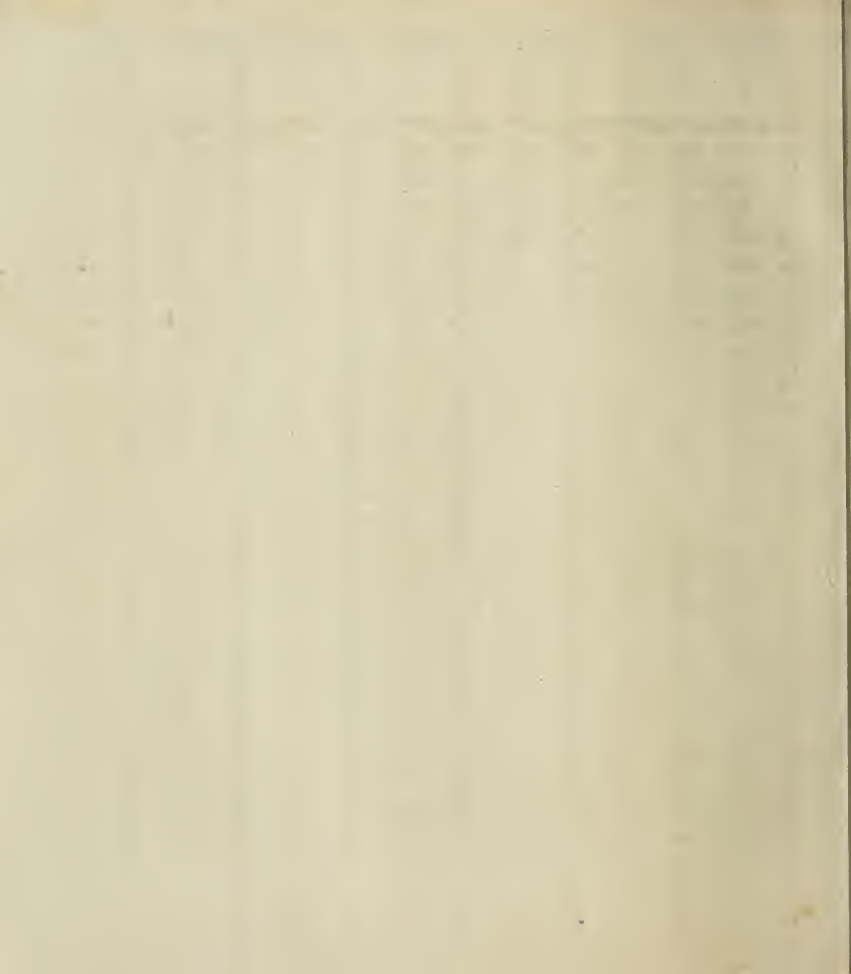
Girth		Girth		Girth		Girth		Girth		Girth		Girth	
F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb
5.0		5.1		5.2		5.3		5.4		5.5		5.6	
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight
F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb	F. In	Str. lb
3.2	15.2	3.2	15.0	3.2	16.0	3.2	16.1	3.3	17.10	3.4	18.10	3.6	20.2
3.3	15.8	3.3	15.15	3.3	16.7	3.3	16.8	3.4	18.0	3.5	19.0	3.7	20.10
3.4	15.11	3.4	16.7	3.4	16.11	3.4	16.15	3.5	18.7	3.6	19.8	3.8	21.2
3.5	16.1	3.5	16.15	3.5	17.4	3.5	17.6	3.6	19.0	3.7	19.15	3.9	21.10
3.6	16.10	3.6	17.4	3.6	17.11	3.6	17.12	3.7	19.7	3.8	20.6	3.10	22.1
3.7	17.0	3.7	17.10	3.7	18.3	3.7	18.3	3.8	19.11	3.9	20.14	3.11	22.0
3.8	17.7	3.8	18.1	3.8	18.10	3.8	18.10	3.9	20.5	3.10	21.5	4.	23.0
3.9	17.15	3.9	18.7	3.9	19.0	3.9	19.1	3.10	20.12	3.11	21.13	4.	23.8
3.10	18.1	3.10	18.14	3.10	19.7	3.10	19.8	3.11	21.1	4.	22.4	4.	24.0
3.11	18.10	3.11	19.5	3.11	19.14	3.11	20.0	4.	21.11	4.	22.12	4.	24.8
4.	19.0	4.	19.11	4.	20.5	4.	20.5	4.	22.2	4.	23.3	4.	25.0
4.	19.7	4.	20.2	4.	20.12	4.	20.10	4.	22.0	4.	23.11	4.	25.8
4.	20.14	4.	20.8	4.	21.2	4.	21.3	4.	23.0	4.	24.2	4.	25.15
4.	20.4	4.	20.15	4.	21.0	4.	21.10	4.	23.7	4.	24.9	4.	26.7
4.	20.10	4.	21.5	4.	22.0	4.	22.0	4.	23.15	4.	25.1	4.	26.14
4.	21.0	4.	21.12	4.	22.6	4.	22.7	4.	24.6	4.	25.10	4.	27.6
4.	21.7	4.	22.2	4.	22.13	4.	22.14	4.	24.13	4.	26.0	4.	27.14
4.	21.13	4.	22.0	4.	23.3	4.	23.4	4.	25.4	4.	26.7	4.	28.5
4.	22.4	4.	23.0	4.	23.10	4.	23.10	4.	25.12	4.	27.0	5.	28.13
4.	22.11	4.	23.8	4.	24.1	4.	24.0	4.	26.3	4.	27.7	5.	29.5
4.	23.3	4.	23.15	4.	24.7	4.	24.7	4.	26.10	5.	27.15	5.	29.12
4.	23.0	4.	24.6	4.	24.13	4.	25.0	5.	27.1	5.	28.5	5.	30.4
5.	24.0	5.	24.12	5.	25.3	5.	25.7	5.	27.8	5.	28.12	5.	30.11
				5.	25.10	5.	25.14	5.	28.0	5.	29.4	5.	31.3



Girth		Girth		Girth		Girth		Girth		Girth		Girth			
F. In.		E. In.		F. In.		E. In.		F. In.		E. In.		F. In.			
5	7	5	8	5	9	5	10	5	11	6	0	6	1		
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight		
F. In.	St. lb.	F. In.	St. lb.	F. In.	St. lb.	F. In.	St. lb.	F. In.	St. lb.	F. In.	St. lb.	F. In.	St. lb.		
3	7	21	4	3	8	22	7	3	9	23	12	3	10	24	13
3	8	21	12	3	9	22	15	3	10	24	1	3	11	25	6
3	9	22	1	3	10	23	7	3	11	24	12	4	0	25	15
3	10	22	12	3	11	23	15	4	0	25	3	4	1	26	7
3	11	23	1	4	0	24	7	4	1	25	10	4	2	27	0
4	0	23	12	4	1	25	0	4	2	26	6	4	3	27	9
4	1	24	1	4	2	25	8	4	3	26	13	4	4	28	1
4	2	24	12	4	3	26	0	4	4	27	4	4	5	28	10
4	3	25	1	4	1	26	8	4	5	27	12	4	6	29	2
4	4	25	10	4	5	27	0	4	7	29	11	4	8	31	11
4	5	26	2	4	6	27	8	4	7	28	11	4	8	30	4
4	6	26	10	4	7	28	0	4	8	29	6	4	9	30	12
4	7	27	2	4	8	28	8	4	9	29	11	4	10	31	5
4	8	27	10	4	9	29	1	4	10	30	7	4	11	31	11
4	9	28	2	4	10	29	9	4	11	30	15	5	0	32	6
4	10	28	10	4	11	30	1	5	1	32	15	5	3	34	15
4	11	29	2	5	0	30	9	5	1	31	15	5	2	33	7
5	0	29	10	5	1	31	1	5	2	33	7	5	4	35	8
5	1	30	3	5	2	31	9	5	3	32	7	5	5	36	0
5	2	30	10	5	3	32	2	5	4	33	8	5	5	35	2
5	3	31	3	5	4	32	10	5	6	35	10	5	7	37	2
5	4	31	10	5	5	33	2	5	6	34	8	5	7	36	3
5	5	32	3	5	6	33	11	5	7	35	1	5	8	36	12
5	6	32	11	5	7	34	3	5	8	35	9	5	9	37	4
5	7	33	1	5	8	35	9	5	9	37	4	5	10	37	13
5	8	33	8	5	9	36	12	5	10	38	13	5	11	37	11
5	9	34	3	5	10	37	1	5	11	39	6	6	0	38	3
5	10	34	10	5	11	38	3	6	0	39	6	6	1	42	14



Girth		Girth		Girth		Girth		Girth		Girth		Girth	
F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb
0 . 2		0 . 3		0 . 4		0 . 5		0 . 6		0 . 7		0 . 8	
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight
F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb	F. In	St. lb
4 . 3	30 . 12	4 . 4	32 . 1	4 . 4	33 . 2	4 . 4	33 . 15	4 . 5	35 . 0	4 . 5	36 . 7	4 . 5	37 . 0
4 . 4	31 . 0	4 . 5	32 . 11	4 . 5	33 . 12	4 . 5	34 . 10	4 . 6	36 . 3	4 . 6	37 . 2	4 . 6	38 . 2
4 . 5	31 . 15	4 . 6	33 . 8	4 . 6	34 . 0	4 . 6	35 . 4	4 . 7	36 . 11	4 . 7	37 . 13	4 . 7	38 . 13
4 . 6	32 . 0	4 . 7	34 . 1	4 . 7	35 . 0	4 . 7	35 . 15	4 . 8	37 . 0	4 . 8	38 . 8	4 . 8	39 . 8
4 . 7	33 . 3	4 . 8	34 . 11	4 . 8	35 . 10	4 . 8	36 . 0	4 . 9	38 . 3	4 . 9	39 . 3	4 . 9	40 . 3
4 . 8	33 . 12	4 . 9	35 . 5	4 . 9	36 . 5	4 . 9	37 . 3	4 . 10	38 . 11	4 . 10	39 . 11	4 . 10	40 . 15
4 . 9	34 . 0	4 . 10	35 . 15	4 . 10	36 . 15	4 . 10	37 . 11	4 . 11	39 . 9	4 . 11	40 . 9	4 . 11	41 . 10
4 . 10	35 . 0	4 . 11	36 . 0	4 . 11	37 . 0	4 . 11	38 . 0	5 . 0	40 . 3	5 . 0	41 . 4	5 . 0	42 . 0
4 . 11	35 . 9	5 . 0	37 . 2	5 . 0	38 . 3	5 . 0	39 . 5	5 . 1	40 . 11	5 . 1	41 . 15	5 . 1	43 . 0
5 . 0	36 . 4	5 . 1	37 . 12	5 . 1	38 . 13	5 . 1	39 . 11	5 . 2	41 . 9	5 . 2	42 . 10	5 . 2	43 . 12
5 . 1	36 . 11	5 . 2	38 . 7	5 . 2	39 . 7	5 . 2	40 . 8	5 . 3	42 . 4	5 . 3	43 . 5	5 . 3	44 . 7
5 . 2	37 . 7	5 . 3	39 . 1	5 . 3	40 . 2	5 . 3	41 . 3	5 . 4	42 . 15	5 . 4	44 . 0	5 . 4	45 . 2
5 . 3	38 . 0	5 . 4	39 . 10	5 . 4	40 . 12	5 . 4	41 . 13	5 . 5	43 . 10	5 . 5	44 . 12	5 . 5	45 . 11
5 . 4	38 . 10	5 . 5	40 . 1	5 . 5	41 . 0	5 . 5	42 . 7	5 . 6	44 . 4	5 . 6	45 . 0	5 . 6	46 . 9
5 . 5	39 . 3	5 . 6	40 . 11	5 . 6	42 . 0	5 . 6	43 . 2	5 . 7	44 . 15	5 . 7	46 . 1	5 . 7	47 . 5
5 . 6	39 . 15	5 . 7	41 . 8	5 . 7	42 . 10	5 . 7	43 . 13	5 . 8	45 . 10	5 . 8	46 . 12	5 . 8	47 . 15
5 . 7	40 . 7	5 . 8	42 . 2	5 . 8	43 . 4	5 . 8	44 . 7	5 . 9	46 . 4	5 . 9	47 . 7	5 . 9	48 . 11
5 . 8	41 . 1	5 . 9	42 . 12	5 . 9	43 . 15	5 . 9	45 . 1	5 . 10	46 . 15	5 . 10	48 . 2	5 . 10	49 . 6
5 . 9	41 . 10	5 . 10	43 . 0	5 . 10	44 . 9	5 . 10	45 . 12	5 . 11	47 . 10	5 . 11	48 . 13	5 . 11	50 . 1
5 . 10	42 . 3	5 . 11	44 . 0	5 . 11	45 . 2	5 . 11	47 . 7	6 . 0	48 . 5	6 . 0	49 . 8	6 . 0	50 . 13
5 . 11	42 . 11	6 . 0	44 . 10	6 . 0	45 . 12	6 . 0	48 . 1	6 . 1	49 . 0	6 . 1	50 . 3	6 . 1	51 . 8
6 . 0	43 . 7	6 . 1	45 . 4	6 . 1	46 . 0	6 . 1	48 . 12	6 . 2	50 . 10	6 . 2	50 . 11	6 . 2	52 . 3
6 . 1	44 . 3	6 . 2	45 . 11	6 . 2	47 . 0	6 . 2	49 . 0	6 . 3	51 . 5	6 . 3	51 . 9	6 . 3	52 . 15
6 . 2	44 . 11	6 . 3	46 . 8	6 . 3	47 . 11	6 . 3	50 . 1	6 . 4	52 . 0	6 . 4	52 . 3	6 . 4	53 . 10



Girth		Girth		Girth		Girth		Girth		Girth		Girth			
F.	In	F.	In	F.	In	F.	In	F.	In	F.	In	F.	In		
6 . 0	0	6 . 11	0	6 . 11	0	7 . 0	0	7 . 1	0	7 . 2	0	7 . 3	0		
Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight	Length	Weight		
F.	In	St.	lb	F.	In	St.	lb	F.	In	St.	lb	F.	In	St.	lb
1 . 5	38 . 0	1 . 5	30 . 1	1 . 6	11 . 0	1 . 7	12 . 12	1 . 7	13 . 13	1 . 8	15 . 10	1 . 9	10 . 12		
1 . 6	39 . 1	1 . 6	10 . 0	1 . 7	11 . 12	1 . 8	13 . 9	1 . 8	11 . 10	1 . 9	10 . 7	1 . 9	17 . 9		
1 . 7	39 . 13	1 . 7	10 . 12	1 . 8	12 . 8	1 . 9	11 . 5	1 . 9	15 . 0	1 . 10	17 . 1	1 . 10	19 . 0		
1 . 8	10 . 8	1 . 8	11 . 8	1 . 9	13 . 1	1 . 10	15 . 2	1 . 10	10 . 3	1 . 11	18 . 1	1 . 11	19 . 3		
1 . 9	11 . 3	1 . 9	12 . 5	1 . 10	11 . 1	1 . 11	15 . 11	1 . 11	10 . 15	5 . 0	19 . 11	5 . 0	50 . 1		
1 . 10	11 . 15	1 . 10	12 . 15	1 . 11	11 . 13	5 . 0	10 . 11	5 . 0	17 . 13	5 . 1	10 . 11	5 . 1	11 . 11		
1 . 11	12 . 10	1 . 11	13 . 12	5 . 0	15 . 0	5 . 1	17 . 7	5 . 1	18 . 9	5 . 2	50 . 8	5 . 2	52 . 12		
5 . 0	13 . 0	5 . 0	11 . 7	5 . 1	10 . 5	5 . 2	18 . 3	5 . 2	19 . 0	5 . 3	51 . 5	5 . 3	52 . 9		
5 . 1	11 . 2	5 . 1	15 . 3	5 . 2	17 . 1	5 . 3	19 . 0	5 . 3	50 . 3	5 . 4	52 . 3	5 . 4	53 . 0		
5 . 2	11 . 13	5 . 2	15 . 15	5 . 3	17 . 13	5 . 4	19 . 12	5 . 4	50 . 15	5 . 5	52 . 15	5 . 5	51 . 3		
5 . 3	15 . 9	5 . 3	10 . 11	5 . 4	18 . 9	5 . 5	50 . 9	5 . 5	51 . 10	5 . 6	53 . 12	5 . 6	55 . 1		
5 . 4	10 . 5	5 . 4	17 . 7	5 . 5	19 . 5	5 . 6	51 . 5	5 . 6	52 . 9	5 . 7	54 . 10	5 . 7	55 . 11		
5 . 5	17 . 0	5 . 5	18 . 3	5 . 6	50 . 2	5 . 7	52 . 2	5 . 7	53 . 0	5 . 8	55 . 7	5 . 8	56 . 12		
5 . 6	17 . 12	5 . 6	18 . 15	5 . 7	50 . 11	5 . 8	52 . 11	5 . 8	51 . 2	5 . 9	50 . 3	5 . 9	57 . 9		
5 . 7	18 . 7	5 . 7	19 . 11	5 . 8	51 . 10	5 . 9	53 . 11	5 . 9	54 . 15	5 . 10	57 . 1	5 . 10	58 . 0		
5 . 8	19 . 3	5 . 8	50 . 0	5 . 9	52 . 0	5 . 10	51 . 7	5 . 10	55 . 12	5 . 11	57 . 11	5 . 11	59 . 3		
5 . 9	19 . 15	5 . 9	51 . 2	5 . 10	53 . 2	5 . 11	55 . 3	5 . 11	50 . 9	0 . 0	58 . 11	0 . 10	00 . 1		
5 . 10	50 . 10	5 . 10	51 . 11	5 . 11	53 . 15	0 . 0	50 . 0	0 . 0	57 . 5	0 . 1	59 . 8	0 . 1	00 . 11		
5 . 11	51 . 0	5 . 11	52 . 10	0 . 0	51 . 11	0 . 1	50 . 12	0 . 1	58 . 2	0 . 2	00 . 5	0 . 2	01 . 12		
0 . 0	52 . 1	0 . 0	53 . 0	0 . 1	55 . 7	0 . 2	57 . 9	0 . 2	58 . 15	0 . 3	01 . 2	0 . 3	02 . 9		
0 . 1	52 . 13	0 . 1	54 . 2	0 . 2	56 . 3	0 . 3	58 . 5	0 . 3	59 . 12	0 . 4	01 . 15	0 . 4	03 . 7		
0 . 2	53 . 8	0 . 2	54 . 13	0 . 3	56 . 15	0 . 4	59 . 2	0 . 4	00 . 8	0 . 5	02 . 12	0 . 5	04 . 3		
0 . 3	54 . 2	0 . 3	55 . 9	0 . 4	57 . 12	0 . 5	59 . 11	0 . 5	01 . 5	0 . 6	03 . 10	0 . 6	05 . 1		
0 . 4	54 . 15	0 . 4	56 . 2	0 . 5	58 . 7	0 . 6	00 . 10	0 . 6	02 . 2	0 . 7	04 . 7	0 . 7	05 . 11		

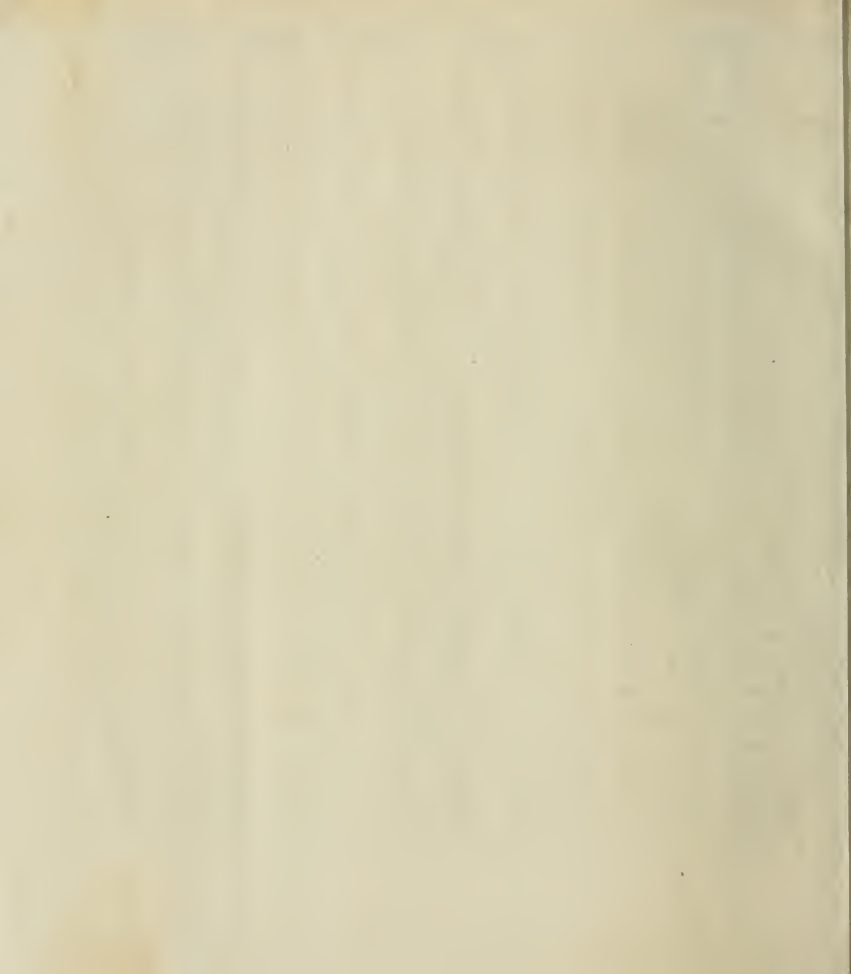






TABLE Shewing the Comparison of the WEIGHT used at EDINBURGH

To these in use at the under mentioned Places

Edin ^r Weight 17 $\frac{1}{2}$ Oz. to lb. Stones	Dutch W ^t 16 Oz. to lb. Stones	Scots W ^t 24 Oz. to lb. Stones	English W ^t 14 lb. to St. Stones	Smithfield W ^t 8 lb. to the Stone Stones	West Country W ^t 22 Oz. to lb. Stones
1	1 $\frac{1}{8}$	0 $\frac{3}{4}$	1 $\frac{1}{4}$	2 $\frac{1}{4}$	0 $\frac{3}{4}$
2	2 $\frac{1}{4}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$
3	3 $\frac{1}{4}$	2 $\frac{1}{4}$	3 $\frac{3}{4}$	6 $\frac{1}{2}$	2 $\frac{1}{4}$
4	4 $\frac{1}{2}$	2 $\frac{3}{4}$	5	8 $\frac{3}{4}$	3
5	5 $\frac{1}{2}$	3 $\frac{1}{2}$	6 $\frac{1}{4}$	11	4
6	6 $\frac{1}{2}$	4 $\frac{1}{4}$	7 $\frac{1}{2}$	13	4 $\frac{3}{4}$
7	7 $\frac{3}{4}$	5	8 $\frac{3}{4}$	15 $\frac{1}{4}$	5 $\frac{1}{2}$
8	8 $\frac{3}{4}$	5 $\frac{3}{4}$	10	17 $\frac{1}{2}$	6 $\frac{1}{4}$
9	9 $\frac{3}{4}$	6 $\frac{1}{2}$	11 $\frac{1}{4}$	19 $\frac{1}{2}$	7
10	11	7 $\frac{1}{4}$	12 $\frac{1}{2}$	21 $\frac{3}{4}$	8
20	21 $\frac{3}{4}$	14 $\frac{1}{2}$	25	43 $\frac{3}{4}$	16
30	32 $\frac{3}{4}$	21 $\frac{3}{4}$	37 $\frac{1}{4}$	65 $\frac{1}{2}$	24 $\frac{1}{4}$
40	43 $\frac{3}{4}$	29	50	87 $\frac{1}{2}$	31 $\frac{1}{2}$
50	54 $\frac{3}{4}$	36 $\frac{1}{4}$	62 $\frac{1}{2}$	109 $\frac{1}{4}$	39 $\frac{3}{4}$
60	65 $\frac{1}{2}$	43 $\frac{1}{2}$	75	131	47 $\frac{3}{4}$
70	76 $\frac{1}{2}$	50 $\frac{3}{4}$	87 $\frac{1}{2}$	153	55 $\frac{1}{2}$
80	87 $\frac{1}{2}$	58	100	175	63 $\frac{1}{2}$
90	98 $\frac{1}{2}$	65 $\frac{1}{4}$	112 $\frac{1}{2}$	196 $\frac{3}{4}$	71 $\frac{1}{2}$
100	109 $\frac{1}{4}$	72 $\frac{1}{2}$	125	218 $\frac{3}{4}$	79 $\frac{1}{2}$
200	218 $\frac{3}{4}$	145	250	437 $\frac{1}{2}$	159
300	328	217 $\frac{1}{2}$	375	656 $\frac{1}{4}$	238 $\frac{1}{2}$
400	437 $\frac{1}{4}$	290	500	875	318

A.B. The Fractions for each lb^s is not included, but are set down to halves & quarters, which they com^e in
usur'd



A Comparatibe View

.....(O).....
of THE LIVE and DEAD WEIGHT of

SWINE, SHEEP, LAMBS, CALVES.

and

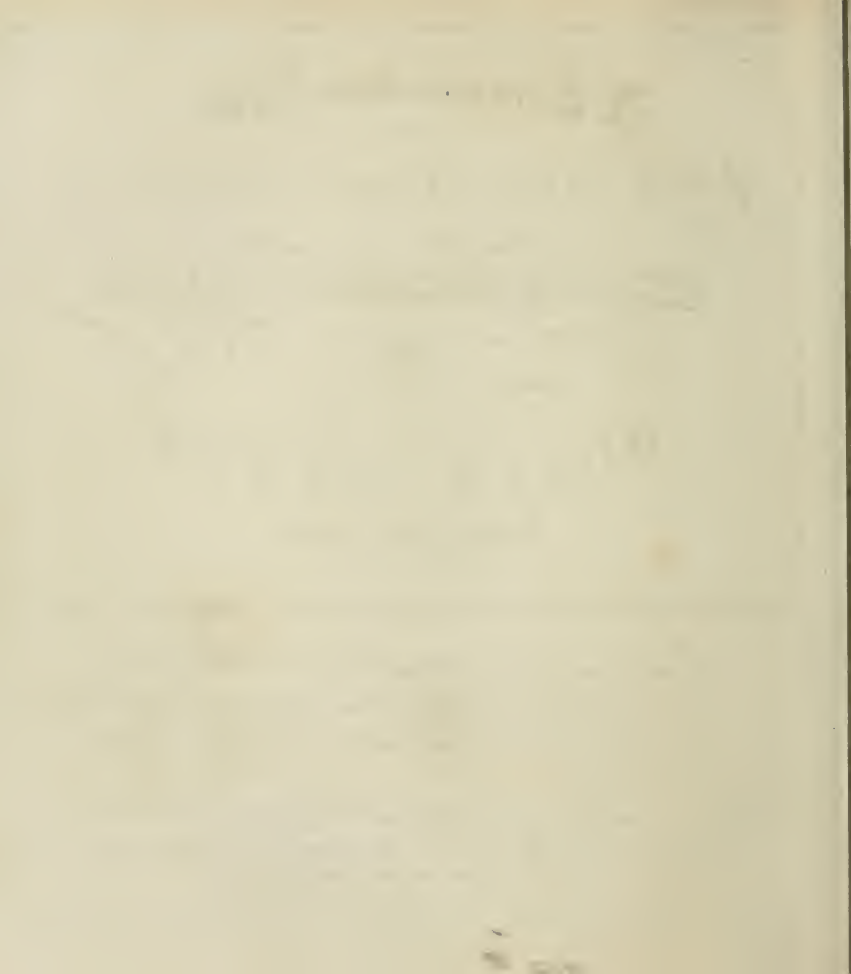
.....(O).....
BLACK CATTLE

Sinking the Offals.

SOLD BY A. CONSTABLE & CO EDINBURGH. & HURST, ROBINSON & CO LONDON.

Let the Beast when in Life be Weighed on a Steelyard or any other Weighing Machine. The Weight of the four Quarters when Killed, will be found out in the opposite column to the Weight.

N.B. It is generally supposed that the Hide, Tallow, and other offals, is nearly of the Value of One quarter, and the Value of the Offals of Swine, about One eight of the four Quarters.



Live W ^t of Swine	Weight of the four Quarters		Live W ^t of Swine	Weight of the four Quarters		Live W ^t of Sheep & Lambs	Weight of the four Quarters		Live W ^t of Black Cattle	Weight of the four Quarters	
<i>Stones</i>	<i>St.^s</i>	<i>Tb.^s</i>	<i>Stones</i>	<i>St.^s</i>	<i>Tb.^s</i>	<i>Stones</i>	<i>St.^s</i>	<i>Tb.^s</i>	<i>Stones</i>	<i>St.^s</i>	<i>Tb.^s</i>
1	"	12	13½	10	2	1	"	8	1	"	9
1½	1	2	14	10	8	1½	"	12	2	1	2
2	1	8	14½	10	14	2	1	"	3	1	11
2½	1	14	15	11	4	2½	1	4	4	2	4
3	2	4	15½	11	12	3	1	8	5	2	13
3½	2	10	16	12	2	3½	1	12	6	3	6
4	3	"	16½	12	8	4	2	"	7	3	15
4½	3	6	17	12	14	4½	2	4	8	4	8
5	3	12	17½	13	4	5	2	8	9	5	1
5½	4	2	18	13	10	5½	2	12	10	5	10
6	4	8	18½	14	"	6	3	"	11	6	3
6½	4	14	19	14	6	6½	3	4	12	6	12
7	5	4	19½	14	12	7	3	8	13	7	5
7½	5	10	20	15	2	7½	3	12	14	7	14
8	6	"	20½	15	8	8	4	"	15	8	7
8½	6	6	21	15	14	8½	4	4	16	9	"
9	6	12	21½	16	4	9	4	8	17	9	9
9½	7	2	22	16	10	9½	4	12	18	10	2
10	7	8	22½	17	"	10	5	"	19	10	11
10½	7	14	23	17	6	10½	5	4	20	11	4
11	8	4	23½	17	12	11	5	8	21	11	13
11½	8	10	24	18	2	11½	5	12	22	12	6
12	9	"	24½	18	8	12	6	"	23	12	15
12½	9	6	25	18	14	12½	6	4	24	13	8
13	9	12	25½	19	4	13	6	8	25	14	1

Live Weight of Swine and Pigs 17½ O^s. to the lb. and 16 lb. to the Stone

Live Weight of Swine 17 O^s. to the lb. and 16 lb. to the Stone

Live Weight of Sheep and Lambs 17½ O^s. to the lb. and 16 lb. to the Stone

Live Weight of Cattle and Calves 17½ O^s. to the lb. and 16 lb. to the Stone

Live Weight	Weight of the four Quarters		Live Weight	Weight of the four Quarters		Live Weight	Weight of the four Quarters		Live Weight	Weight of the four Quarters	
<i>Stones</i>	<i>St.</i>	<i>Lb.</i>	<i>Stones</i>	<i>St.</i>	<i>Lb.</i>	<i>Stones</i>	<i>St.</i>	<i>Lb.</i>	<i>Stones</i>	<i>St.</i>	<i>Lb.</i>
26	14	10	51	28	11	76	42	12	101	56	13
27	15	3	52	29	4	77	43	5	102	57	6
28	15	12	53	29	13	78	43	14	103	57	15
29	16	5	54	30	6	79	44	7	104	58	8
30	16	14	55	30	15	80	45	..	105	59	1
31	17	7	56	31	8	81	45	9	106	59	10
32	18	..	57	32	1	82	46	2	107	60	3
33	18	9	58	32	10	83	46	11	108	60	12
34	19	2	59	33	3	84	47	4	109	61	5
35	19	11	60	33	12	85	47	13	110	61	14
36	20	4	61	34	5	86	48	6	111	62	7
37	20	13	62	34	14	87	48	15	112	63	..
38	21	6	63	35	7	88	49	8	113	63	9
39	21	15	64	36	..	89	50	1	114	64	2
40	22	8	65	36	9	90	50	10	115	64	11
41	23	1	66	37	2	91	51	3	116	65	4
42	23	10	67	37	11	92	51	12	117	65	13
43	24	3	68	38	4	93	52	5	118	66	6
44	24	12	69	38	13	94	52	14	119	66	15
45	25	5	70	39	6	95	53	7	120	67	8
46	25	14	71	39	15	96	54	..	121	68	1
47	26	7	72	40	8	97	54	9	122	68	10
48	27	..	73	41	1	98	55	2	123	69	3
49	27	9	74	41	10	99	55	11	124	69	12
50	28	2	75	42	3	100	56	4	125	70	5

Live Weight of Cattle 17½ O_z. to the lb. and 16 lb. to the Stone

Live Weight of Cattle 17¼ O_z. to the lb. and 16 lb. to the Stone

Live Weight of Cattle 17½ O_z. to the lb. and 16 lb. to the Stone

Live Weight of Cattle 17¼ O_z. to the lb. and 16 lb. to the Stone



ANOTHER METHOD

of Ascertaining the Weight of the four Quarters of Cattle when Weighed in Life. Suppose the Live Weight of a Bullock to be 57 Score or 1140 lb^s: take the Half of that sum which is 570 lb^s: again take $\frac{1}{3}$ of 570 which is 71 (nearly) then add these sums together which makes 641 lb^s: is the Weight of the 4 quarters by dividing 641 by the number of Ounces in a Pound or by the number of lb^s in a Stone used in different Places the quotient will give the Weight in Stones and Pounds for each place sinking Offals. A few examples as below.

<p>Smidfield 8 lb. to a Stⁿ.</p> <p style="text-align: center;">lb. lb. St. lb.</p> <p style="text-align: center;">8)641(80.1</p> $\begin{array}{r} 64 \\ \hline 1 \end{array}$	<p>Dutch 16 Oz^s. to a lb.</p> <p style="text-align: center;">Oz^s lb^s St. lb.</p> <p style="text-align: center;">16)641(40.1</p> $\begin{array}{r} 64 \\ \hline 1 \end{array}$	<p>Glasgow 22 Oz^s. to a lb.</p> <p style="text-align: center;">Oz^s lb^s St. lb^s</p> <p style="text-align: center;">22)641(29.3</p> $\begin{array}{r} 44 \\ 201 \\ 198 \\ \hline 3 \end{array}$
<p>English 14 Oz^s to a lb.</p> <p style="text-align: center;">Oz^s lb^s St. lb^s</p> <p style="text-align: center;">14)641(45.11</p> $\begin{array}{r} 56 \\ \hline 81 \\ \hline 71 \\ \hline 11 \end{array}$	<p>Edinburgh 17$\frac{1}{2}$ Oz^s to a lb.</p> <p style="text-align: center;">Oz^s lb^s St. lb^s</p> <p style="text-align: center;">17.5)641.0(36.11</p> $\begin{array}{r} 525 \\ \hline 1160 \\ \hline 1050 \\ \hline 110 \end{array}$	<p>Scots 24 Oz^s to a lb.</p> <p style="text-align: center;">Oz^s lb^s St. lb^s</p> <p style="text-align: center;">24)641(26.17</p> $\begin{array}{r} 48 \\ \hline 161 \\ \hline 144 \\ \hline 17 \end{array}$

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY OF ORGANIC CHEMISTRY

CHICAGO, ILLINOIS

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2

**BLACK CATTLE
AND SHEEP
FED ON TURNIPS
GRASS OR HAY
Per Night.**

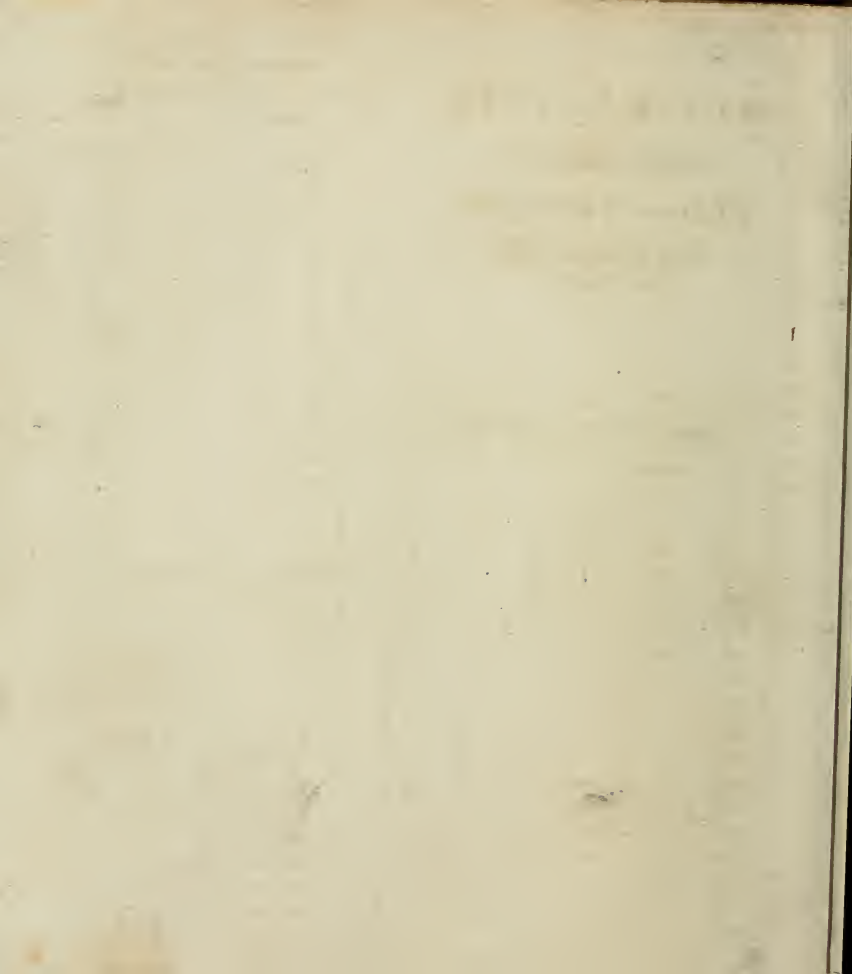
Sheep at 1/4 per Night.

	<i>Sheep</i>	<i>£</i>	<i>S</i>	<i>D</i>
1	—	—	—	— ¹ / ₄
2	—	—	—	7 ¹ / ₂
3	—	—	—	9 ¹ / ₂
4	—	—	—	1
5	—	—	—	1 ¹ / ₂
6	—	—	—	1 ¹ / ₂
7	—	—	—	1 ³ / ₄
8	—	—	—	2
9	—	—	—	2 ¹ / ₄
10	—	—	—	2 ¹ / ₂
11	—	—	—	2 ³ / ₄
12	—	—	—	3
13	—	—	—	3 ¹ / ₂
14	—	—	—	3 ³ / ₄
15	—	—	—	3 ³ / ₄
16	—	—	—	4
17	—	—	—	4 ¹ / ₄
18	—	—	—	4 ¹ / ₂
19	—	—	—	4 ³ / ₄

Black Cattle Fed at 4^d per Night.

	<i>Cow or Ox</i>	<i>£</i>	<i>S</i>	<i>D</i>
1	—	—	—	4
2	—	—	—	8
3	—	—	1	—
4	—	—	1	4
5	—	—	1	8
6	—	—	2	—
7	—	—	2	4
8	—	—	2	8
9	—	—	3	—
10	—	—	3	4
20	—	—	6	8
30	—	—	10	—
40	—	—	13	4
50	—	—	16	8
60	—	—	—	—
70	—	1	3	4
80	—	1	6	8
90	—	1	10	—
100	—	1	13	4

	<i>Score</i>	<i>£</i>	<i>S</i>	<i>D</i>
1	—	—	—	5
2	—	—	—	10
3	—	—	1	3
4	—	—	1	8
5	—	—	2	1
6	—	—	2	6
7	—	—	2	11
8	—	—	3	4
9	—	—	3	9
10	—	—	4	2
20	—	—	8	4
30	—	—	12	6
40	—	—	16	8
50	—	—	—	10



Sheep at 7^s per Night.

Sheep at 5^s per Night.

Sheep at 1^d per Night.

	£	S	D
1 Sheep	—	—	1 ²
2 —	—	—	1
3 —	—	—	1 ²
4 —	—	—	2
5 —	—	—	2 ²
6 —	—	—	3
7 —	—	—	3 ²
8 —	—	—	4
9 —	—	—	4 ²
10 —	—	—	5
11 —	—	—	5 ²
12 —	—	—	6
13 —	—	—	6 ²
14 —	—	—	7
15 —	—	—	7 ²
16 —	—	—	8
17 —	—	—	8 ²
18 —	—	—	9
19 —	—	—	9 ²
1 Score	—	—	10
2 —	—	1	3
3 —	—	2	6
4 —	—	3	4
5 —	—	4	2
6 —	—	5	—
7 —	—	5	10
8 —	—	6	8
9 —	—	7	6
10 —	—	8	4
20 Score	—	10	3
30 —	1	5	—
40 —	1	13	4
50 —	2	1	8

	£	S	D
1 Sheep	—	—	1 ²
2 —	—	—	1 ²
3 —	—	—	2 ²
4 —	—	—	3
5 —	—	—	3 ²
6 —	—	—	4 ²
7 —	—	—	5 ²
8 —	—	—	6
9 —	—	—	6 ²
10 —	—	—	7 ²
11 —	—	—	8 ²
12 —	—	—	9
13 —	—	—	9 ²
14 —	—	—	10 ²
15 —	—	—	11 ²
16 —	—	1	—
17 —	—	1	5 ²
18 —	—	1	1 ²
19 —	—	1	2 ²
1 Score	—	1	3
2 —	—	2	6
3 —	—	3	9
4 —	—	5	—
5 —	—	6	3
6 —	—	7	6
7 —	—	8	9
8 —	—	10	—
9 —	—	11	3
10 —	—	12	6
20 Score	1	5	—
30 —	1	17	6
40 —	2	10	—
50 —	3	2	6

	£	S	D
1 Sheep	—	—	1
2 —	—	—	2
3 —	—	—	3
4 —	—	—	4
5 —	—	—	5
6 —	—	—	6
7 —	—	—	7
8 —	—	—	8
9 —	—	—	9
10 —	—	—	10
11 —	—	—	11
12 —	—	1	—
13 —	—	1	1
14 —	—	1	2
15 —	—	1	3
16 —	—	1	4
17 —	—	1	5
18 —	—	1	6
19 —	—	1	7
1 Score	—	1	8
2 —	—	3	4
3 —	—	5	—
4 —	—	6	8
5 —	—	8	4
6 —	—	10	—
7 —	—	11	8
8 —	—	13	4
9 —	—	15	—
10 —	—	16	8
20 Score	1	13	4
30 —	2	10	—
40 —	3	6	8
50 —	4	5	4



Sheep at 1/4 per Night

Sheep at 1/2 per Night

Sheep at 1/2 per Night

	£	S	D
1 Sheep			1 1/4
2			2 1/2
3			3 3/4
4			5
5			6 1/4
6			7 1/2
7			8 3/4
8			10
9			11 1/4
10	1		7 1/2
11	1		1 3/4
12	1		3
13	1		4 1/4
14	1		5 1/2
15	1		6 3/4
16	1		8
17	1		9 1/4
18	1		10 1/2
19	1		11 3/4

	£	S	D
1 Sheep			1 1/2
2			3
3			4 1/2
4			6
5			7 1/2
6			9
7			10 1/2
8		1	
9		1	1 1/2
10		1	3
11		1	4 1/2
12		1	6
13		1	7 1/2
14		1	9
15		1	10 1/2
16		1	
17		2	1 1/2
18		2	3
19		2	4 1/2

	£	S	D
1 Sheep			1 3/4
2			3 1/4
3			5 1/4
4			7
5			8 1/4
6			10 1/4
7		1	1 1/4
8		1	2
9		1	3 1/4
10		1	5 1/4
11		1	7 1/4
12		1	9
13		1	10 1/4
14		2	1 1/4
15		2	3 1/4
16		2	4
17		2	5 1/4
18		2	7 1/4
19		2	9 1/4

1 Score		2	1
2		4	2
3		6	3
4		8	4
5		10	5
6		12	6
7		14	7
8		16	8
9		18	9
10	21		10

1 Score		2	6
2		5	
3		7	6
4		10	
5		12	6
6		15	
7		17	6
8	1		
9	1	2	6
10	1	5	

1 Score		2	11
2		5	10
3		8	9
4		11	8
5		14	7
6		17	6
7	1		5
8	1	3	4
9	1	6	3
10	1	9	2

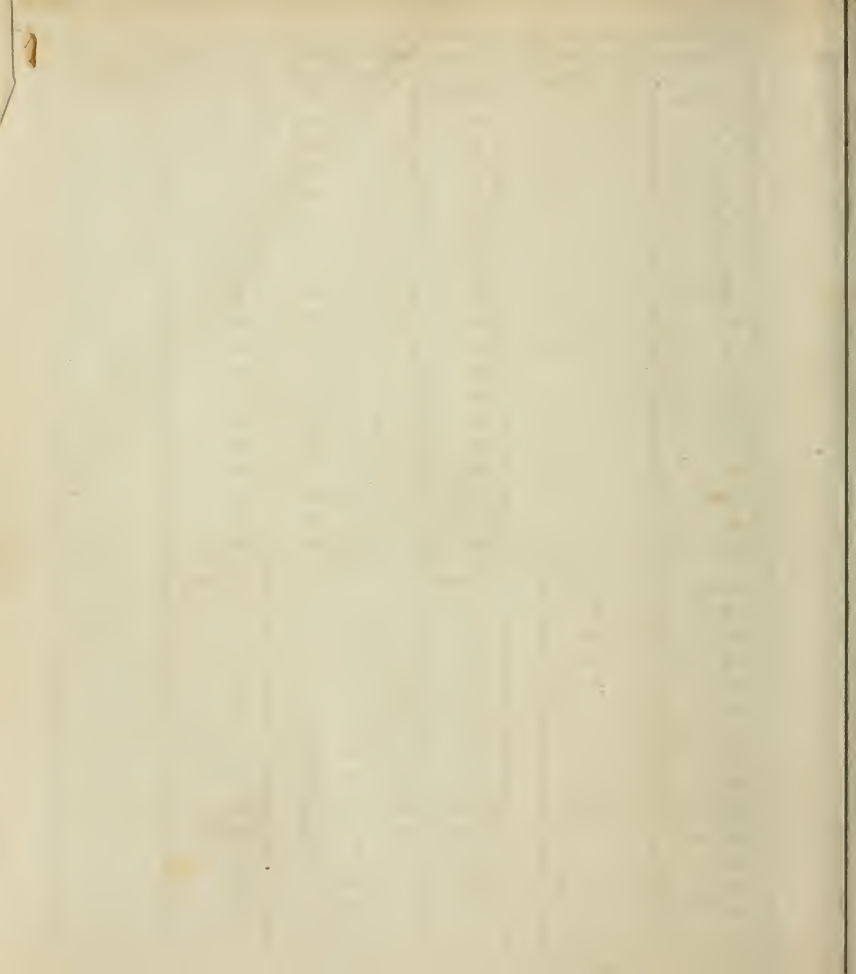
20 Score	2	1	8
30	3	2	6
40	4	3	4
50	5	4	2

20 Score	2	10	
30	3	15	
40	5		
50	6	5	

20 Score	2	18	4
30	4	7	6
40	5	16	8
50	7	5	10



Sheep at 2 ^d per Night				Sheep at 2 ^d per Night				Sheep at 2 ^d per Night			
1 Sheep	£	S	D	1 Sheep	£	S	D	1 Sheep	£	S	D
2			4	2			4 ⁰ / ₂	2			5
3			6	3			6 ⁰ / ₂	3			7 ⁰ / ₂
4			8	4			8	4			10
5			10	5			10 ⁰ / ₂	5		1	12
6		1		6		1	12 ⁰ / ₂	6		1	3
7		1	2	7		1	32 ⁰ / ₂	7		1	5 ⁰ / ₂
8		1	4	8		1	6	8		1	8
9		1	6	9		1	8 ⁰ / ₂	9		1	10 ⁰ / ₂
10		1	8	10		1	10 ⁰ / ₂	10		2	1
11		1	10	11		2	2 ⁰ / ₂	11		2	8 ⁰ / ₂
12		2		12		2	3	12		2	6
13		2	2	13		2	5 ⁰ / ₂	13		2	8 ⁰ / ₂
14		2	4	14		2	7 ⁰ / ₂	14		2	11
15		2	6	15		2	9 ⁰ / ₂	15		3	1 ⁰ / ₂
16		2	8	16		3		16		3	4
17		2	10	17		2	1 ⁰ / ₂	17		3	6 ⁰ / ₂
18		3		18		3	2 ⁰ / ₂	18		3	9
19		3	2	19		3	6 ⁰ / ₂	19		3	11 ⁰ / ₂
1 Score		3	4	1 Score		3	9	1 Score		4	2
2		6	8	2		7	6	2		8	4
3		10		3		11	3	3		12	6
4		13	4	4		15		4		16	8
5		16	8	5		18	9	5	£1		10
6	£1			6	£1	2	6	6	1	5	
7	1	3	4	7	1	6	3	7	1	9	2
8	1	6	8	8	1	10		8	1	12	4
9	1	10		9	1	13	9	9	1	17	6
10	1	13	4	10	1	17	6	10	2	1	8
20 Score	£3	6	8	20 Score	£3	15		20 Score	£4	3	4
30	5			30	5	18	6	30	6	5	
40	6	13	4	40	7	10		40	8	6	8
50	8	6	8	50	9	7	6	50	10	8	4







UC SOUTHERN REGIONAL LIBRARY FACILITY



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