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THE

GENTLEMAN AND FARMER's

POCKET COMPANION

AND

ASSISTANT:

CONSISTING OF

TABLES

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.

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1802.

TO THE

GENTLEMEN AND FARMERS OF SCOTLAND,

THIS WORK,

COMPOSED FOR THEIR CONVENIENCE,

IS PRESENTED,

WITH THE GREATEST RESPECT,

BY THEIR MOST OBEDIENT SERVANT,

JOHN AINSLIE.

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☞ *A very few figures have been mistaken in the printing; but the Author has corrected them with the pen.*

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-measurer, 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 *pacing* 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, howing, 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.

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 one foot distant from one another to three 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 L. 1 to L. 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 L. 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.

A.	R.	F.	E.
9	—	25	20
5	3	0	35
10	3	9	30
25	2	36	13

EXAMPLE II.

A.	R.	F.	E.
—	3	8	5
6	2	18	10
8	1	12	16
15	2	38	31

EXAMPLE III.

A.	R.	F.	E.
10	2	20	18
12	3	32	17
15	2	16	12
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.

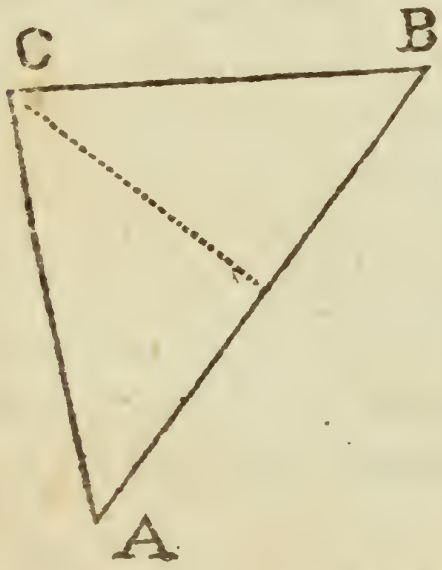
It will be necessary to be provided with two or three polls, hay-forks, rake-shafts, turnip-polls, or any other long sticks to make station staffs of, with the tape or cord before described, with ten pins, about nine inches long, made of pieces of wood (or of iron, which is better), and with a common 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 poll 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 makes 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 350 ells.

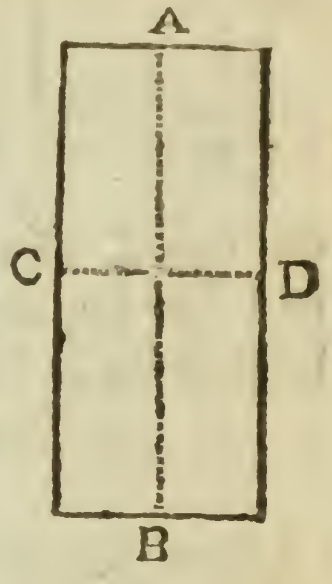
Explanation.—Look at the top of the table for 305 ells, which is the half of the line AB, and carry your eye down that column till you

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 305 ells long, and	opposite 300 ells wide is .	15	3	21	24
	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 fields are not fences, but are lines that are measured for finding out the contents; and the reason of taking the half of either 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.

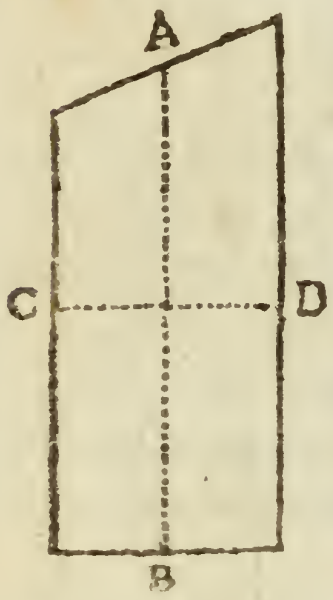


Explanation.—Measure the length in the middle from A to B, which is 482 ells, and the breadth from C to D, 220½ ells. If you cannot conveniently measure through the middle of the field for standing corn, you may take the length of the lines D and C, and add them together, and take their half; which will 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 482 ells long, and	opposite 200 ells wide is .	16	2	37	28
	opposite 20 ditto is	1	2	27	28
Look at the top for 241 ells, and opposite 1 ell wide, for the half ell,	. . . .	—	—	6	25
	The sum is the contents, ...	18	1	32	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.



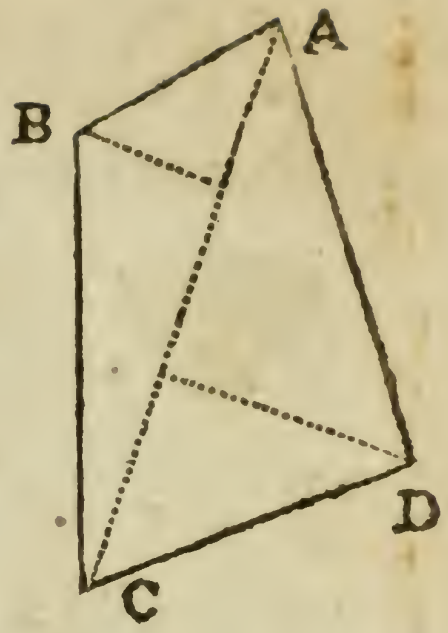
The adjoining figure is the representation of a field, which is longer on one side than the other, marked ABCD.

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 462½, and add these two lengths together, and take their half for a mean length, which is 512¼ 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 512 ells long, and	opposite 200 ells wide is .	17	3	4	16
	opposite 50 dittto is . . .	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.

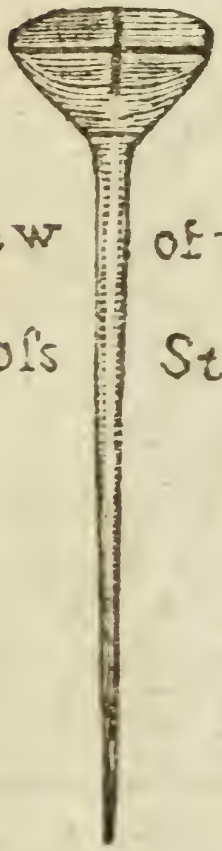
The contents are found in the Tables thus:

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 at the top, and	opposite 400 ells wide is . .	21	2	15	20
	opposite 40 ditto is	2	—	25	20
The amount of the four-sided figure sought . . .		23	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.

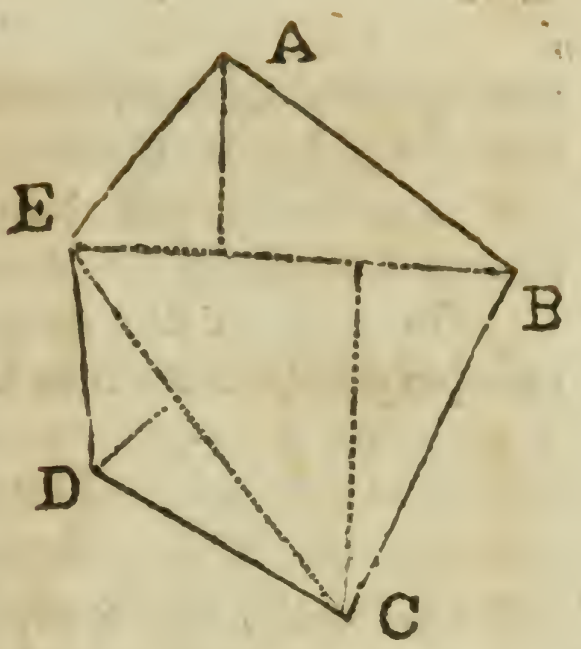
Top of the Cross Staff.



View 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 poll 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.



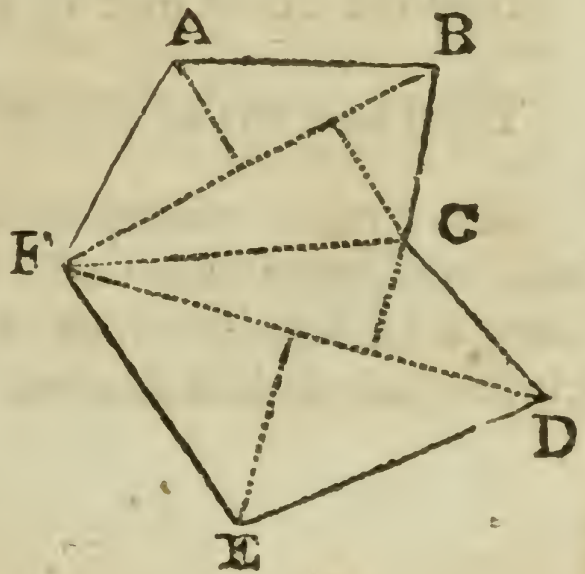
Explanation.—1st, Measure the diagonal from B to E, which is 462 ells, and leave marks opposite the angles C and A upon the diagonal; you then go back to your mark opposite A, and measure to the angle at A, which is 200 ells; then go to the mark you left opposite the angle at C, and measure to C, which 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 ells long, and opposite to 280 ells wide is	16	—	6	24
opposite to 80 ditto is	6	1	26	24
Amount of that part of the field ABCE	22	1	33	12
Again, look into the Table for 492 ells long, and opposite to 50 ells wide is	4	1	3	12
opposite to 2 ditto is	—	—	27	12
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 132 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-

suring 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 274 ells long, and	opposite 200 ells wide is	9	2	2	8
	opposite 30 ditto is . . .	1	1	28	12
	opposite 1 ditto is . . .	—	—	7	22
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 316 ells long, and	opposite 200 ells wide is	10	3	35	20
	opposite 50 ditto is . . .	2	2	38	32
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

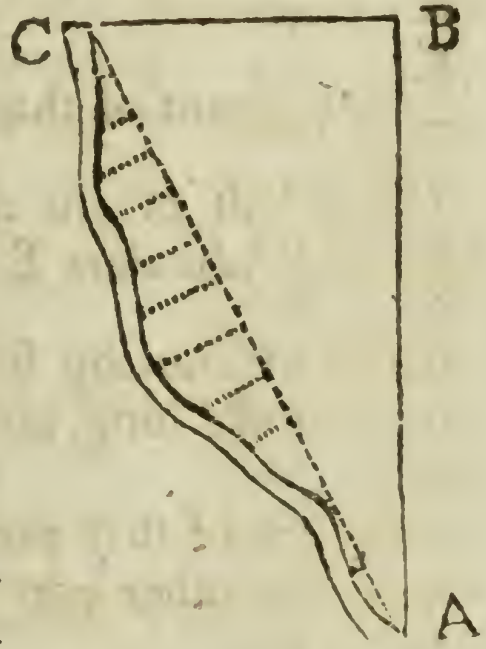
Many more examples might be given of the method for measuring and finding by the Tables the contents of a field that has more than six sides; but it is quite needless, as they are all upon the same principle. If a field has seven sides, divide it upon the spot into triangles

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 off-sets 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, $14\frac{1}{4}$—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. xii.

The contents are found out thus :

Offsets.	Ells.
1.	0
2.	12
2.	12
3.	0
3.	0
4.	20½
4.	20½
5.	36
5.	36
6.	90
6.	90
7.	102½
7.	102½
8.	90
8.	90
9.	62½
9.	62½
10.	60½
10.	60½
11.	20½
11.	20½
12.	14¼
12.	14¼
13.	0

24)1017½(42 mean.

Set down all the offsets twice except the first and last, and add them all up; then count the number you have, which is 24; you then divide the amount, which is 1017½ ells, by 24; which gives 42 for a mean width: Your length being 690 ells; which is a greater number than you have in the Tables. When that happens, you may take the half of your length, which is 345 ells; but you must double your mean width, which is 84 ells; then find the contents thus :

	A.	R.	F.	E.
Look at the top for 345 ells long, and opposite 80 ells . .	4	3	6	24
opposite 4 ditto . .	—	—	38	12
Amount of the offsets	5	—	5	—

		A.	R.	F.	E.
Then look at the top for the half of 690 ells, which is 345 ells long, and	oppos. 200 is	11	3	36	24
	oppos. 90 is	5	1	22	18
Amount of the triangle ABC		17	1	19	6
To which add the offsets as above		5	—	5	—
Total amount of the field		22	1	24	6

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. xii.

The contents are found out thus:

Offsets upon AC.	Offsets upon CB.	Offsets upon BA.
1. 0	1. . . . 0	1. . . . 0
2. . . . . 22½	2. . . . 24	2. . . . 15½
2. . . . . 22½	2. . . . 24	2. . . . 15½
3. 12	3. . . . 30½	3. . . . 28¼
3. 12	3. . . . 30½	3. . . . 28¼
4. 32	4. . . . 20	4. . . . 26
4. 32	4. . . . 20	4. . . . 26
5. 64	5. . . . 0	5. . . . 10
5. 64	8)149(18½ mean.	5. . . . 10
6. 22		6. . . . 25
6. 22		6. . . . 25
7. . . . . 23½		7. . . . 24¼
7. . . . . 23½		7. . . . 24¼
8. 0		8. . . . 0
8. 0		14)258(18½ mean.
9. 0		
16)352(22 mean.		

The line AC 342 ells, and the medium width 22 ells.

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

The line CB 278 ells long, and the mean width 18½ ells.

	A.	R.	F.	E.
Look at the top for 278 ells long, and opposite 10 ells wide is	—	1	37	8
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 18½ ells.

	A.	R.	F.	E.
Look at the top for 286 ells long, and opposite 10 ells wide is	—	1	39	16
and opposite 8 ditto is	—	1	23	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 the half of 342, which is 171, and opposite 200 ells wide is	5	3	30	—
and opposite 20 ditto is	—	2	15	—
and opposite 2 ditto is	—	—	9	18
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	—	3	22	31
Add the offsets from B to A	—	3	26	35
The total content	9	2	33	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.	$100\frac{3}{4}$
5.	$100\frac{3}{4}$
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.	$52\frac{3}{4}$
5.	$52\frac{3}{4}$
6.	0
6.	0
7.	0
12)590(49 mean.	

Line CD, 440 Ells.		Line DA, 460 Ells.	
1. offset . . .	30	1. offset	0
2.	40	2.	60
2.	40	2.	60
3.	42½	3.	62
3.	42½	3.	62
4.	0	4.	0
4.	0	4.	0
5.	15	5.	15½
5.	15	5.	15½
6.	0	6.	0
10)225(22½ mean.		10)275(27½ 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 450 ells long and	opposite 70 ells wide is .	5	1	35	—
	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 480 ells long, and	opposite 40 ells wide is .	3	1	13	12
	opposite 9 ditto is	—	3	—	—
Amount of the offsets between B and C . .		4	—	13	12

The line CD 440 ells long, and the mean of the offsets 22½ ells.

	A.	R.	F.	E.
Look at the top for 440 ells long, and opposite 20 ells wide is .	1	2	4	16
opposite 2 ditto is	—	—	24	16
The half of 440 ells is 220 for the 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 27½ ells.

	A.	R.	F.	E.
Look at the top for 460 ells long, and opposite 20 ells wide is .	1	2	15	20
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.	E.
Look into the top for 445 ells long, and opposite to 400 ells wide is . . .	30	3	24	16
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.

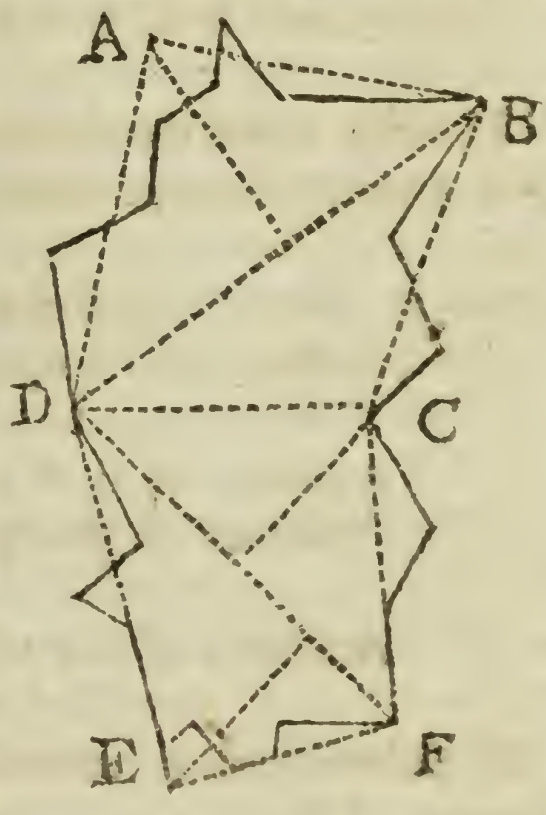
	A.	R.	F.	E.
Amount of the square ABCD	36	1	9	26
Ditto of the offsets between A and B	6	—	15	—
Ditto . . . . . B and C . . .	4	—	13	12
Ditto . . . . . C and D . . .	1	2	35	—
Ditto . . . . . D and A . . .	2	—	31	14
Total amount	50	1	24	16

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 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 250 ells long, and	opposite 400 ells wide is . .	17	1	17	28
	opposite 50 ditto is	2	—	27	8
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 290 ells long, and	opposite 400 ells wide is . .	20	—	22	8
	opposite 90 ditto is	4	2	5	—
Amount of that part of the field ABCD . .		24	2	27	8
Amount of that part of the field CDEF . .		19	2	5	—
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, 13 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 . .		3	2	27	18

Offsets on the First Line.	Offsets on the Second Line.
0. 0	0. 0
1. 12	1. 14
1. 12	1. 14
2. 4	2. 5
2. 4	2. 5
3. 0	3. 1
3. 0	3. 1
4. 7	4. 6
4. 7	4. 6
5. 12	5. 13
5. 12	5. 13
0. 0	0. 0
12)70(6 mean.	12)78(6½ mean.

Offsets on the Third Line.		Offsets on the Fourth Line.	
0.	0	0.	0
1.	10	1.	10
1.	10	1.	10
2.	5	2.	4
2.	5	2.	4
3.	0	3.	1
3.	0	3.	1
4.	5	4.	7
4.	5	4.	7
5.	12	5.	11
5.	12	5.	11
0.	0	0.	0

12)64(5½ mean, nearly. 12)66(5½ 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	—	—	23	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	23
Which deduct out of the amount of the square, and there remains for the amount of the planting	3	—	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 a 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, 3, 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 35 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 long, 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 ells long, and opposite to } 600 ells wide is . .	62	2	—	—
} 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 ells long, and opposite to } 600 ells wide is . .	60	1	26	24
} 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 37 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	12
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	28
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.

500
400

5760)200000(34 acres
17280

27200
23040

4160
4

5760)16640(2 roods
11520

5120
40

5760)204800(35 falls
17280

32000
28800

3200
36

19200
9600

5760)115200(20 ells
11520

0

Ex. II. 1940 ells long and 1620 wide.

1940
1620

38800
11640
1940

5760)3142800(545 acres
28800

26280
23040

32400
28800

3600
4

5760)14400(2 roods
11520

2880
40

5760)115200(20 falls
11520

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	32	—	—	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

Ells Wide.	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
80	—	—	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	0	6	24	1	0	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	—

From 16 to 20 Ells Long.

Ells Wide	16 Ells Long.				17 Ells Long.				18 Ells Long.				19 Ells Long.				20 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	0	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 Ells Long.				27 Ells Long.				28 Ells Long.				29 Ells Long.				30 Ells Long.			
	A.	R.	F.	E.	A.	R.	F.	F.	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	0	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	0	0	—	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	0	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	0	24	16	2	—	35	20	2	1	6	24	2	1	17	28	2	1	28	32
500	2	2	30	20	2	3	4	16	2	3	18	12	2	3	32	8	3	—	6	4
600	3	0	36	24	3	1	13	12	3	1	30	—	3	2	6	24	3	2	23	12

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.	F.
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.	F.	A.	R.	F.	E.	A.	R.	F.	F.	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	20	—	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.	E.	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	16
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

From 56 to 60 Ells Long.

Ells Wide.	56 Ells Long.				57 Ells Long.				58 Ells Long.				59 Ells Long.				60 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	—	—	5	—
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	0	—	—	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	—	13	12	7	—	30	—	7	1	6	24

Ells Wide.	71 Ells Long.				72 Ells Long.				73 Ells Long.				74 Ells Long.				75 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	6	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

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.	R.	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	28	—	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	—	—	15	6	—	—	15	12	—	—	15	18	—	—	15	24	—	—	15	30
7	—	—	17	25	—	—	18	3	—	—	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

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

Ells Wide.	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 Ells Long.				107 Ells Long.				108 Ells Long.				109 Ells Long.				110 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	13
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	0	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	38	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	—	—

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	18
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	—	38	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	23	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 Long.				149 Ells Long.				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	—

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	39	—	16	—	6	24	16	—	23	32

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 Vide.	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	1	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	19	—	10	—	19	—	26	24	19	1	3	12

Ells Wide.	186 Ells Long.				187 Ells Long.				188 Ells Long.				189 Ells Long.				190 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	1	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

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	—

Ells Wide	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

Ells Wide.	216 Ells Long.				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 Ells Long.				237 Ells Long.				238 Ells Long.				239 Ells Long.				240 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	28
600	25	—	16	24	25	—	33	12	25	1	10	—	25	1	26	24	25	2	3	12

Ells Wide.	246 Ells Long.				247 Ells Long.				248 Ells Long.				249 Ells Long.				250 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

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	—

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	38	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 Ells Long.				287 Ells Long.				288 Ells Long.				289 Ells Long.				290 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	—	—	23	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	24	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	13	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
2	—	—	17	30	—	—	17	32	—	—	17	34	—	—	18	—	—	—	18	2
3	—	—	26	27	—	—	26	30	—	—	26	33	—	—	27	—	—	—	27	3
4	—	—	35	24	—	—	35	28	—	—	35	32	—	—	36	—	—	—	36	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	20
30	1	2	27	18	1	2	28	12	1	2	29	6	1	2	30	—	1	2	30	30
40	2	—	36	24	2	—	37	28	2	—	38	32	2	1	—	—	2	1	1	4
50	2	3	5	30	2	3	7	8	2	3	8	22	2	3	10	—	2	3	11	14
60	3	1	15	—	3	1	16	24	3	1	18	12	3	1	20	—	3	1	21	24
70	3	3	24	6	3	3	26	4	3	3	28	2	3	3	30	—	3	3	31	34
80	4	1	33	12	4	1	35	20	4	1	37	28	4	2	—	—	4	2	2	8
90	5	—	2	18	5	—	5	—	5	—	7	18	5	—	10	—	5	—	12	18
100	5	2	11	24	5	2	14	16	5	2	17	8	5	2	20	—	5	2	22	28
200	11	—	23	12	11	—	28	32	11	—	34	16	11	1	—	—	11	1	5	20
300	16	2	35	—	16	3	3	12	16	3	11	24	16	3	20	—	16	3	28	12
400	22	1	6	24	22	1	17	28	22	1	28	32	22	2	—	—	22	2	11	4
500	27	3	18	12	27	3	32	8	28	—	6	4	28	—	20	—	28	—	33	32
600	33	1	30	—	33	2	6	24	33	2	23	12	33	3	—	—	33	3	16	24

Ells Wide	326 Ells Long.				327 Ells Long.				328 Ells Long.				329 Ells Long.				330 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 Ells Long.				337 Ells Long.				338 Ells Long.				339 Ells Long.				340 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	—	—	1	5	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 Ells Long.				342 Ells Long.				343 Ells Long.				344 Ells Long.				345 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	7	33
6	—	1	16	30	—	1	17	—	—	1	17	6	—	1	17	12	—	1	17	18
7	—	1	26	11	—	1	26	18	—	1	26	25	—	1	26	32	—	1	27	3
8	—	1	35	28	—	1	36	—	—	1	36	8	—	1	36	16	—	1	36	24
9	—	2	5	9	—	2	5	18	—	2	5	27	—	2	6	—	—	2	6	9
10	—	2	14	26	—	2	15	—	—	2	15	10	—	2	15	20	—	2	15	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	2	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 Ells Long.				347 Ells Long.				348 Ells Long.				349 Ells Long.				350 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 Ells Long.				357 Ells Long.				358 Ells Long.				359 Ells Long.				360 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	1	23	12	37	2	—	—

Ells Wide.	361 Ells Long.				362 Ells Long.				363 Ells Long.				364 Ells Long.				365 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 Ells Long.				367 Ells Long.				368 Ells Long.				369 Ells Long.				370 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 Ells Long.				372 Ells Long.				373 Ells Long.				374 Ells Long.				375 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	—	—	32	—	—	—	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	36	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 Ells Long.				387 Ells Long.				388 Ells Long.				389 Ells Long.				390 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	24	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 Ells Long.				397 Ells Long.				398 Ells Long.				399 Ells Long.				400 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	2	—	—	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

From 416 to 420 Ells Long.

Ells Wide.	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	36	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	21	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	—	3	—	22	—	38	12	22	1	6	24	22	1	15	—	22	1	23	12
400	29	2	1	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 Wide.	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	—	1	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	23	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	30
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	21	4
30	2	1	28	12	2	1	29	6	2	1	30	—	2	1	30	30	2	1	31	24
40	3	—	37	28	3	—	38	32	3	1	—	—	3	1	1	4	3	1	2	8
50	4	—	7	8	4	—	8	22	4	—	10	—	4	—	11	14	4	—	12	28
60	4	3	16	24	4	3	18	12	4	3	20	—	4	3	21	24	4	3	23	12
70	5	2	26	4	5	2	28	2	5	2	30	—	5	2	31	34	5	2	33	32
80	6	1	35	20	6	1	37	28	6	2	—	—	6	2	2	8	6	2	4	16
90	7	1	5	—	7	1	7	18	7	1	10	—	7	1	12	18	7	1	15	—
100	8	—	14	16	8	—	17	8	8	—	20	—	8	—	22	28	8	—	25	20
200	16	—	28	32	16	—	34	16	16	1	—	—	16	1	5	20	16	1	11	4
300	24	1	3	12	24	1	11	24	24	1	20	—	24	1	28	12	24	1	36	24
400	32	1	17	28	32	1	28	32	32	2	—	—	32	2	11	4	32	2	22	8
500	40	1	32	8	40	2	6	4	40	2	20	—	40	2	33	32	40	3	7	28
600	48	2	6	24	48	2	23	12	48	3	—	—	48	3	16	24	48	3	33	12

Ells Vide.	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 Vide.	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	8	42	—	16	4
600	50	1	16	24	50	—	33	12	50	1	10	—	50	1	26	24	50	2	3	12

Ells 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	—

Ell-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

Ells Wide.	501 Ells Long.				502 Ells Long.				503 Ells Long.				504 Ells Long.				505 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	4	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	36	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 Vide.	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	—	14	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 Ells Long.				537 Ells Long.				538 Ells Long.				539 Ells Long.				540 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 Ells Long.				547 Ells Long.				548 Ells Long.				549 Ells Long.				550 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	—

From 556 to 560 Ells Long.

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	28	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	4	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	13	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 Ells Long.				587 Ells Long.				588 Ells Long.				589 Ells Long.				590 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	4	20	1	26	24	20	1	32	8	20	1	37	28
300	30	2	3	12	30	2	11	24	30	2	20	—	30	2	28	12	30	2	36	24
400	40	2	31	4	40	3	2	8	40	3	13	12	40	3	24	16	40	3	35	20
500	50	3	18	32	50	3	32	28	51	—	6	24	51	—	20	20	51	—	34	16
600	61	—	6	24	61	—	23	12	61	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	13	21

Example, Turn 23 acres, 1 rood, 13 polls, 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 polls 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 30 yards in English measure. Carrry 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	231	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	—	—	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. Polls.	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	Polls.					18	—	—	14	11
90	71	2	14	29	39	—	—	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	13
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					

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, 6½ inches: this is the breadth for half an acre. If you want to lay off a quarter of an acre, take the ¼th of 45, which is 11 ells, 0 feet, 9½ 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:

45 ells the width of an acre
Multiply by 16 falls

270
45

Divide by the number of falls in an acre . . 160)720(4 E. F. In. 1 1½. 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(1½
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 arces and 2 roods of barley, What width must he measure to give that quantity of ground?

	E.	Ft.	In.
Look into the Table for 128, the length, and opposite to it 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
The wide required for $2\frac{1}{2}$ 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 feuer 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, $8\frac{1}{2}$ 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
20 multiply by the number of falls wanted.
——
Divide by the number of falls in an acre . . 160(5760(36 ells, the distance required behind the front for 20 falls.
480
——
)96 (
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	120	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	—	3	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	259	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	—	7

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	2	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	1	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	374	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 —	3½
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	5½
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	11½
420	13 2	2	445	12 2	9½	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	—	—½
502	11	1	4	527	10	2	10	552	10	1	3½	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	2½	579	9	2	10
505	11	1	2	530	10	2	7	555	10	1	2	580	9	2	9½
506	11	1	1	531	10	2	6	556	10	1	1	581	9	2	9
507	11	1	—½	532	10	2	5½	557	10	1	—½	582	9	2	8½
508	11	1	—	533	10	2	5	558	10	1	—	583	9	2	8
509	11	—	11½	534	10	2	4	559	10	—	11	584	9	2	7
510	11	—	11	535	10	2	3	560	10	—	10	585	9	2	6½
511	11	—	10	536	10	2	2½	561	10	—	9	586	9	2	6
512	11	—	9	537	10	2	2	562	10	—	8½	587	9	2	5
513	11	—	8	538	10	2	1	563	10	—	8	588	9	2	4½
514	11	—	7	539	10	2	—½	564	10	—	7½	589	9	2	4
515	11	—	6	540	10	2	—	565	10	—	7	590	9	2	3½
516	11	—	5	541	10	1	11½	566	10	—	6½	591	9	2	3
517	11	—	4½	542	10	1	11	567	10	—	6	592	9	2	2½
518	11	—	4	543	10	1	10	568	10	—	5	593	9	2	2
519	11	—	3	544	10	1	9½	569	10	—	4½	594	9	2	1½
520	11	—	2½	545	10	1	9	570	10	—	4	595	9	2	1
521	11	—	2	546	10	1	8	571	10	—	3	596	9	2	—½
522	11	—	1	547	10	1	7	572	10	—	2½	597	9	2	—
523	11	—	—½	548	10	1	6	573	10	—	2	598	9	1	11
524	11	—	—	549	10	1	5½	574	10	—	1½	599	9	1	10½
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 dyke 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 dyke 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 à 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

36

624
312

Divide by . . . . . 144)3744(26 square yards the answer
the lineal length of a rood 288

864

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

Height of the Wall.		Length of one Rood.			Height of the Wall.		Length of one Rood.			Height of the Wall.		Length of one Rood.			Height of the Wall.		Length of one Rood.			Height of the Wall.		Length of one Rood.		
Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.	Ft.	In.	Yd.	Ft.	In.
0	1	1296	0	0	2	1	51	2	6	4	1	26	1	4	6	1	17	2	3	8	1	13	1	1
0	2	648	0	0	2	2	49	2	6	4	2	25	2	9	6	2	17	1	6	8	2	13	0	8
0	3	432	0	0	2	3	48	0	0	4	3	25	1	3	6	3	17	0	10	8	3	13	0	3
0	4	324	0	0	2	4	46	0	10	4	4	24	2	9	6	4	17	0	2	8	4	12	2	10
0	5	259	0	7	2	5	44	2	1	4	5	24	1	5	6	5	16	2	4	8	5	12	2	6
0	6	216	0	0	2	6	43	0	7	4	6	24	0	0	6	6	16	1	10	8	6	12	2	1
0	7	185	0	5	2	7	41	2	5	4	7	23	1	8	6	7	16	1	2	8	7	12	1	9
0	8	162	0	0	2	8	40	1	6	4	8	23	0	5	6	8	16	0	7	8	8	12	1	4
0	9	144	0	0	2	9	39	0	10	4	9	22	2	2	6	9	16	0	0	8	9	12	1	0
0	10	129	1	9	2	10	38	0	4	4	10	22	1	0	6	10	15	2	5	8	10	12	0	8
0	11	117	2	5	2	11	37	0	1	4	11	21	2	10	6	11	15	1	10	8	11	12	0	4
1	0	108	0	0	3	0	36	0	0	5	0	21	1	7	7	0	15	1	3	9	0	12	0	0
1	1	99	2	9	3	1	35	0	1	5	1	21	0	9	7	1	15	0	9	9	1	11	2	8
1	2	92	2	2	3	2	34	0	4	5	2	20	2	3	7	2	15	0	2	9	2	11	2	4
1	3	86	1	2	3	3	33	0	8	5	3	20	1	9	7	3	14	2	8	9	3	11	2	0
1	4	81	0	0	3	4	32	1	1	5	4	20	0	8	7	4	14	2	2	9	4	11	1	8
1	5	76	0	8	3	5	31	1	10	5	5	19	2	8	7	5	14	1	8	9	5	11	1	4
1	6	72	0	0	3	6	30	2	8	5	6	19	1	11	7	6	14	1	2	9	6	11	1	0
1	7	68	0	8	3	7	30	0	5	5	7	19	1	0	7	7	14	0	9	9	7	11	0	9
1	8	64	2	5	3	8	29	1	4	5	8	19	0	2	7	8	14	0	3	9	8	11	0	6
1	9	61	2	2	3	9	28	2	7	5	9	18	2	3	7	9	13	2	10	9	9	11	0	2
1	10	58	2	9	3	10	28	0	6	5	10	18	1	6	7	10	13	2	4	9	10	10	2	11
1	11	56	1	0	3	11	27	1	9	5	11	18	0	9	7	11	13	1	11	9	11	10	2	8
2	0	54	0	0	4	0	27	0	0	6	0	18	0	0	8	0	13	1	6	10	0	10	2	5

TABLE *for ascertaining the Number of* CABBAGES *that will Grow upon* 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 . 243820

Look down the same column till you are opposite	2 acres, and you will find	48764
	3 roods, ...	18285
	20 falls, ...	3045
	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.

A.	R.	F.	Number of Cabbages 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	383	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	73446	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 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	338
	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 nursery men 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 . . . . . 6)347485

Gives the number in the long hundred 57914

A.	R.	F.	Number of Trees at 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.

Distances of the Heaps in Ells.	The Large Figures shew the Number of Heaps in a Cart-load.—The Figures below them shew the Number of Cart-loads for an Acre.											
	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 $22\frac{1}{2}$ 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 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
1½	1952	1280	960	768	640	549	480	428	384	360	320
2	1440	960	720	576	480	412	360	320	288	262	240
2½	1152	768	576	461	384	329	288	256	236	209	192
3	960	640	480	384	320	275	240	214	192	175	160
3½	823	545	412	329	275	235	206	183	165	150	138
4	720	480	360	288	240	206	180	160	144	131	120
4½	640	428	320	256	214	183	160	142	128	117	107
5	576	384	288	231	192	165	144	129	115	105	96
5½	524	350	275	210	175	150	131	117	105	96	88
6	480	320	240	192	160	137	120	107	96	88	80
6½	443	296	222	177	148	127	111	99	89	81	78
7	412	275	206	165	137	118	103	92	83	75	69
7½	384	256	192	154	128	111	96	86	77	70	64
8	360	240	180	144	120	103	90	80	72	66	60
8½	339	226	169	136	113	98	85	76	68	62	57
9	320	214	160	128	107	92	80	72	64	59	54
9½	304	203	152	122	102	87	76	68	61	56	51
10	288	192	144	115	96	83	72	64	58	53	48
10½	275	183	137	110	92	79	69	61	55	50	46
11	262	175	131	105	88	75	66	59	53	47	44
11½	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* SLATER'S *and* THATCHER'S WORK, *from* 1 *to* 100 *Feet Long, and from* 1 *to* 18 *Feet High Slant of the Roof.*

EXPLANATION.—Slater's and thatcher's 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, divide 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	1	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	40	—	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	3	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	$7\frac{1}{2}$
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	$0\frac{3}{4}$
The amount sought . .	L. 306	13	$2\frac{1}{4}$

Example III. A gentleman 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
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	0 $\frac{24}{160}$	0	0	0 $\frac{48}{160}$	0	0	0 $\frac{9}{160}$	0	0	0 $\frac{14}{160}$	0	0	0 $\frac{1}{4}$ $\frac{3}{160}$
—	—	2	0	0	0 $\frac{48}{160}$	0	0	0 $\frac{96}{160}$	0	0	0 $\frac{1}{4}$ $\frac{3}{160}$	0	0	0 $\frac{1}{4}$ $\frac{12}{160}$	0	0	0 $\frac{1}{2}$ $\frac{6}{160}$
—	—	3	0	0	0 $\frac{72}{160}$	0	0	0 $\frac{144}{160}$	0	0	0 $\frac{1}{4}$ $\frac{11}{160}$	0	0	0 $\frac{1}{2}$ $\frac{18}{160}$	0	0	0 $\frac{3}{4}$ $\frac{9}{160}$
—	—	4	0	0	0 $\frac{96}{160}$	0	0	0 $\frac{1}{4}$ $\frac{3}{160}$	0	0	0 $\frac{1}{2}$ $\frac{6}{160}$	0	0	0 $\frac{3}{4}$ $\frac{9}{160}$	0	0	1 $\frac{12}{160}$
—	—	5	0	0	0 $\frac{120}{160}$	0	0	0 $\frac{1}{4}$ $\frac{8}{160}$	0	0	0 $\frac{3}{4}$	0	0	1 $\frac{8}{160}$	0	0	1 $\frac{1}{2}$
—	—	6	0	0	0 $\frac{144}{160}$	0	0	0 $\frac{1}{4}$ $\frac{12}{160}$	0	0	0 $\frac{3}{4}$ $\frac{9}{160}$	0	0	1 $\frac{1}{4}$ $\frac{6}{160}$	0	0	1 $\frac{3}{4}$ $\frac{3}{160}$
—	—	7	0	0	0 $\frac{1}{4}$ $\frac{8}{160}$	0	0	0 $\frac{1}{2}$ $\frac{1}{160}$	0	0	1 $\frac{3}{160}$	0	0	1 $\frac{1}{4}$ $\frac{4}{160}$	0	0	2 $\frac{6}{160}$
—	—	8	0	0	0 $\frac{1}{4}$ $\frac{32}{160}$	0	0	0 $\frac{1}{2}$ $\frac{6}{160}$	0	0	1 $\frac{12}{160}$	0	0	1 $\frac{3}{4}$ $\frac{3}{160}$	0	0	2 $\frac{1}{4}$ $\frac{9}{160}$
—	—	9	0	0	0 $\frac{1}{4}$ $\frac{56}{160}$	0	0	0 $\frac{1}{2}$ $\frac{1}{160}$	0	0	1 $\frac{1}{4}$ $\frac{6}{160}$	0	0	2 $\frac{1}{160}$	0	0	2 $\frac{1}{2}$ $\frac{12}{160}$
—	—	10	0	0	0 $\frac{1}{2}$ $\frac{80}{160}$	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 $\frac{8}{160}$	0	0	2 $\frac{1}{4}$	0	0	4 $\frac{1}{2}$	0	0	6 $\frac{3}{4}$	0	0	9
—	1	—	0	0	1 $\frac{1}{2}$	0	0	3	0	0	6	0	0	9	0	1	0
—	2	—	0	0	3	0	0	6	0	1	0	0	1	6	0	2	0
—	3	—	0	0	4 $\frac{1}{2}$	0	0	9	0	1	6	0	2	3	0	3	0
1	—	—	0	0	6	0	1	0	0	2	0	0	3	0	0	4	0
2	—	—	0	1	0	0	2	0	0	4	0	0	6	0	0	8	0
3	—	—	0	1	6	0	3	0	0	6	0	0	9	0	0	12	0
4	—	—	0	2	0	0	4	0	0	8	0	0	12	0	0	16	0
5	—	—	0	2	6	0	5	0	0	10	0	0	15	0	1	0	0
6	—	—	0	3	0	0	6	0	0	12	0	0	18	0	1	4	0
7	—	—	0	3	6	0	7	0	0	14	0	1	1	0	1	8	0
8	—	—	0	4	0	0	8	0	0	16	0	1	4	0	1	12	0
9	—	—	0	4	6	0	9	0	0	18	0	1	7	0	1	16	0
10	—	—	0	5	0	0	10	0	1	0	0	1	10	0	2	0	0
20	—	—	0	10	0	1	0	0	2	0	0	3	0	0	4	0	0
30	—	—	0	15	0	1	10	0	3	0	0	4	10	0	6	0	0
40	—	—	1	0	0	2	0	0	4	0	0	6	0	0	8	0	0
50	—	—	1	5	0	2	10	0	5	0	0	7	10	0	10	0	0
60	—	—	1	10	0	3	0	0	6	0	0	9	0	0	12	0	0

Quantity of Land.			At 5s. per Acre.			At 6s. per Acre.			At 7s. per Acre.			At 8s. per Acre.		
A.	R.	P.	L.	s.	d.	L.	s.	d.	L.	s.	d.	L.	s.	d.
—	—	1	0	0	0 1/4 8/16	0	0	0 1/4 12/16	0	0	0 1/2 7/16	0	0	0 1/2 6/16
—	—	2	0	0	0 3/4	0	0	0 3/4 9	0	0	1 3	0	0	1 12
—	—	3	0	0	1 8	0	0	1 1/4 6	0	0	1 1/4 4	0	0	1 1/4 3
—	—	4	0	0	1 1/2	0	0	1 3/4 3	0	0	2 6	0	0	2 1/4 9
—	—	5	0	0	1 3/4 8	0	0	2 1/4	0	0	2 1/2 8	0	0	3
—	—	6	0	0	2 1/4	0	0	2 1/2 12	0	0	3 9	0	0	3 1/2 6
—	—	7	0	0	2 1/2 8	0	0	3 9	0	0	3 1/2 11	0	0	4 12
—	—	8	0	0	3	0	0	3 1/2 6	0	0	4 12	0	0	4 3/4 3
—	—	9	0	0	3 1/4 8	0	0	4 3	0	0	4 1/2 14	0	0	5 1/4 9
—	—	10	0	0	3 3/4	0	0	4 1/2	0	0	5 1/4	0	0	6
—	—	20	0	0	7 1/2	0	0	9	0	0	10 1/2	0	1	0
—	—	30	0	0	11 1/4	0	1	1 1/2	0	1	3 3/4	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 1/2 1/160	0	0	0 3/4	0	0	0 3/4 4/160	0	0	0 3/4 9/160
—	—	2	0	0	1 1/4 6	0	0	1 1/2	0	0	1 1/2 9	0	0	1 3/4 3
—	—	3	0	0	2 1/160	0	0	2 1/4	0	0	2 1/4 14	0	0	2 1/2 12
—	—	4	0	0	2 1/2 1/160	0	0	3	0	0	3 1/4 3	0	0	3 1/2 6
—	—	5	0	0	3 1/2 8	0	0	3 3/4	0	0	4 8	0	0	4 1/2
—	—	6	0	0	4 3	0	0	4 1/2	0	0	4 3/4 12	0	0	5 1/4 9
—	—	7	0	0	4 1/2 14	0	0	5 1/4	0	0	5 3/4 1	0	0	6 1/2 3
—	—	8	0	0	5 1/4 9	0	0	6	0	0	6 1/2 6	0	0	7 12
—	—	9	0	0	6 4	0	0	6 3/4	0	0	7 1/4 11	0	0	8 6
—	—	10	0	0	6 3/4	0	0	7 1/2	0	0	8 1/4	0	0	9
—	—	20	0	1	1 1/4	0	1	3	0	1	4 1/2	0	1	6
—	—	30	0	1	8	0	1	10 1/2	0	2	0 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

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	$0\frac{3}{4}$	$\frac{14}{176}$	0	0	1	$\frac{3}{176}$	0	0	1	$\frac{8}{176}$	0	0	1	$\frac{12}{176}$
—	—	2	0	0	$1\frac{1}{2}$	12	0	0	2	6	0	0	$2\frac{1}{4}$		0	0	$2\frac{1}{4}$	9
—	—	3	0	0	$2\frac{3}{4}$	11	0	0	3	9	0	0	$3\frac{1}{4}$	8	0	0	$3\frac{1}{2}$	6
—	—	4	0	0	$3\frac{3}{4}$	9	0	0	4	12	0	0	$4\frac{1}{2}$		0	0	$4\frac{3}{4}$	3
—	—	5	0	0	$4\frac{3}{4}$	8	0	0	$5\frac{1}{4}$		0	0	$5\frac{1}{2}$	8	0	0	6	
—	—	6	0	0	$5\frac{3}{4}$	6	0	0	$6\frac{1}{4}$	3	0	0	$6\frac{3}{4}$		0	0	7	12
—	—	7	0	0	7	4	0	0	$7\frac{1}{4}$	6	0	0	$7\frac{3}{4}$	8	0	0	$8\frac{1}{4}$	9
—	—	8	0	0	$7\frac{3}{4}$	3	0	0	$8\frac{1}{4}$	9	0	0	9		0	0	$9\frac{1}{2}$	6
—	—	9	0	0	$8\frac{3}{4}$	1	0	0	$9\frac{1}{4}$	12	0	0	10	8	0	0	$10\frac{3}{4}$	3
—	—	10	0	0	$9\frac{3}{4}$		0	0	$10\frac{1}{2}$		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	$9\frac{3}{4}$		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	

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.
—	—	1	0	0	1 1/4 3/10	0	0	1 1/4 6/10	0	0	1 1/4 1 1/10	0	0	1 1/2
—	—	2	0	0	2 1/2 3	0	0	2 1/2 12	0	0	2 3/4 6	0	0	3
—	—	3	0	0	3 3/4 4	0	0	4 3	0	0	4 1/4 2	0	0	4 1/2
—	—	4	0	0	5 6	0	0	5 1/4 9	0	0	5 1/2 13	0	0	6
—	—	5	0	0	6 1/4 8	0	0	6 3/4	0	0	7 8	0	0	7 1/2
—	—	6	0	0	7 1/2 9	0	0	8 6	0	0	8 1/2 3	0	0	9
—	—	7	0	0	8 3/4 11	0	0	9 1/4 12	0	0	9 3/4 14	0	0	10 1/2
—	—	8	0	0	10 12	0	0	10 3/4 3	0	0	11 1/4 9	0	1	0
—	—	9	0	0	11 1/4 14	0	1	0 9	0	1	0 3/4 4	0	1	1 1/2
—	—	10	0	1	0 3/4	0	1	1 1/2	0	1	2 1/4	0	1	3
—	—	20	0	2	1 1/2	0	2	3	0	2	4 1/2	0	2	6
—	—	30	0	3	2 1/4	0	3	4 1/2	0	3	6 3/4	0	3	9
—	1	—	0	4	3	0	4	6	0	4	9	0	5	0
—	2	—	0	8	6	0	9	0	0	9	6	0	10	0
—	3	—	0	12	9	0	13	6	0	14	3	0	15	0
1	—	—	0	17	0	0	18	0	0	19	0	1	0	0
2	—	—	1	14	0	1	16	0	1	18	0	2	0	0
3	—	—	2	11	0	2	14	0	2	17	0	3	0	0
4	—	—	3	8	0	3	12	0	3	16	0	4	0	0
5	—	—	4	5	0	4	10	0	4	15	0	5	0	0
6	—	—	5	2	0	5	8	0	5	14	0	6	0	0
7	—	—	5	19	0	6	6	0	6	13	0	7	0	0
8	—	—	6	16	0	7	4	0	7	12	0	8	0	0
9	—	—	7	13	0	8	2	0	8	11	0	9	0	0
10	—	—	8	10	0	9	0	0	9	10	0	10	0	0
20	—	—	17	0	0	18	0	0	19	0	0	20	0	0
30	—	—	25	10	0	27	0	0	28	10	0	30	0	0
40	—	—	34	0	0	36	0	0	38	0	0	40	0	0
50	—	—	42	10	0	45	0	0	47	10	0	50	0	0
60	—	—	51	0	0	54	0	0	57	0	0	60	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	4½	0	0	6	0	0	7½	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	1½	0	1	6	0	1	10½	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	10½	0	2	6	0	3	1½	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	7½	0	3	6	0	4	4½	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	4½	0	4	6	0	5	7½	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

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	10½	0	1	0	0	1	1½	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	7½	0	3	0	0	3	4½	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	4½	0	5	0	0	5	7½	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	1½	0	7	0	0	7	10½	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	10½	0	9	0	0	10	1½	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

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.	F.	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	0
—	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

Quantity of Land.			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	6	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	20 00	0	0
30	—	—	2400	0	0	2700	0	0	3000	0	0	30 00	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	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	181	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 3d 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 3d of August to the 20th of March, you must add to 212 17 days, 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 L.546 for 100 days at 4 *per cent.*?

546 the principal
Multiply by 100 the number of days

54600
4 the rate of interest

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

L. 2000 gives	L. 5	9	7	27
100 gives	0	5	5¾	01
80 gives	0	4	4⅕	41
4 gives	0	0	2½	52
The interest sought	L. 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

760|00 cut off two figures, and collect the left hand figures out of the Table.

L. 700 gives	L. 1	18	4½	09
60 gives	0	3	3½	80
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.	L.	s.	d	*	L.	L.	s.	d	*	L.	L.	s.	d.	*
	0	0	0½	63	100	0	5	5¾	01	10,000	27	7	11¼	36
2	0	0	1¼	26	200	0	10	11½	02	20,000	54	15	10½	73
3	0	0	1¾	89	300	0	16	5¼	04	30,000	82	3	10	10
4	0	0	2½	52	400	1	1	11	05	40,000	109	11	9¼	47
5	0	0	3¼	15	500	1	7	4¾	06	50,000	136	19	8½	84
6	0	0	3¾	78	600	1	12	10½	08	60,000	164	7	8	21
7	0	0	4¼	41	700	1	18	4¼	09	70,000	191	5	7¼	58
8	0	0	5¼	04	800	2	3	10¾	10	80,000	219	3	6½	95
9	0	0	5¾	67	900	2	9	3¾	02	90,000	246	11	6	32
10	0	0	6½	30	1000	2	14	9½	13	100,000	273	19	5¼	69
20	0	1	1	60	2000	5	9	7	27	200,000	547	18	10¾	39
30	0	1	7½	90	3000	8	4	4½	41	300,000	821	18	4¼	09
40	0	2	2¼	20	4000	10	19	2	54	400,000	1095	17	9½	79
50	0	2	8¾	50	5000	13	13	11½	68	500,000	1369	17	3	49
60	0	3	3½	80	6000	16	8	9	82	600,000	1643	16	8½	19
70	0	3	10	10	7000	19	3	6½	95	700,000	1917	16	1¾	89
80	0	4	4½	41	8000	21	18	4½	09	800,000	2191	15	7¼	48
90	0	4	11	71	9000	24	3	1¾	23	900,200	2465	15	0¾	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. 1 0	Deep Ft. In. 1 6	Deep Ft. In. 2 0	Deep Ft. In. 2 6	Deep Ft. In. 3 0	Deep Ft. In. 3 6	Deep Ft. In. 4 0	Deep Ft. In. 4 6	Deep Ft. In. 5 0	Deep Ft. In. 5 6	Deep Ft. In. 6 0
1 0	3 0	4 6	6 0	7 6	9 0	10 6	12 0	13 6	15 0	16 6	18 0
1 6	4 6	6 9	9 0	11 3	13 6	15 9	18 0	20 3	22 6	24 9	27 0
2 0	6 0	9 0	12 0	15 0	18 0	21 0	24 0	27 0	30 0	33 0	36 0
2 6	7 6	11 3	15 0	18 9	22 6	26 3	30 0	33 9	37 6	41 3	45 0
3 0	9 0	13 6	18 0	22 6	27 0	31 6	36 0	40 6	45 0	49 6	54 0
3 6	10 6	15 9	21 0	26 3	31 6	36 9	42 0	47 3	52 6	57 9	63 0
4 0	12 0	18 0	24 0	30 0	36 0	42 0	48 0	54 0	60 0	66 0	72 0
4 6	13 6	20 3	27 0	33 9	40 6	47 3	54 0	60 9	67 9	74 3	81 0
5 0	15 0	22 6	30 0	37 6	45 0	52 6	60 0	67 6	75 0	82 6	90 0
5 6	16 6	24 9	33 0	41 3	49 6	57 9	66 0	74 3	82 6	90 9	99 0
6 0	18 0	27 0	36 0	45 0	54 0	63 0	72 0	81 0	90 0	99 0	108 0

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

54
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 to L. 30 : 11 : 1.
27

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	19	11	10	8	8
3	111	56	37	28	22	13	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	33
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	1224	1057	923	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	0000	4163	3700	3330
1000	37000	18500	12334	9250	7400	6167	5286	4625	4111	3700
2000	74000	37000	23667	18500	14800	12234	10567	9223	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	41625	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 Measure.*

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.

Scotch Measure.		Scotch Ells.			Scotch Measure.		Scotch Ells.		
ch.	links.	E.	Ft.	In.	ch.	links.	E.	Ft.	In.
—	1	—	—	9	1	—	24	—	—
—	2	—	1	5	2	—	48	—	—
—	3	—	2	2	3	—	72	—	—
—	4	—	2	10	4	—	96	—	—
—	5	1	—	7	5	—	120	—	—
—	6	1	1	4	6	—	144	—	—
—	7	1	2	1	7	—	168	—	—
—	8	1	2	9	8	—	192	—	—
—	9	2	—	5	9	—	216	—	—
—	10	2	1	2	10	—	240	—	—
—	20	4	2	5	20	—	480	—	—
—	30	7	—	7	30	—	720	—	—
—	40	9	1	10	40	—	960	—	—
—	50	12	—	—	50	—	1200	—	—
—	60	14	1	2	60	—	1440	—	—
—	70	16	2	5	70	—	1680	—	—
—	80	19	—	7	80	—	1920	—	—
—	90	21	1	10	90	—	2160	—	—

TABLE *for knowing how many* ELL *are in* ENGLISH CHAINS.

English Measure.		Scotch Ells.			English Measure.		Scotch Ells.		
ch.	links.	E.	F.	In.	ch.	links.	E.	Ft.	I
—	1	—	—	8	1	—	21	1	
—	2	—	1	3	2	—	42	2	
—	3	—	1	11	3	—	64	—	
—	4	—	2	7	4	—	85	1	1
—	5	1	—	3	5	—	107	—	
—	6	1	—	10	6	—	128	1	
—	7	1	1	6	7	—	149	2	
—	8	1	2	—	8	—	171	—	
—	9	1	2	6	9	—	192	2	—
—	10	2	—	5	10	—	214	—	
—	20	4	—	10	20	—	428	—	
—	30	6	1	3	30	—	642	1	
—	40	8	1	8	40	—	856	—	
—	50	10	2	1	50	—	1070	—	1
—	60	12	2	7	60	—	1284	—	1
—	70	15	—	6	70	—	1498	1	
—	80	17	—	5	80	—	1712	1	
—	90	19	—	10	90	—	1926	1	

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 54 inches—How many solid feet?

54 } the side multiplied by itself
54 }

216
270

2916
648 the inches in 54 feet

23328
11664
17496

Ft. In.
1728)1889568(1093 5¼ 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?

14 thick
18 broad

112
14

252
240 the inches in 20 feet

10080
504

Cubic inches in a foot 1728)60480(35 cubic or solid feet the answer.
5184

8640
8640

¼ of the girth.	1 Foot Long.		2 Feet Long.		3 Feet Long.		4 Feet Long.		5 Feet Long.		6 Feet Long.	
In.	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
6½	0	3½	0	7	0	10½	1	2	1	5½	1	9¼
7	0	4	0	8¼	1	0¼	1	4¼	1	8½	2	0½
7½	0	4½	0	9¼	1	2	1	6¾	1	11½	2	4
8	0	5¼	0	10¾	1	4	1	9¼	2	2¾	2	8
8½	0	6	1	0	1	6	2	0	2	6	3	0
9	0	6¾	1	1½	1	8¼	2	3	2	9¾	3	4½
9½	0	7½	1	3	1	10½	2	6	3	1½	3	9
10	0	8¼	1	4½	2	1	2	9¼	3	5¾	4	2
10½	0	9¼	1	6¼	2	3½	3	0¾	3	9¾	4	7
11	0	10	1	8¼	2	6¼	3	4¼	4	2½	5	0½
11½	0	11	1	10	2	9	3	8	4	7	5	6¼
12	1	0	2	0	3	0	4	0	5	0	6	0
12½	1	1	2	2	3	3	4	4	5	5	6	6¼
13	1	2	2	4¼	3	6¼	4	8¼	5	10¼	7	0¼
13½	1	3¼	2	6¼	3	9½	5	0¾	6	3¾	7	7
14	1	4¼	2	8½	4	1	5	5¼	6	9½	8	2
14½	1	5½	2	11	4	4½	5	10	7	3½	8	9
15	1	6¾	3	1½	4	8¼	6	3	7	9¾	9	4½
15½	1	8	3	4	5	0	6	8	8	4	10	0
16	1	9¼	3	6¾	5	4	7	1¼	8	10½	10	8
16½	1	10¾	3	9¼	5	8	7	6¾	9	5½	11	4
17	2	0	4	0	6	0¼	8	0¼	10	0½	12	0½
17½	2	1½	4	3	6	4½	8	6	10	7½	12	9
18	2	3	4	6	6	9	9	0	11	3	13	6
18½	2	4½	4	9	7	1½	9	6	11	10½	14	3
19	2	6	5	0	7	6¼	10	0¼	12	6½	15	0½
19½	2	7¾	5	3¼	7	11	10	6¾	13	2½	15	10
20		9¼	5	6½	8	4	11	1¼	13	10½	16	8

¾ of the girth.	7 Feet Long.		8 Feet Long.		9 Feet Long.		10 Feet Long.		11 Feet Long.		12 Feet 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
6½	2	0½	2	4	2	7½	2	11¼	3	2¾	3	6¼
7	2	4½	2	8¾	3	0¾	3	4¾	3	9	4	1
7½	2	8¾	3	1½	3	6¼	3	10¾	4	3½	4	8¼
8	3	1¼	3	6½	4	0	4	5¼	4	10½	5	4
8½	3	6	4	0	4	6¼	5	0	5	6¼	6	0¼
9	3	11¼	4	6	5	0¾	5	7½	6	2¼	6	9
9½	4	4½	5	0	5	7½	6	3	6	10¾	7	6¼
10	4	10¼	5	6½	6	3	6	11¼	7	7½	8	4
10½	5	4¾	6	1½	6	10¾	7	7¾	8	5	9	2¼
11	5	10½	6	8¾	7	6¾	8	4¾	9	3	10	1
11½	6	5	7	4	8	3¼	9	2¾	10	1¼	11	0¼
12	7	0	8	0	9	0	10	0	11	0	12	0
12½	7	7	8	8¼	9	9	10	10¼	11	11¼	13	0¼
13	8	2½	9	4¾	10	6¾	11	8¾	12	10¾	14	1
13½	8	10¼	10	1½	11	4¾	12	7¾	13	11	15	2¼
14	9	6¼	10	10½	12	3	13	7¼	14	11¾	16	4
14½	10	2½	11	8¼	13	1¾	14	7	16	0¾	17	6¼
15	10	11¼	12	6	14	0¾	15	7½	17	2¼	18	9
15½	11	8	13	4	15	0	16	8¼	18	4¼	20	0¼
16	12	5¼	14	2¾	15	11¾	17	9¼	19	6½	21	4
16½	13	2¾	15	1½	17	0	18	10¾	20	9½	22	8¼
17	14	0½	16	0¾	18	0¾	20	0¾	22	0¾	24	0¾
17½	14	10½	17	0	19	1¾	21	3	23	4¾	25	6¼
18	15	9	18	0	20	3	22	6	24	9	27	0
18½	16	7½	19	0	21	4¾	23	9	26	1¾	28	6¼
19	17	6½	20	0¾	22	6¾	25	0¾	27	6¾	30	0¾
19½	18	5¾	21	1½	23	9	26	4¾	29	0½	31	8¼
20	19	5¼	22	2¾	24	11¾	27	9¼	30	6½	33	4

¼ of the girth.	13 Feet Long.		14 Feet Long.		15 Feet Long.		16 Feet Long.		17 Feet Long.		18 Feet Long.	
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
6½	3	9¾	4	1¼	4	4¾	4	8¼	4	11¾	5	3¼
7	4	5	4	9	5	1¼	5	5¼	5	9¼	6	1½
7½	5	0¾	5	5½	5	10¼	6	3	6	7½	7	0¼
8	5	9¼	6	2¾	6	8	7	1¼	7	6¾	8	0
8½	6	6¼	7	0¼	7	6¼	8	0¼	8	6¼	9	0¼
9	7	3¾	7	10½	8	5¼	9	0	9	6¾	10	1½
9½	8	1¾	8	9¼	9	4¾	10	0¼	10	7¾	11	3¼
10	9	0¼	9	8¾	10	5	11	1¼	11	9½	12	5¾
10½	9	11¼	10	8½	11	5¾	12	3	13	0	13	9¼
11	10	11	11	9¼	12	7¼	13	5¼	14	3½	15	1½
11½	11	11¼	12	10¼	13	9¼	14	8¼	15	7¼	16	6¼
12	13	0	14	0	15	0	16	0	17	0	18	0
12½	14	1¼	15	2¼	16	3¼	17	4¼	18	5¼	19	6¼
13	15	3	16	5	17	7¼	18	9¼	19	11½	21	1½
13½	16	5¾	17	8½	18	11¾	20	3	21	6	22	9¾
14	17	8¼	19	0½	20	5	21	9¼	23	1½	24	6
14½	18	11¾	20	5¼	21	10¾	23	4¼	24	9¾	26	3¼
15	20	3¾	21	10½	23	5¼	25	0	26	6¾	28	1½
15½	21	8¼	23	4¼	25	0¼	26	8¼	28	4¼	30	0¼
16	23	1¼	24	10½	26	8	28	5¼	30	2½	32	0
16½	24	6¾	26	5½	28	4¼	30	3	32	1½	34	0¼
17	26	1	28	1	30	1¼	32	1¼	34	1¼	36	1½
17½	27	7¾	29	9¼	31	10¾	34	0¼	36	1¾	38	3¼
18	29	3	31	6	33	9	36	0	38	3	40	6
18½	30	10¾	33	3¼	35	7¾	38	0¼	40	4¾	42	9¼
19	32	7	35	1	37	7¼	40	1¼	42	7¼	45	1½
19½	34	4	36	11½	39	7¼	42	3	44	10½	47	6¼
20	36	1¼	38	10½	41	8	44	5¼	47	2½	50	0

¼ of the girth.	19 Feet Long.		20 Feet Long.		21 Feet Long.		22 Feet Long.		23 Feet Long.		24 Feet 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
6½	5	6¾	5	10½	6	1¾	6	5¼	6	8¾	7	0½
7	6	5½	6	9½	7	1¾	7	5¾	7	9¾	8	2
7½	7	5	7	9¾	8	2¼	8	7	8	11¾	9	4½
8	8	5¼	8	10½	9	4	9	9¼	10	2½	10	8
8½	9	6¼	10	0¼	10	6¼	11	0½	11	6¼	12	0½
9	10	8¼	11	3	11	9¾	12	4½	12	11¼	13	6
9½	11	10¾	12	6¼	13	1¾	13	9¼	14	4¾	15	0½
10	13	2¼	13	10½	14	7	15	3¼	15	11½	16	8
10½	14	6½	15	3¾	16	1	16	10	17	7¼	18	4½
11	15	11½	16	9½	17	7¾	18	5¾	19	4	20	2
11½	17	5¼	18	4¼	19	3¼	20	2¼	21	1¼	22	0½
12	19	0	20	0	21	0	22	0	23	0	24	0
12½	20	7¼	21	8¼	22	9¼	23	10¼	24	11¼	26	0½
13	22	3½	23	5½	24	7¾	25	9¾	27	0	28	2
13½	24	0½	25	3¾	26	7	27	10	29	1¼	30	4½
14	25	10¼	27	2½	28	7	29	11¼	31	3½	32	8
14½	27	8¾	29	2¼	30	8	32	1¼	33	7	35	0½
15	29	8¼	31	3	32	9¾	34	4½	35	11¼	37	6
15½	31	8¼	33	4¼	35	0½	36	8½	38	4½	40	0½
16	33	9¼	35	6¾	37	4	39	1¼	40	10¾	42	8
16½	35	11	37	9¾	39	8¼	41	7	43	5¾	45	4½
17	38	1½	40	1¾	42	1¾	44	1¾	46	2	48	2
17½	40	4¾	42	6¼	44	8	46	9¼	48	11	51	0½
18	42	9	45	0	47	3	49	6	51	9	54	0
18½	45	1¾	47	6¼	49	11	52	3¼	54	8	57	0½
19	47	7½	50	1¾	52	7¾	55	1¾	57	8	60	2
19½	50	2	52	9¾	55	5¼	58	1	60	8¾	63	4½
20	52	9¼	55	6¾	58	4	61	1¼	63	10¾	66	8

¼ of the girth.	25 Feet Long.		26 Feet Long.		27 Feet Long.		28 Feet Long.		29 Feet Long		30 Feet Long.	
In.	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
6½	7	4	7	7½	7	11	8	2½	8	6	8	9½
7	8	6	8	10¼	9	2¼	9	6¼	9	10½	10	2½
7½	9	9¼	10	1¾	10	6½	10	11¼	11	4	11	8½
8	11	1¼	11	6¾	12	0	12	5¼	12	10¾	13	4
8½	12	6½	13	0½	13	6½	14	0½	14	6½	15	0½
9	14	0¾	14	7½	15	2¼	15	9	16	3¾	16	10½
9½	15	8	16	3½	16	11	17	6½	18	2	18	9½
10	17	4¼	18	0¾	18	9	19	5¼	20	1¾	20	10
10½	19	1¼	19	10¾	20	8	21	5¼	22	2½	22	11½
11	21	0	21	10	22	8¼	23	6¼	24	4¼	25	2½
11½	22	11½	23	10½	24	9½	25	8½	26	7½	27	6½
12	25	0	26	0	27	0	28	0	29	0	30	0
12½	27	1½	28	2½	29	3½	30	4½	31	5½	32	6½
13	29	4	30	6¼	31	8¼	32	10¼	34	0½	35	2½
13½	31	7¾	32	10¾	34	2	35	5¼	36	8½	37	11½
14	34	0¼	35	4¾	36	9	38	1¼	39	5¾	40	10
14½	36	6	37	11½	39	5	40	10½	42	4	43	9½
15	39	0¾	40	7½	42	2¼	43	9	45	3¾	46	10½
15½	41	8½	43	4½	45	0½	46	8½	48	4½	50	0½
16	44	5¼	46	2¾	48	0	49	3¼	51	6¾	53	4
16½	47	3¼	49	1¾	51	0½	52	11¼	54	10	56	8½
17	50	2	52	2¼	54	2¼	56	2¼	58	2½	60	2½
17½	53	2	55	3½	57	5	59	6½	61	8	63	9½
18	56	3	58	6	60	9	63	0	65	3	67	6
18½	59	5	61	9½	64	2	66	6½	68	11	71	3½
19	62	8	65	2¼	67	8¼	70	2¼	72	8½	75	2½
19½	66	0¼	68	7¾	71	3½	73	11¼	76	7	79	2½
20	69	5¼	72	2¾	75	0	77	9¼	80	6¾	83	4

¼ of the girth.	31 Feet Long		32 Feet Long.		33 Feet Long.		34 Feet Long.		35 Feet Long.		36 Feet Long.	
In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	7	9	8	0	8	3	8	6	8	9	9	0
6½	9	1	9	4¾	9	8¼	9	11¾	10	3¼	10	6¾
7	10	6½	10	10¾	11	2¾	11	6¾	11	11	12	3
7½	12	1¼	12	6	12	10¾	13	3¼	13	8	14	0¾
8	13	9¼	14	2¾	14	8	15	1¼	15	6¾	16	0
8½	15	6½	16	0¾	16	6¾	17	0¾	17	6¾	18	0¾
9	17	5¼	18	0	18	6¾	19	1½	19	8¼	20	3
9½	19	5	20	0¾	20	8¼	21	3¾	21	11¼	22	6¼
10	21	6¼	22	2¾	22	11	23	7¼	24	3¾	25	0
10½	23	8¾	24	6	25	3¼	26	0¼	26	9½	27	6¾
11	26	0½	26	10¾	27	8¾	28	6¾	29	5	30	3
11½	28	5½	29	4¾	30	3¾	31	2¾	32	1¾	33	0¾
12	31	0	32	0	33	0	34	0	35	0	36	0
12½	33	7½	34	8¾	35	9¾	36	10¾	37	11¾	39	0¾
13	36	4½	37	6¾	38	8¾	39	10¾	41	1	42	3
13½	39	2¾	40	6	41	9¼	43	0¼	44	3½	45	6¾
14	42	2¼	43	6¾	44	11	46	3¼	47	7¾	49	0
14½	45	3	46	8¾	48	2¼	49	7¾	51	1¼	52	6¾
15	48	5¼	50	0	51	6¾	53	1½	54	8¼	56	3
15½	51	8½	53	4¾	55	0¾	56	8¾	58	4¾	60	0¾
16	55	1¼	56	10¾	58	8	60	5¼	62	2¾	64	0
16½	58	7¼	60	6	62	4¾	64	3¼	66	2	68	0¾
17	62	2½	64	2¾	66	2¾	68	2¾	70	3	72	3
17½	65	11	68	0¾	70	2¼	72	3¾	74	5¼	76	6¾
18	69	9	72	0	74	3	76	6	78	9	81	0
18½	73	8	76	0¾	78	5¼	80	9¾	83	2¼	85	6¾
19	77	8½	80	2¾	82	8¾	85	2¾	87	9	90	3
19½	81	10¼	84	6	87	1¾	89	9¼	92	5	95	0¾
20	86	1¼	88	10¾	91	8	94	5¼	97	2¾	100	0

¼ girth.	37 Feet Long.		38 Feet Long.		39 Feet Long.		40 Feet Long.		41 Feet Long.		42 Feet 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
6½	10	10¼	11	1¾	11	5¼	11	8¾	12	0¼	12	3¾
7	12	7	12	11¼	13	3¼	13	7¼	13	11½	14	3½
7½	14	5½	14	10	15	2¾	15	7½	16	0¼	16	4¾
8	16	5¼	16	10¾	17	4	17	9¼	18	2¾	18	8
8½	18	6¾	19	0¾	19	6¾	20	0¾	20	6¾	21	0¾
9	20	9¾	21	4½	21	11¼	22	6	23	0¾	23	7¼
9½	23	2¼	23	9¾	24	5¼	25	0¾	25	8¼	26	3¾
10	25	8¼	26	4¾	27	1	27	9¼	28	5¾	29	2
10½	28	4	29	1	29	10¼	30	7½	31	4¾	32	1¾
11	31	1	31	11¼	32	9¼	33	7¼	34	5½	35	3½
11½	33	11¾	34	10¾	35	9¾	36	8¾	37	7¾	38	6¾
12	37	0	38	0	39	0	40	0	41	0	42	0
12½	40	1¾	41	2¾	42	3¾	43	4¾	44	5¾	45	6¾
13	43	5	44	7¼	45	9¼	46	11¼	48	1½	49	3½
13½	46	10	48	1	49	4¼	50	7½	51	10¾	53	1¾
14	50	4¼	51	8¾	53	1	54	5¼	55	0¾	57	2
14½	54	0¼	55	5¾	56	11¼	58	4¾	59	10¼	61	3¾
15	57	9¾	59	4½	60	11¼	62	6	64	0¾	65	7½
15½	61	8¾	63	4¾	65	0¾	66	8¾	64	4¾	70	0¾
16	65	9¼	67	6¾	69	4	71	1¼	72	10¾	74	8
16½	69	11½	71	10	73	8¾	75	7½	77	6¼	79	4¾
17	74	3	70	3	78	3¼	80	3¼	82	3½	84	3½
17½	78	8¼	80	9¾	82	11¼	85	0¾	87	2¼	89	3¾
18	83	3	85	6	87	9	90	0	92	3	94	6
18½	87	11¼	90	3¾	92	8¼	95	0¾	97	5¼	99	9¾
19	92	9	95	3¼	97	9¼	100	3¼	102	9½	105	3½
19½	97	8½	100	4	102	11¾	105	7½	108	3¼	110	10¾
20	102	9¼	105	6¾	108	4	111	1¼	113	10¾	116	8

FINIS.

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