CHAPTER XIX

QUANTITIES OF FERTILISER AND OTHER MATERIALS REQUIRED FOR THE PROPER UP-KEEP OF SPORTS GROUNDS

Regulation Measurements of Sports Grounds, List of—Calculation Tables A, B and C—Table "A" to Calculate the Quantity of Grass Seeds, Fertilisers, Wormkiller, Carterite, Lime, Charcoal, Sand, Compost, Breeze, Stable Manure, etc., required to Dress Areas varying from 400 square yards to 1 acre—Table "B," Quantities to Use per square yard and per acre—Table "C," the Approximate Quantity of Fertilisers to Use on Various Sports Grounds at the Rates of $\frac{1}{2}$, 1, and 2 oz. per square yard—Miscellaneous Information.

Regulation Measurements of Sports Grounds

It is difficult to give the exact areas of Courts, Pitches, etc., as in many cases not only is there a choice between maximum and minimum measurements, but no regulations are laid down in regard to the actual areas required for the games to be played in comfort. Consequently it is only possible to give the regulation measurements, and where they exist the recognised outside measurements.

	Yds.		Sq. yds.
Lawn Tennis, regulation	26× 12	=	312
Lawn Tennis, full size	40× 20	=	800
Croquet Lawn, regulation	35× 28	=	980
Croquet Lawn, full size	40× 30	=	1,200
Bowling Green	42× 42	=	1,764
Cricket Pitch, minimum	25× 25	=	625
Cricket Pitch, maximum	50× 50	=	2,500
*Rugby Football	110× 75	=	8,250
*Association Football, maximum	130×100	=	13,000
*Association Football, minimum	100× 50	=	5,000
*Hockey, maximum	100× 60	=	6,000
*Hockey, minimum	100× 55	=	5,500
*Polo, if boarded	300×200	=	60,000
*Polo, if unboarded	300×160	=	48,000

^{*} No allowance has been made for side or back run.

Calculation Tables

In order to keep Sports Grounds in first-class condition it is necessary to be in a position to carry out any treatment

promptly and without loss of time.

This means that all preparations should be made in advance, and all necessary materials stored and ready for immediate use. If a careful record is kept of the size of all Greens, Courts, Pitches, Fields, etc., it is then quite easy to ascertain from the following tables the approximate quantity of any material required. The British system of weights and measures does not allow exact calculations without the use of decimals, so in all cases I have worked to even or convenient figures.

TABLE "A."

For calculating the quantity of sand, fertiliser, wormkiller, lime, charcoal, etc., required for various areas at rates from \(\frac{1}{4} \) oz. to 2 lb. per square yard.

Area in								
sq. yds.	₹ oz.	1 oz.	I OZ.	2 OZ.	4 oz.	8 oz.	ı lb.	2 lb.
	61 lb.	12½ lb.		50 lb.	100 lb.	200 lb.	400 lb.	800 lb.
400 500	8	16	32	64	125	250	500	1,000
600	91	19	38	75	150	300	600	1,200
700	11	22	44	84	175	350	700	1,400
800	121	25	50	100	200	400	800	1,600
900	14	28	56	II2	224	450	900	1,800
1,000	151	31	62	125	250	500	1,000	2,000
1,100	17	34	68	136	275	550	1,100	2,200
1,200	19	38	76	150	300	600	1,200	2,400
1,300	20	40	80	160	325	650	1,300	2,600
1,400	22	44	88	175	350	700	1,400	2,800
1,500	23	46	92	184	375	750	1,500	3,000
1,600	25	50	100	200	400	800	1,600	3,200
1 Acre	19	38	75	150	300	600	1,210	2,420
Acre	38	75	150	300	600	1,210	2,420	4,840
i Acre	75	150	300	600	1,210	2,420	4,840	9,680
ı cwt.	=		112 1	b.	II cwt.	=	1,23	32 lb.
2 cwt.	=		224		12	=	1,34	
	_		336		13	-	1,4	56
3	=		448		14	=	1,50	58
4	=		560		15	_	1,68	80
5	=		672		16	_	1,79	
7	_		784	504	17	=	1,90	
8	=		896		18	-	2,0	
9	=		1,008		19	=	2,1	
10	=		1,120		20	=	2,2	
1 Acre			1,210 S	q. yds.	¾ Acre		3,6	30 sq. yds.
Acre			2,420 ,	, ,,	I Acre	= \	4,8.	40 ,, ,,
g Horo				DADIE ((D)			

TABLE "B."

Quantities to use of various materials required for the proper upkeep of Sports

Grounds.	Quantity to use per square yard.	Quantity to use per acre.	
Grass seeds for renovating	½ oz.	150 lb. or 6 bushels 75 lb. or 3 ,,	
Grass seeds for sowing new ground standard rate	at I	300 lb. or 12 ,,	
Grass seeds for sowing new ground		600 lb. or 24 ,,	

Name.	Quantity to use per square yard. Full			Quantity to use per acre.		
COMPLETE FERTILISERS—	} rate.	1 rate.		1 rate.	½ rate.	rate.
Carters Complete Grass Fertiliser No. 1 Carters Anticlover Fertiliser	$\frac{1}{2}$ oz.	I OZ.	2 OZ.		2½ cwt.	5 cwt.
No. 2	1/2	I	2	11	21/2	5
Grass Fertiliser No. 3 Phosphatic Fertilisers—	1/2	I	2	14	21/2	5
Basic Slag Superphosphate	1/2 1/4	I 1 2	2 I	11/4	$\begin{array}{c} 2\frac{1}{2} \\ 1\frac{1}{2} \end{array}$	5 3
NITROGENOUS FERTILISERS— Dried Blood Nitrate of Soda Sulphate of Ammonia	141814	121412	I 1 2	34 12 34	$1\frac{1}{2}$ 1 $1\frac{1}{2}$	3 2 3
PHOSPHATIC AND NITROGENOU FERTILISERS—						
Bone Meal Bones Dissolved Guano Dissolved Guano Fish	141414	I 12112112110	2 I I I	14 34 34 34 34 34 34	$2\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	5 3 3 3
Guano Peruvian	1	1/2	I	1	11/2	3
Potash Fertilisers— Potash, Muriate of Potash, Sulphate of Kainit, Nitrate of	18018018	1 1	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I 2 ¹ / ₂	2 2 5
FERTILISERS FOR YOUNG GRASS- Carters Compound Mulch	_ ı	bushel 1		100	or 1 5-bus	
Malt or Kiln Dust Malt Culms Rape Dust				d., or 5 to	10 cwt. pe	er acre.
OTHER MATERIALS—				5-28-28		
Wormkiller, Carters "Carterite" (Lawn Sand)				or I ton pe		
Charcoal	·· ‡	-1/2 ,,	"	½-I ,,	"	
Nottingham Marl Lime, Carbonate of, or Pulver	5	"	"	10 ,,	"	
Chalk Carters Shell Compost (75	I	. "	"	2 ,,	,,	
cent: Carbonate of Lime)		-I "	,,	1-2 ,,	.,	
	TAB	LE "C.	,,			

TABLE "C."

THE APPROXIMATE QUANTITY OF FERTILISER required, calculated to the nearest hundredweight or multiple thereof.

For a	Measuring	At $\frac{1}{2}$ oz. per sq. yd.	At r oz. per sq. yd.	At 2 oz. per sq. yd.
Regulation Tennis Court	26×12 yds.	t cwt.	1 cwt.	d cwt.
Full-size do.	40×20	1	1/2	Ī
Regulation Croquet Lawn	35×28	1	$\frac{1}{2}$	I
Bowling Green	42×42	1/2	I	2
Cricket Square or Table	25×25	3 16	3 8	3
	30×30	1	1/2	I
	40×40	1/2	I	2
	50×50	4	11/2	3
For 18 Putting Greens	20×20	2	4	8
	25×25	31	61	121
	30×30	4½ 6¼	9	18
	35×35	61	121	25
	40×40	8	16	32

		At 1 oz.	At I oz.	At 2 oz.
For a	Measuring	per sq. yd.	per sq. yd.	per sq. yd.
Football Field, Rugby .	. 110× 75 yd	s. 2½ cwt.	4½ cwt.	9 cwt.
Assn. Maximum	. 130×100	31/2	74	142
Minimum	. 100 × 50	$I\frac{1}{2}$	23	52
Hockey Field Maximum	. 100 × 60	134	31/2	$6\frac{3}{4}$
Minimum .	. 100 × 55	$I^{\frac{1}{2}}$	3_	6
Quarter-acre		38	8	I I
Half-acre		58	11	21/2
One acre		114	21/2	5

Miscellaneous Information

One cube yard of Sand, Sifted Compost, Soil or Breeze or other similar material will cover an area of approximately 150 super yards to a depth of about a quarter of an inch.

Rotted Dung and Peat Moss Manures for digging in new lawns, courts, etc., one to two loads per 100 super yards, or for ploughing in new cricket, football, polo fields, etc., 20 to 40 loads per acre.

A bushel of Grass Seeds weighs 25 lb. I cwt.=4½ bushels. Approximate quantity of Cinders, Soil, etc., required to cover an area of 800 square yards to a depth of from I to 6 inches.

I in. over an area of 800 sq. yds. = 25 cube yds.

2	,,	,,	800	,,	= 50	"
3	,,	,,	800	,,	= 75	,,,
4	,,	,,	800	,,	=100	,,
5			800	,,	=125	,,
6					=150	,,
5	"	"	800	"	=125 =150	

A cube yard of dry cinders weighs about 10 cwt.

A cube yard of sand weighs about 16 cwt. A cube yard of soil weighs about 14 cwt.

A yard of "solid" soil is equal to about 1½ yards of "loose" soil.

Red Rubble for topping Hard Courts graded 1 in. to dust. 20 tons for approximately 1 in. over 800 sq. yds.