The Public Land Survey Systems of the United States

There are two separate and distinct systems of lands surveys in the United States. (1) The system of Metes and Bounds in which each parcel of land is individually described and bound, and (2) the system of rectangular surveys under which the land is divided basically into equal-sized townships, sections, and fractions therefore.

The irregular system of metes and bounds is used entirely in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, New Jersey, Maryland Delaware, Virginia, North Carolina, South Carolina, Georgia, Tennessee, Kentucky, Texas, and parts of Ohio. Each parcel of land varies in size, is described independently, and is not tied in to any system of basic lines.

The system of rectangular surveys was inaugurated in 1784 and the laws governing its establishment have, with various modifications, been applied to all of the United States with the exception of the states listed above. Under this system the lands are divided into townships six miles square, which are related to basic lines established by the federal government. The base lines running north and south are known as Principal Meridians, while the east and west lines are called simply "Base Lines." The township numbers east or west of the Principal Meridians are designated as ranges whereas the numbers north and south of the Base Line are tiers. Thus the description of a township, for example, "Township 14 North, Range 5 West" would mean that the township is situated 14 tiers north of the Base Line for the Principal Meridian and 5 ranges West of that meridian. Guide meridians, at intervals of 24 miles east and or west of the Principal Meridian are extended north and or south from the Base Line; Standard Parallels at 24 mile intervals north and or south of the Base Line, are extended east and or west from the Principal Meridian.

The township is 6 miles square. It is divided into 36 square-mile sections of 640 acres each which may be divided and subdivided as desired. The diagrams herewith show the system of numbering the sections and the usual method of subdividing them.

For Example; A piece of land is described as The NE 1/4 of The SW 1/4 of Section 10, T 4-N, R 5-E, 3rd. Prin. Mer. The translation would be "the Northeast quarter of the Southwest quarter of Section 10 in Township 4 North and Range 5 West of the 3rd. Principal Meridian." By referring to the map the approximate location of this 40 acre tract can easily be determined.

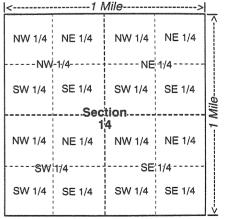
Irregular tracts of land are, of course, also described by metes and bounds within the rectangular survey system. They are, however, tied into the monuments established under the rectangular system.

For detailed information on the public land survey system in the United States see the "Manual of Instruction for the Survey of the Public Lands of the United States" issued by Bureau of Land Management of the Department of the Interior.

Township and Range Survey System

Ran	ges W	'est	Rai	nges E	ast	_
			3N			North
		Meridian	2N			sdiys
3W	2W	1W	1N 1E	2E	3E	Jown C
	B	ASE baj	LINE 1S			outh to
		Principal	2S			Townships South to Townships North
			3S			Towns

<							
6	5	4	3	2	1	^	
7	8	9	10	11	12	Wiles)-	
18	17	16	15	14	13	Township 2N (6 Miles)	
19	20	21	22	23	24	ship 2	
30	29	28	27	26	25	Towr	
31	32	33	34	35	36	\\	



Township and Range System

A Township Divided into Sections

A Section Subdivided (640 Acres)

HOW TO LOOK UP A NAME FROM THE INDEX OF OWNERS: The Index Of Owners is separated into four categories; Township(T), Range(R), Section(S) and Name. After finding the name look up the township and range number listed on the top of every map page. The map page is sectioned numerically. The name from the Index Of Owners will be inside the section number listed.

A SECTION OF LAND - 640 ACRES

Quarter Sections and Subdivisions Therefore

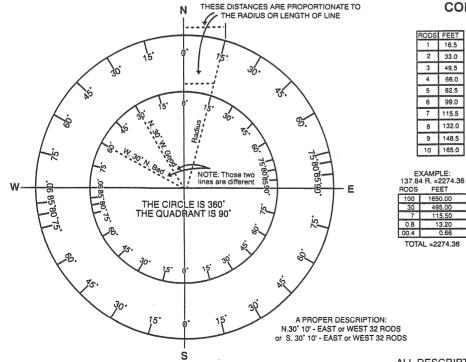
N.W. CORNER			N.1/4 C	ORNER	N.E. CORNER
		/ 1/4 ACRES		W. 1/2 NE 1/4 80 ACRES	E. 1/2 NE 1/4 80 ACRES
W. 1.4 CORNER				ER OF	E. 1/4 CORNER
NW 1/4 NW SW 1/4 SW	E 1/2 NW 1/4 SW 1/4 20 ACRES S. 1/2 NE			NW 1/4 SE 1/4 . 40 ACRES	NE 1/4 SE 1/4 40 ACRES
20 ACHES 20 AC			1/4 SW 1/4 CRES		
N 1/2 NW 1/4 SW 1/4 SW 1/4 5 ACRES SE 1/4 SW 1/4 SW 1/4 SW 1/4 SW 1/4 5 ACRES	SE 1/4 SW 1/4	NW 1/4 SE 1/4 SW 1/4 10 ACRES	NE 1/4 SE 1/4 SW 1/4 10 ACRES	SW 1/4 SE 1/4	SE 1/4 SE 1/4
2 1/2 ACRES ACRES SW SW 10 AC S.W. ©ORNER	1/4 1/4	SW 1/4 SE 1/4 SW 1/4 10 ACRES	SE 1/4 SE 1/4 SW 1/4 10 ACRES S. 1/4 C	40 ACRES ORNER	40 ACRES S.E. CORNER

RANGE E & W								
6	5	4	3	2	1	1		
7	8	9	10	11	12		TOWNSHIPS NORTH	
18	17	16	15	14	13	6 Miles-	S N(
19	20	21	22	23	24	19-	SHIR	
25	26	27	28	29	30		NO.	
31	32	33	34	35	36	V		

CONGRESSIONAL TWPS NUMBERING of SECTIONS

	320 R.						
	80 R.	80 R.		160) R.		
320 R.	160 R. 8 W. 1/2 N.W. 1/4 p. 80 AC	8 W. 1/2 N.W. 1/4 30 AC	160 R.	N.E. 1/4 E 160 AC 2		160 R.	œ
	160 R.			80 R.	80 R.	٦	320 R
	сі N. 1/2 S 80		80 R.	N.W. 1/4 S.E. 1/4 40 AC	N.E. 1/4 S.E. 1/4 40 AC	80 B	m
	ന് S. 1/2 S.W. 1/4 ജ 80 AC 160 R.			S.W. 1/4 S.E. 1/4 40 AC 80 R.	S.E. 1/4 S.E. 1/4 40 AC 80 R.	80 B.	

SUB-DIVISIONS of SECTIONS



ANGLES IN SURVEYS

CONVERSION TABLE

1 MILES = 320 RODS = 5280 FEET 1/2 MI =160 R. = 2640 FT. 1/4 MI = 80 R. =1320 FT 1 ACRE = 160 SQ. ROD =43,560 SQ. FT. LINEAR FEET X 0.0606 = LIN. RODS AREA IN SQ. FT X 0.000023 = ACRES AREA IN SQ. RDS X0.00625 = ACRES

IN OLD DESCRIPTIONS

THE CHAIN WAS 4 RODS THE LINK WAS 0.04 ROD POLE, PERCH & ROD EACH = 16.5 FT. A SECTION CONTAINS 640 ACRES A QUARTER SECTION IS 160 ACRES

ALL DESCRIPTIONS MUST GIVE DIRECTION & LENGTH OF ALL LINES - ALL ANGLES MUST BE FROM MERIDIAN-STANDARD SYMBOLS - DEGREE, 30° - MINUTES, 25' - SECONDS, 45" - IN CASE OF DOUBT, CONSULT ANY ENGINEER OR SURVEYOR.