

Distances in red denote approximate distances in miles between stars

**POPULATED PLACES**

Over 500,000  
100,000 to 500,000  
20,000 to 100,000  
5,000 to 25,000  
1,000 to 5,000  
Less than 1,000

**RAILROADS**

Standard gauge  
Narrow gauge  
BOUNDARIES  
State  
County  
River, water canal

**ROADS**

Primary, all-weather, hard surface  
Secondary, all-weather, hard surface  
Light-duty, all-weather, hard or improved surface  
Fair or dry weather, unimproved surface  
Trail  
Interchange

Route markers: Interstate, U.S., State

Mine  
Landmark: School; Church; Other  
Spot elevation in feet  
Marsh or swamp  
Intermittent or dry stream  
Power line

**LOS ANGELES**  
**OMAHA**  
**GALVESTON**  
**Durango**  
**Grand Coulee**  
**San Valley**

Scale 1:250,000

20 Statute Miles

30 Kilometers

15 Nautical Miles

CONTOUR INTERVAL 100 FEET  
WITH SUPPLEMENTARY CONTOURS AT 50 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 14

1978 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 81°4' 150 MILLS EASTERLY FOR THE CENTER OF THE WEST EDGE TO 71°4' 150 MILLS EASTERLY FOR THE CENTER OF THE EAST EDGE

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE \_\_\_\_\_  
LAND GRANT BOUNDARY \_\_\_\_\_

<p><b>GRID ZONE DESIGNATION</b>  <div style="border: 1px solid black; display: inline-block; padding: 2px 10px; font-weight: bold;">14S</div></p> <p><b>100,000 M. SQUARE</b> (EITHER) <b>10N</b></p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td style="border: 1px solid black; padding: 5px;">NR</td> <td style="border: 1px solid black; padding: 5px;">PR</td> <td style="border: 1px solid black; padding: 5px;">QR</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">NR</td> <td style="border: 1px solid black; padding: 5px;">PR</td> <td style="border: 1px solid black; padding: 5px;">QR</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">NR</td> <td style="border: 1px solid black; padding: 5px;">PR</td> <td style="border: 1px solid black; padding: 5px;">QR</td> </tr> </table> </div> <p><b>IGNORE THE SMALLER</b> figures of any grid number; these are for finding the full coordinate. Use <b>ONLY THE LARGER</b> figure of any grid number.</p> <p>example:              14S 10N → 14S 10N</p>	NR	PR	QR	NR	PR	QR	NR	PR	QR	<p><b>TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS</b></p> <p><b>SAMPLE POINT (SEE NOTE)</b></p> <ol style="list-style-type: none"> <li>1. Read letters identifying 100,000 meter square in which the point lies.</li> <li>2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure identifying one line either in the top or bottom margin, or on the line itself.</li> <li>3. Estimate fourths from grid line to point.</li> <li>4. Locate first HORIZONTAL grid line below point and read LARGE figure identifying one line either in the left or right margin, or on the line itself.</li> <li>5. Estimate tenths from grid line to point.</li> </ol> <p><b>SAMPLE REFERENCE</b>              Reporting bearing 37° in any direction, give grid zone Designation as: 14S010147</p>
NR	PR	QR								
NR	PR	QR								
NR	PR	QR								

ENID, OKLAHOMA; KANSAS  
1955