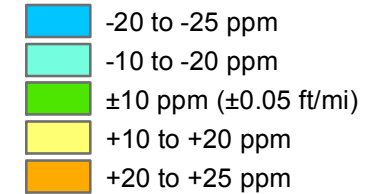


# Iowa Regional Coordinate System

All zones referenced to the North American Datum of 1983

## Linear distortion (parts per million)



## Statewide LDP statistics

Minimum: -25.2 ppm  
 Maximum: +25.7 ppm  
 Mean: -3.8 ppm  
 Std dev: ±7.5 ppm

Portion of the state that is  
 within ±10 ppm = 73.9131%  
 within ±20 ppm = 99.6313%  
 within ±25 ppm = 99.9996%  
 outside ±25 ppm = 0.0004%

Linear unit is US survey foot (sft)  
 1 sft = 1200 / 3937 meter (exact)



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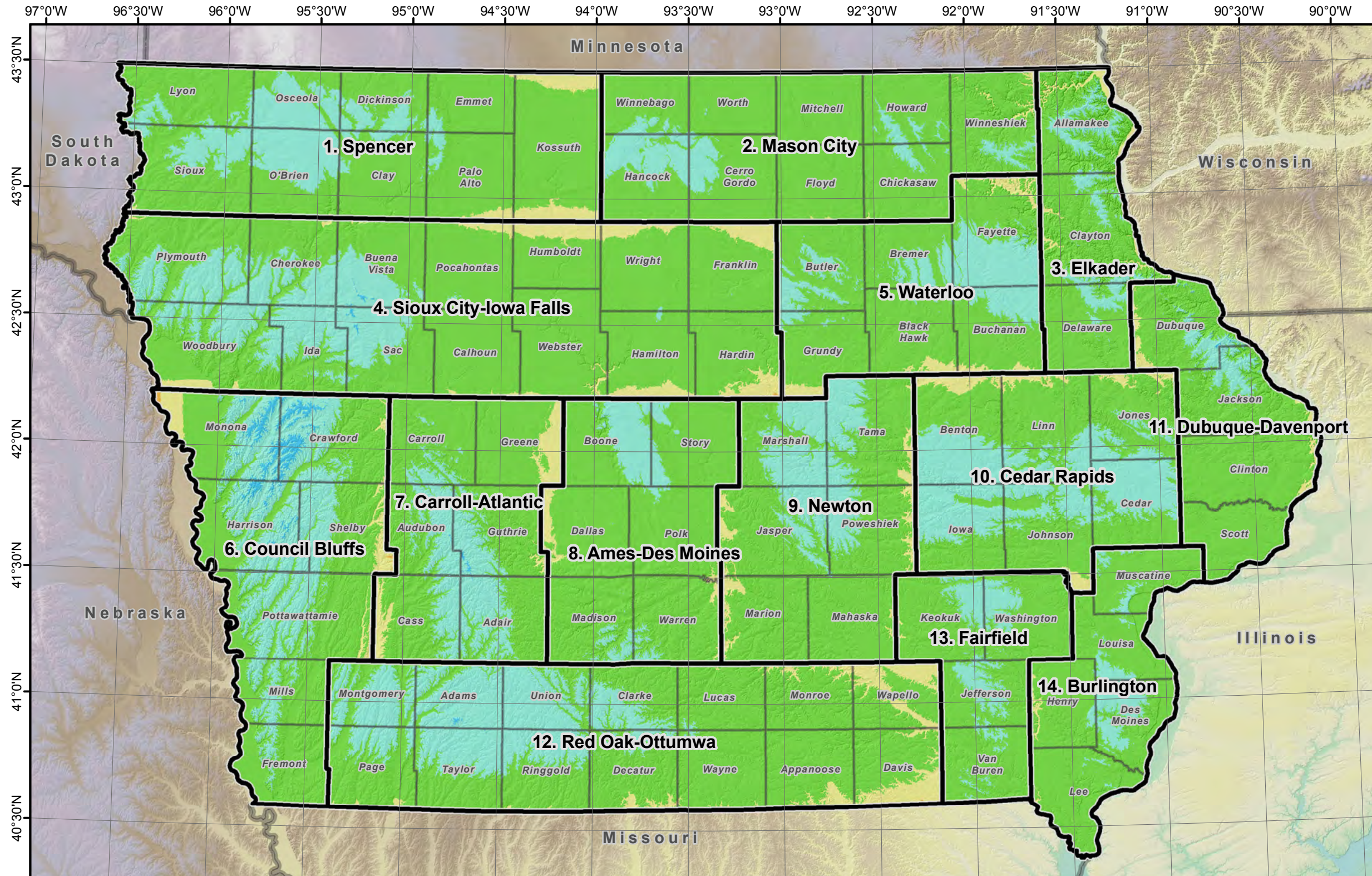
Prepared for  
 Iowa Department of  
 Transportation

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## Projection types

LCC = Lambert Conformal Conic  
 TM = Transverse Mercator



### 1. Spencer (LCC)

Std. parallel & grid origin: 43° 12' 00" N  
 Central meridian: 95° 15' 00" W  
 False northing: 9,600,000.000 sft  
 False easting: 11,500,000.000 sft  
 Standard parallel scale: 1.000 052 (exact)

### 3. Elkader (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 91° 12' 00" W  
 False northing: 8,300,000.000 sft  
 False easting: 13,500,000.000 sft  
 Central meridian scale: 1.000 035 (exact)

### 5. Waterloo (LCC)

Std. parallel & grid origin: 42° 39' 00" N  
 Central meridian: 92° 15' 00" W  
 False northing: 8,900,000.000 sft  
 False easting: 15,500,000.000 sft  
 Standard parallel scale: 1.000 032 (exact)

### 7. Carroll-Atlantic (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 94° 38' 00" W  
 False northing: 6,800,000.000 sft  
 False easting: 17,500,000.000 sft  
 Central meridian scale: 1.000 045 (exact)

### 9. Newton (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 92° 49' 00" W  
 False northing: 7,200,000.000 sft  
 False easting: 19,500,000.000 sft  
 Central meridian scale: 1.000 027 (exact)

### 11. Dubuque-Davenport (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 90° 32' 00" W  
 False northing: 7,600,000.000 sft  
 False easting: 21,500,000.000 sft  
 Central meridian scale: 1.000 027 (exact)

### 13. Fairfield (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 91° 55' 00" W  
 False northing: 6,400,000.000 sft  
 False easting: 23,500,000.000 sft  
 Central meridian scale: 1.000 020 (exact)

### 2. Mason City (LCC)

Std. parallel & grid origin: 43° 10' 00" N  
 Central meridian: 92° 45' 00" W  
 False northing: 9,800,000.000 sft  
 False easting: 12,500,000.000 sft  
 Standard parallel scale: 1.000 043 (exact)

### 4. Sioux City-Iowa Falls (LCC)

Std. parallel & grid origin: 42° 32' 00" N  
 Central meridian: 94° 50' 00" W  
 False northing: 8,600,000.000 sft  
 False easting: 14,500,000.000 sft  
 Standard parallel scale: 1.000 045 (exact)

### 6. Council Bluffs (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 95° 44' 00" W  
 False northing: 6,600,000.000 sft  
 False easting: 16,500,000.000 sft  
 Central meridian scale: 1.000 039 (exact)

### 8. Ames-Des Moines (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 93° 43' 00" W  
 False northing: 7,000,000.000 sft  
 False easting: 18,500,000.000 sft  
 Central meridian scale: 1.000 033 (exact)

### 10. Cedar Rapids (LCC)

Std. parallel & grid origin: 41° 50' 00" N  
 Central meridian: 91° 40' 00" W  
 False northing: 8,000,000.000 sft  
 False easting: 20,500,000.000 sft  
 Standard parallel scale: 1.000 020 (exact)

### 12. Red Oak-Ottumwa (LCC)

Std. parallel & grid origin: 40° 55' 00" N  
 Central meridian: 93° 45' 00" W  
 False northing: 6,200,000.000 sft  
 False easting: 22,500,000.000 sft  
 Standard parallel scale: 1.000 037 (exact)

### 14. Burlington (TM)

Latitude of grid origin: 40° 15' 00" N  
 Central meridian: 91° 15' 00" W  
 False northing: 6,200,000.000 sft  
 False easting: 24,500,000.000 sft  
 Central meridian scale: 1.000 018 (exact)