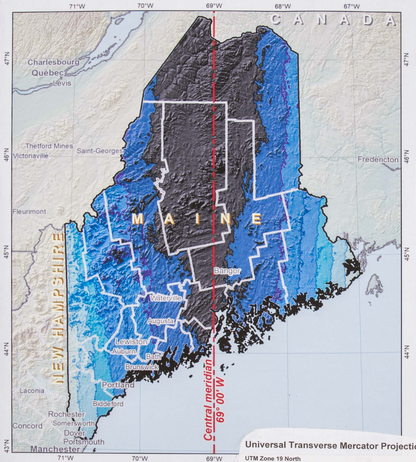
UTM Zone 19 North (IN-USE)



Existing UTM Zone 19 North used as statewide zone:

Maine

NOAA's National Geodetic Survey

Transverse Mercator projection

North American Datum of 1983

Central meridian: 69° 00' W
Cen merid scale: 0.999 6 (exact)

Areas within ±75 ppm distortion (1:13,333 = ±0.40 ft per mile):
0% of population
0% of all cities and towns
0% of entire zone area

Distortion values (ppm)

Entire zone:	*Cities and towns:*
Min = -638	Min, Max = -448, -86
Max = -75	Range = 361
Range = 563	Mean = -305
Mean = -358	(weighted by population)

Linear distortion at topographic surface (parts per million)

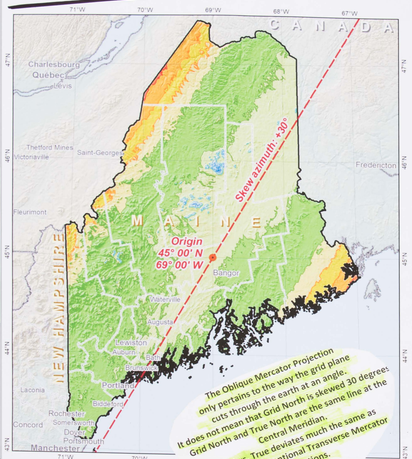
< -400	to -200	to +150
to -400	to -150	to +200
to -350	to -100	to +250
to -300	±50	to +300
to -250	to +100	> +300

0 50 100 150 200 km

Created 01/27/2019

Universal Transverse Mercator Projection

UTM Zone 19 North
Transverse Mercator Projection
Origin Latitude 00 00 00 N
Origin Longitude 69 00 00 W (Central Meridian)
False Northing 0.000m
False Easting 500000m (1,640,416.666...sFT)
Reduction in feet per thousand at Central Meridian:
Coordinate Direction is North and East
SF: 0.9996
1:2500 Maximum Distortion at Central Meridian



Preliminary SPCS2022 statewide zone design:

Maine
(alternative 1)

NOAA's National Geodetic Survey

Oblique Mercator projection

North American Terrestrial Reference Frame of 2022

Origin latitude: 45° 00' N
Origin longitude: 69° 00' W
Skew axis scale: 0.999 95 (exact)
Skew azimuth: +30°

Areas within ±75 ppm distortion (1:13,333 = ±0.40 ft per mile):
99% of population
92% of all cities and towns
83% of entire zone area

Distortion values (ppm)

Entire zone:	*Cities and towns:*
Min = -264	Min, Max = -77, +209
Max = +227	Range = 287
Range = 491	Mean = -40
Mean = -10	(weighted by population)

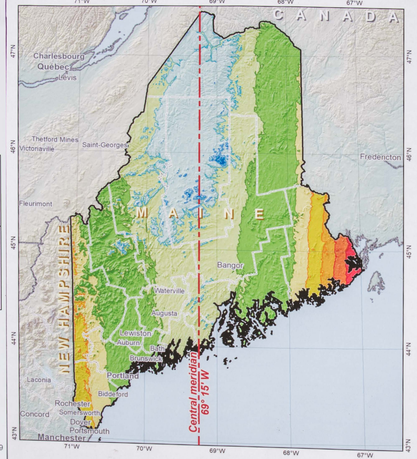
Linear distortion at topographic surface (parts per million)

< -400	to -200	to +150
to -400	to -150	to +200
to -350	to -100	to +250
to -300	±50	to +300
to -250	to +100	> +300

0 50 100 150 200 km

Created 01/28/2019

PROPOSED STATEWIDE SINGLE ZONES



Preliminary SPCS2022 statewide zone design:

Maine
(alternative 2)

NOAA's National Geodetic Survey

Transverse Mercator projection

North American Terrestrial Reference Frame of 2022

Central meridian: 69° 15' W
Cen merid scale: 0.999 93 (exact)

Areas within ±75 ppm distortion (1:13,333 = ±0.40 ft per mile):
90% of population
71% of all cities and towns
54% of entire zone area

Distortion values (ppm)

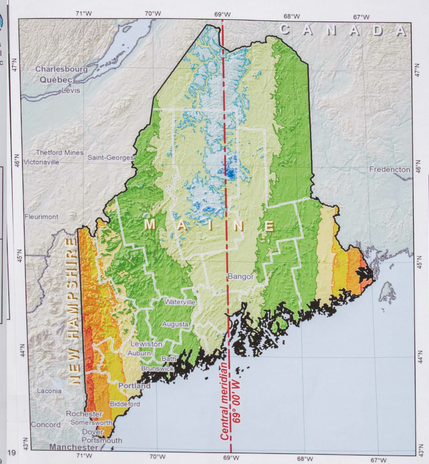
Entire zone:	*Cities and towns:*
Min = -301	Min, Max = -122, +326
Max = +339	Range = 448
Range = 640	Mean = -0.3
Mean = -32	(weighted by population)

Linear distortion at topographic surface (parts per million)

< -400	to -200	to +150
to -400	to -150	to +200
to -350	to -100	to +250
to -300	±50	to +300
to -250	to +100	> +300

0 50 100 150 200 km

Created 01/27/2019



Preliminary SPCS2022 statewide zone design:

Maine
(alternative 3)

NOAA's National Geodetic Survey

Transverse Mercator projection

North American Terrestrial Reference Frame of 2022

Central meridian: 69° 00' W
Cen merid scale: 0.999 94 (exact)

Areas within ±75 ppm distortion (1:13,333 = ±0.40 ft per mile):
75% of population
73% of all cities and towns
60% of entire zone area

Distortion values (ppm)

Entire zone:	*Cities and towns:*
Min = -298	Min, Max = -108, +254
Max = +265	Range = 361
Range = 564	Mean = +35
Mean = -18	(weighted by population)

Linear distortion at topographic surface (parts per million)

< -400	to -200	to +150
to -400	to -150	to +200
to -350	to -100	to +250
to -300	±50	to +300
to -250	to +100	> +300

0 50 100 150 200 km

Created 01/27/2019