HOUSE OF REPRESENTATIVES - FLOOR VERSION

STATE OF OKLAHOMA

2nd Session of the 59th Legislature (2024)

HOUSE BILL 3509   By: Johns

AS INTRODUCED

An Act relating to Oklahoma Coordinate System;
amending 60 O.S. 2021, Sections 1001, 1002, 1004,
1005, 1007, 1008, and 1009, which relate Oklahoma
Coordinate System; adding references to the Oklahoma
Plane Coordinate System; repealing 60 O.S. 2021,
Section 1006, which relates to limitations on
recording coordinates; and providing an effective
date.

BE IT ENACTED BY THE PEOPLE OF THE STATE OF OKLAHOMA:

SECTION 1.   AMENDATORY   60 O.S. 2021, Section 1001, is

amended to read as follows:

Section 1001. A. The systems of plane coordinates which have

been established by the National Oceanic and Atmospheric

Administration/National Geodetic Survey formerly the National Ocean

Service/National Geodetic Survey, formerly the United States Coast

and Geodetic Survey, or its successors for defining and stating the

geographic positions or locations of points on the surface of the

earth within the State of Oklahoma are hereafter to be known and

designated as the Oklahoma Coordinate System of 1927 and, the

1 | Oklahoma Coordinate System of 1983, and the Oklahoma Plane

2 | Coordinate System (OKPCS).

3 | For the purpose of the use of ~~these systems~~ the Oklahoma

4 | Coordinate System of 1927 and the Oklahoma Coordinate System of

5 | 1983, the state is divided into a North Zone and a South Zone.

6 | B. 1. The area now included in the following counties shall

7 | constitute the North Zone: Adair, Alfalfa, Beaver, Blaine,

8 | Canadian, Cherokee, Cimarron, Craig, Creek, Custer, Delaware, Dewey,

9 | Ellis, Garfield, Grant, Harper, Kay, Kingfisher, Lincoln, Logan,

10 | Major, Mayes, Muskogee, Noble, Nowata, Okfuskee, Oklahoma, Okmulgee,

11 | Osage, Ottawa, Pawnee, Payne, Roger Mills, Rogers, Sequoyah, Texas,

12 | Tulsa, Wagoner, Washington, Woods and Woodward.

13 | 2. The area now included in the following counties shall

14 | constitute the South Zone: Atoka, Beckham, Bryan, Caddo, Carter,

15 | Choctaw, Cleveland, Coal, Comanche, Cotton, Garvin, Grady, Greer,

16 | Harmon, Haskell, Hughes, Jackson, Jefferson, Johnston, Kiowa,

17 | Latimer, Leflore, Love, McClain, McCurtain, McIntosh, Marshall,

18 | Murray, Pittsburg, Pontotoc, Pottawatomie, Pushmataha, Seminole,

19 | Stephens, Tillman and Washita.

20 | 3. For the purpose of the use of the Oklahoma Plane Coordinate

21 | System (OKPCS), the most recent system of plane coordinate and zone

22 | designation that has been established by the National Geodetic

23 | Survey (NGS), or a successor, that is based on the North American

24 | Terrestrial Reference Frame of 2022 (NATRF2022), or a successor, and

1 the National Spatial Reference System (NSRS), or a successor, and

2 known as the State Plane Coordinate System (SPCS), or a successor,

3 for defining and stating the geographic positions or location of

4 points within the state must be known as the "Oklahoma Plane

5 Coordinate System" (OKPCS).

6   C. 1. As established for use in the North Zone, the Oklahoma

7 Coordinate System of 1927 or the Oklahoma Coordinate System of 1983

8 shall be named; and in any land description in which it is used, it

9 shall be designated the "Oklahoma Coordinate System of 1927 North

10 Zone" or the "Oklahoma Coordinate System of 1983 North Zone".

11   2. As established for use in the South Zone, the Oklahoma

12 Coordinate System of 1927 or the Oklahoma Coordinate System of 1983

13 shall be named; and in any land description in which it is used, it

14 shall be designated the "Oklahoma Coordinate System of 1927 South

15 Zone" or the "Oklahoma Coordinate System of 1983 South Zone".

16   3. As established for use, the Oklahoma Plane Coordinate System

17 (OKPCS) shall be named; and in any land description in which it is

18 used, it shall be designated the "Oklahoma Plane Coordinate System"

19 (OKPCS).

20   SECTION 2. AMENDATORY 60 O.S. 2021, Section 1002, is

21 amended to read as follows:

22   Section 1002. The plane coordinate values for a point on the

23 earth's surface, used to express the geographic position or location

24 of such point in the appropriate zone of this system, shall consist

of two (2) distances expressed in U.S. Survey Feet and decimals of a

foot when using the Oklahoma Coordinate System of 1927 and expressed

in meters or U.S. Survey feet and decimals of a meter or U.S. Survey

foot when using the Oklahoma Coordinate System of 1983 and expressed

in International feet or meters and decimals of an International

foot or meters when using the Oklahoma Plane Coordinate System

(OKPCS). One of these distances, to be known as the "x-coordinate"

(also known as "easting"), shall give the position in an east-and-

west direction; the other, to be known as the "y-coordinate" (also

known as "northing"), shall give the position in a north-and-south

direction. These coordinates ~~shall~~ must be made to depend ~~upon~~ on

and conform to plane rectangular coordinate values ~~for the~~

~~monumented points of the North American Horizontal Geodetic Control~~

~~Network as published~~ derived from the National Spatial Reference

System (NSRS) as defined and promulgated by the ~~National Ocean~~

~~Service~~ National Oceanic and Atmospheric Administration/National

Geodetic Survey, or its successors, and whose plane coordinates have

been computed on the systems defined in this act. ~~Any such station~~

~~may be used for establishing a survey connection to either Oklahoma~~

~~Coordinate System~~.

SECTION 3.   AMENDATORY   60 O.S. 2021, Section 1004, is

amended to read as follows:

Section 1004. When any tract of land to be defined by a single

description extends from one ~~into the other of the above~~ coordinate

1 zone into other zones, the positions of all points on its boundaries

2 ~~may~~ must be referred to ~~either~~ one of the ~~two~~ zones, the zone which

3 is used being specifically named in the description.

4 SECTION 4. AMENDATORY 60 O.S. 2021, Section 1005, is

5 amended to read as follows:

6 Section 1005. A. For purposes of more precisely defining the

7 Oklahoma Coordinate System of 1927, the following definition by the

8 United States Coast and Geodetic Survey (now National Ocean

9 Service/National Geodetic Survey) is adopted:

10 1. The "Oklahoma Coordinate System of 1927 North Zone", is a

11 Lambert conformal conic projection of the Clarke spheroid of 1866,

12 having parallels at north latitudes 35 degrees 34 minutes and 36

13 degrees 46 minutes along which parallels the scale shall be exact.

14 The origin of coordinates is at the intersection of the meridian 98

15 degrees 00 minutes west of Greenwich and the parallel 35 degrees 00

16 minutes north latitude. This origin is given the coordinates: x =

17 2,000,000 feet and y = 0 feet.

18 2. The "Oklahoma Coordinate System of 1927 South Zone", is a

19 Lambert conformal conic projection of the Clarke spheroid of 1866,

20 having parallels at north latitudes 33 degrees 56 minutes and 35

21 degrees 14 minutes along which parallels the scale shall be exact.

22 The origin of coordinates is at the intersection of the meridian 98

23 degrees 00 minutes west of Greenwich and the parallel 33 degrees 20

24

1 minutes north latitude. This origin is given the coordinates: x =

2 2,000,000 feet and y = 0 feet.

3   B. For purposes of more precisely defining the Oklahoma

4 Coordinate System of 1983, the following definition by the National

5 Ocean Service/National Geodetic Survey is adopted:

6   1. The "Oklahoma Coordinate System of 1983 North Zone" is a

7 Lambert conformal conic projection of the North American Datum of

8 1983, having parallels at north latitudes 35 degrees 34 minutes and

9 36 degrees 46 minutes along which parallels the scale shall be

10 exact. The origin of coordinates is at the intersection of the

11 meridian 98 degrees 00 minutes west of Greenwich and the parallel 35

12 degrees 00 minutes north latitude. This origin is given the

13 coordinates: x = 600,000 meters and y = 0 meters.

14   2. The "Oklahoma Coordinate System of 1983 South Zone" is a

15 Lambert conformal conic projection of the North American Datum of

16 1983, having standard parallels at north latitudes 33 degrees 56

17 minutes and 35 degrees 14 minutes along which parallels the scale

18 shall be exact. The origin of coordinates is at the intersection of

19 the meridian 98 degrees 00 minutes west of Greenwich and the

20 parallel 33 degrees 20 minutes north latitude. This origin is given

21 the coordinates: x = 600,000 meters and y = 0 meters.

22   C. For purposes of more precisely defining the Oklahoma Plane

23 Coordinate System (OKPCS) the Oklahoma Plane Coordinate System must

24 be the State Plane Coordinate System of 2022 (SPC2022)or its most

1 recent successor as defined by the National Geodetic Survey or its

2 successor agency.

3   SECTION 5.   AMENDATORY   60 O.S. 2021, Section 1007, is

4 amended to read as follows:

5   Section 1007. A. For the Oklahoma Coordinate System, of 1927

6 and the Oklahoma Coordinate System of 1983 the unit used to convert

7 feet to meters shall be the United States survey foot 39.37/12 feet

8 for each meter and defined as the U.S. survey foot.

9   B. For the Oklahoma Plane Coordinate System (OKPCS) the

10 international conversion value (1 International foot equals 0.3048

11 meters exactly) must be used and defined as foot.

12   SECTION 6.   AMENDATORY   60 O.S. 2021, Section 1008, is

13 amended to read as follows:

14   Section 1008. A. The use of the "Oklahoma Coordinate System of

15 1927 North Zone", or the term "Oklahoma Coordinate System of 1927

16 South Zone" or "Oklahoma Coordinate System of 1983 North Zone" or

17 "Oklahoma Coordinate System of 1983 South Zone" or "Oklahoma Plane

18 Coordinate System" (OKPCS) on any map, report of survey, or other

19 document shall be limited to coordinates based on the Oklahoma

20 Coordinate System as defined in this act.

21   B. Any legal description prepared prior to November 1, 1990 the

22 most recent system of plane coordinates established by the National

23 Geodetic Survey (NGS) or its successor, or any continual use of

24 legal descriptions prepared pursuant to the provisions of this act

1 which have been recorded or filed in official records within the

2 State of Oklahoma, shall not be affected by this section.

3   C. Nonconformity with the Oklahoma Coordinate System

4 established by this act shall not invalidate any deed, map, plat,

5 survey, description or other document which is otherwise proper.

6   SECTION 7.   AMENDATORY   60 O.S. 2021, Section 1009, is

7 amended to read as follows:

8   Section 1009. Nothing in this act shall invalidate or affect

9 surveys done by the land tie method or surveys referring to the

10 Indian ~~Base and~~ Meridian <u>and Baseline or Cimarron Meridian and</u>

11 <u>Baseline</u>.

12   SECTION 8.   REPEALER   60 O.S. 2021, Section 1006, is

13 hereby repealed.

14   SECTION 9. This act shall become effective November 1, 2024.

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16 COMMITTEE REPORT BY: COMMITTEE ON GOVERNMENT MODERNIZATION AND
    TECHNOLOGY, dated 02/13/2024 - DO PASS.

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