

An Act

ENROLLED HOUSE
BILL NO. 3509

By: Johns of the House

and

Stewart of the Senate

An Act relating to Oklahoma Coordinate System; amending 60 O.S. 2021, Sections 1001, 1002, 1004, 1005, 1007, 1008, and 1009, which relate to the Oklahoma Coordinate System; adding references to the Oklahoma Plane Coordinate System (OKPCS); providing purpose for using the OKPCS; requiring land descriptions to name and designate OKPCS when used; updating requirements for plane coordinate values; requiring positions of all points on boundaries to be referenced to a zone; stating purpose for defining the OKPCS; defining terms; updating internal references to certain system of plane coordinates; prohibiting invalidation of surveys referring to certain baseline; repealing 60 O.S. 2021, Section 1006, which relates to limitations on recording coordinates; and providing an effective date.

SUBJECT: Oklahoma Coordinate System

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

Oklahoma Coordinate System of 1983, and the Oklahoma Plane Coordinate System (OKPCS).

For the purpose of the use of ~~these systems~~ the Oklahoma Coordinate System of 1927 and the Oklahoma Coordinate System of 1983, the state is divided into a North Zone and a South Zone.

B. 1. The area now included in the following counties shall constitute the North Zone: Adair, Alfalfa, Beaver, Blaine, Canadian, Cherokee, Cimarron, Craig, Creek, Custer, Delaware, Dewey, Ellis, Garfield, Grant, Harper, Kay, Kingfisher, Lincoln, Logan, Major, Mayes, Muskogee, Noble, Nowata, Okfuskee, Oklahoma, Okmulgee, Osage, Ottawa, Pawnee, Payne, Roger Mills, Rogers, Sequoyah, Texas, Tulsa, Wagoner, Washington, Woods and Woodward.

2. The area now included in the following counties shall constitute the South Zone: Atoka, Beckham, Bryan, Caddo, Carter, Choctaw, Cleveland, Coal, Comanche, Cotton, Garvin, Grady, Greer, Harmon, Haskell, Hughes, Jackson, Jefferson, Johnston, Kiowa, Latimer, Leflore, Love, McClain, McCurtain, McIntosh, Marshall, Murray, Pittsburg, Pontotoc, Pottawatomie, Pushmataha, Seminole, Stephens, Tillman and Washita.

3. For the purpose of the use of the Oklahoma Plane Coordinate System (OKPCS), the most recent system of plane coordinate and zone designation that has been established by the National Geodetic Survey (NGS), or a successor, that is based on the North American Terrestrial Reference Frame of 2022 (NATRF2022), or a successor, and the National Spatial Reference System (NSRS), or a successor, and known as the State Plane Coordinate System (SPCS), or a successor, for defining and stating the geographic positions or location of points within the state shall be known as the "Oklahoma Plane Coordinate System" (OKPCS).

C. 1. As established for use in the North Zone, the Oklahoma Coordinate System of 1927 or the Oklahoma Coordinate System of 1983 shall be named; and in any land description in which it is used, it shall be designated the "Oklahoma Coordinate System of 1927 North Zone" or the "Oklahoma Coordinate System of 1983 North Zone".

2. As established for use in the South Zone, the Oklahoma Coordinate System of 1927 or the Oklahoma Coordinate System of 1983 shall be named; and in any land description in which it is used, it shall be designated the "Oklahoma Coordinate System of 1927 South Zone" or the "Oklahoma Coordinate System of 1983 South Zone".

3. As established for use, the Oklahoma Plane Coordinate System (OKPCS) shall be named, and in any land description in which it is used, it shall be designated the "Oklahoma Plane Coordinate System" (OKPCS).

SECTION 2. AMENDATORY 60 O.S. 2021, Section 1002, is amended to read as follows:

Section 1002. The plane coordinate values for a point on the earth's surface, used to express the geographic position or location 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 meter 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 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 zone into other zones, the positions of all points on its boundaries ~~may~~ shall be referred to ~~either one~~ one of the ~~two~~ zones, the zone which is used being specifically named in the description.

SECTION 4. AMENDATORY 60 O.S. 2021, Section 1005, is amended to read as follows:

Section 1005. A. For purposes of more precisely defining the Oklahoma Coordinate System of 1927, the following definition by the United States Coast and Geodetic Survey (now National Ocean Service/National Geodetic Survey) is adopted:

1. The "Oklahoma Coordinate System of 1927 North Zone", is a Lambert conformal conic projection of the Clarke spheroid of 1866, having parallels at north latitudes 35 degrees 34 minutes and 36 degrees 46 minutes along which parallels the scale shall be exact. The origin of coordinates is at the intersection of the meridian 98 degrees 00 minutes west of Greenwich and the parallel 35 degrees 00 minutes north latitude. This origin is given the coordinates: $x = 2,000,000$ feet and $y = 0$ feet.

2. The "Oklahoma Coordinate System of 1927 South Zone", is a Lambert conformal conic projection of the Clarke spheroid of 1866, having parallels at north latitudes 33 degrees 56 minutes and 35 degrees 14 minutes along which parallels the scale shall be exact. The origin of coordinates is at the intersection of the meridian 98 degrees 00 minutes west of Greenwich and the parallel 33 degrees 20 minutes north latitude. This origin is given the coordinates: $x = 2,000,000$ feet and $y = 0$ feet.

B. For purposes of more precisely defining the Oklahoma Coordinate System of 1983, the following definition by the National Ocean Service/National Geodetic Survey is adopted:

1. The "Oklahoma Coordinate System of 1983 North Zone" is a Lambert conformal conic projection of the North American Datum of 1983, having parallels at north latitudes 35 degrees 34 minutes and 36 degrees 46 minutes along which parallels the scale shall be exact. The origin of coordinates is at the intersection of the meridian 98 degrees 00 minutes west of Greenwich and the parallel 35 degrees 00 minutes north latitude. This origin is given the coordinates: $x = 600,000$ meters and $y = 0$ meters.

2. The "Oklahoma Coordinate System of 1983 South Zone" is a Lambert conformal conic projection of the North American Datum of 1983, having standard parallels at north latitudes 33 degrees 56 minutes and 35 degrees 14 minutes along which parallels the scale shall be exact. The origin of coordinates is at the intersection of the meridian 98 degrees 00 minutes west of Greenwich and the parallel 33 degrees 20 minutes north latitude. This origin is given the coordinates: $x = 600,000$ meters and $y = 0$ meters.

C. For purposes of more precisely defining the Oklahoma Plane Coordinate System (OKPCS), the Oklahoma Plane Coordinate System shall be the State Plane Coordinate System of 2022 (SPC2022) or its most recent successor as defined by the National Geodetic Survey or its successor agency.

SECTION 5. AMENDATORY 60 O.S. 2021, Section 1007, is amended to read as follows:

Section 1007. A. For the Oklahoma Coordinate System of 1927 and the Oklahoma Coordinate System of 1983, the unit used to convert feet to meters shall be the United States survey foot 39.37/12 feet for each meter and defined as the U.S. survey foot.

B. For the Oklahoma Plane Coordinate System (OKPCS), the international conversion value (1 International foot equals 0.3048 meters exactly) shall be used and defined as a foot.

SECTION 6. AMENDATORY 60 O.S. 2021, Section 1008, is amended to read as follows:

Section 1008. A. The use of the "Oklahoma Coordinate System of 1927 North Zone", or the term "Oklahoma Coordinate System of 1927 South Zone" or "Oklahoma Coordinate System of 1983 North Zone" or "Oklahoma Coordinate System of 1983 South Zone" or "Oklahoma Plane Coordinate System" (OKPCS) on any map, report of survey, or other document shall be limited to coordinates based on the Oklahoma Coordinate System as defined in this act.

B. Any legal description prepared prior to ~~November 1, 1990~~ the most recent system of plane coordinates established by the National Geodetic Survey (NGS) or its successor, or any continual use of legal descriptions prepared pursuant to the provisions of this act which have been recorded or filed in official records within the State of Oklahoma, shall not be affected by this section.

C. Nonconformity with the Oklahoma Coordinate System established by this act shall not invalidate any deed, map, plat, survey, description or other document which is otherwise proper.

SECTION 7. AMENDATORY 60 O.S. 2021, Section 1009, is amended to read as follows:

Section 1009. Nothing in this act shall invalidate or affect surveys done by the land tie method or surveys referring to the

Indian ~~Base~~ and Meridian and Baseline or Cimarron Meridian and Baseline.

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

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

Passed the House of Representatives the 27th day of February, 2024.

Presiding Officer of the House
of Representatives

Passed the Senate the 24th day of April, 2024.

Presiding Officer of the Senate

OFFICE OF THE GOVERNOR

Received by the Office of the Governor this _____

day of _____, 20_____, at _____ o'clock _____ M.

By: _____

Approved by the Governor of the State of Oklahoma this _____

day of _____, 20_____, at _____ o'clock _____ M.

Governor of the State of Oklahoma

OFFICE OF THE SECRETARY OF STATE

Received by the Office of the Secretary of State this _____

day of _____, 20_____, at _____ o'clock _____ M.

By: _____