

## 10 KAR 5:010. The Kentucky Single Zone Coordinate System of 1983.

RELATES TO: KRS 42.630, 42.650

STATUTORY AUTHORITY: KRS 42.650(5)

NECESSITY, FUNCTION, AND CONFORMITY: KRS 42.650(5) authorizes the Office of Geographic Information to promulgate administrative regulations to implement that statute. KRS 42.650(4)(b) requires the office to coordinate multiagency geographic information projects and data. This administrative regulation establishes the Kentucky Single Zone Coordinate System of 1983 as a recognized method for seamlessly referencing geographic positions and spatial data pertaining to locations lying on, within, or reasonably near the boundaries of the Commonwealth of Kentucky.

Section 1. Definitions. (1) "A recognized method" means that the use of the Kentucky Single Zone Coordinate System of 1983 as established in Section 2 of this administrative regulation is acceptable for the dissemination of geographic positions and other spatial data pertaining to the Commonwealth of Kentucky.

(2) "Seamlessly referencing" means covering the entire state continuously in a balanced manner that attempts to minimize distortion ratios between actual positions on the ground and corresponding values on the projection plane.

(3) "Spatial data" means information pertaining to the location, shape, and relationships among geographic features in electronic format that can be represented graphically as a map.

Section 2. (1) The Kentucky Single Zone State Plane Coordinate System of 1983 shall:

(a) Be based on Lambert Conformal Conic map projection with double standard parallels on the North American Datum of 1983 (NAD83) utilizing the ellipsoid defined by the Geodetic Reference System of 1980 (GRS80);

(b) Be defined by the following parameters:

1. North Standard Parallel: 38 degrees 40 minutes North Latitude;
2. South Standard Parallel: 37 degrees 05 minutes North Latitude;
3. Parallel of Grid Origin: 36 degrees 20 minutes North Latitude;
4. Meridian of Grid Origin: 85 degrees 45 minutes West Longitude;
5. False Northing: 1,000,000 meters; and
6. False Easting: 1,500,000 meters;

(c) Use the United States Survey Foot as the linear unit of measure as defined by the following metric conversions and be expressed to twelve (12) significant figures when utilized as decimal equivalents:

1. One (1) U.S. Survey foot equals 1200/3937 meter; or
2. One (1) meter equals 3937/1200 feet.

(2) The Kentucky Single Zone Coordinate System of 1983 as established in subsection (1) of this section is adopted in addition to the Kentucky Coordinate System of 1983 as established by KRS 1.010 and 1.020, and other coordinate systems currently in use.

(3) The use of the Single Zone Coordinate System of 1983 shall be voluntary, but strongly recommended as the desired method for seamlessly referencing geographic positions and spatial data pertaining to the Commonwealth of Kentucky. (27 Ky.R. 3388; 28 Ky.R. 348; eff. 8-15-2001.)