This map is based on gravity data collected during 1979-1992. The measurements were taken along 2-mile-long parallel east-west roads every 1 mile along parallel north-south roads every 1 mile in western Kansas and 1.5 miles every 1 mile in eastern Kansas. The survey was completed using the K-22 and Airborne 2 instruments primarily. The number of gravity-station measurements was approximately 15000. Each day's data were corrected for tidal changes. Three stations served as benchmarks. The Bouguer anomaly was calculated by subtracting the mean Bouguer anomaly of the surrounding area. The results are displayed on a background of a topographic map of Kansas. For more information on the acquisition of the gravity data, refer to "Gravity in Kansas" by A. A. Malamud. The contour intervals are 0.01 mgal. The accuracy of the location and elevation readings is ±0.5 ft. The Bouguer anomalies were gridded and contoured using GRASS, a computer software developed by Robert Osgood at the Kansas Geological Survey. The assistance of Duane Asians was used to grid the data.