DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Prepared in cooperation with the
IOWA GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-910

EXPLANATION

Magnetic contours

*Showing total intensity magnetic field of the earth in gammas relative to an arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity; dashed where data are incomplete. Main magnetic field of the earth, from Fabiano and Peddie (1969), has been removed. Contour intervals 100 and 500 gammas*

SOURCES OF DATA

Data used to compile this map were published by the U.S. Geological Survey, A (Henderson and Vargo, 1965), and by the Iowa Geological Survey, B (1965), C (1968), D (1969), E (1970), and F (1973). The flight elevation for all the total intensity aeromagnetic surveys was 1000 feet above ground level, except area F which was 2000 feet above sea level. The flight direction and spacing for all the surveys was east-west and one mile respectively. Data for areas B, C, E, and D were surveyed and compiled by Aero Service Corporation in 1964, 1966, 1968, and 1970, respectively. Data for area F were surveyed and compiled by Lockwood, Kosler, and Bartlett in 1972.

INDEX MAP SHOWING SOURCES OF DATA

REFERENCES CITED


Fabiano, E. B., and Peddie, N. W., 1969, Grid values of total magnetic intensity IGRF-1965: U.S. ESSA Tech. Rept. C and GS 38, 65 p.

Henderson, J. R., and Vargo, J. L., 1965, Aeromagnetic map of central Iowa: U.S. Geol. Survey Geophys. Inv. Map GP-476.

Iowa Geol. Survey, 1965, Preliminary interpretation report, airborne magnetometer survey of northwestern Iowa.

_____1968, Preliminary interpretation report, airborne magnetometer survey of northeastern Iowa.

_____1969, Preliminary interpretation report, airborne magnetometer survey of east-central Iowa.

_____1970, Preliminary interpretation report, airborne magnetometer survey of southeastern Iowa.

_____1973, Preliminary interpretation report, airborne magnetometer survey of southern Iowa.


SCALE 1:500 000

LAMBERT CONFORMAL CONIC PROJECTION

Base from U.S. Geological Survey
State base map, 1965, 1:1,000,000

# AEROMAGNETIC MAP OF IOWA

1976


Interior—Geological Survey, Reston, Va.—1976—GS03S

For sale by Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225