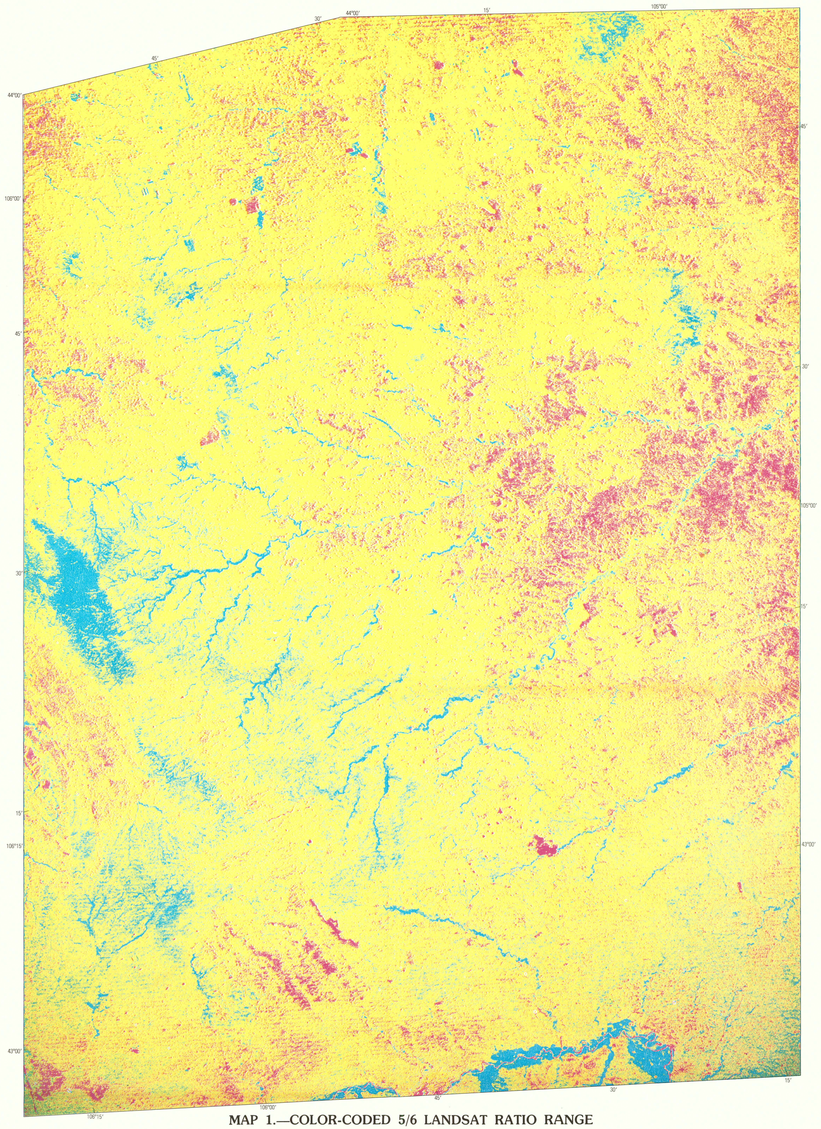
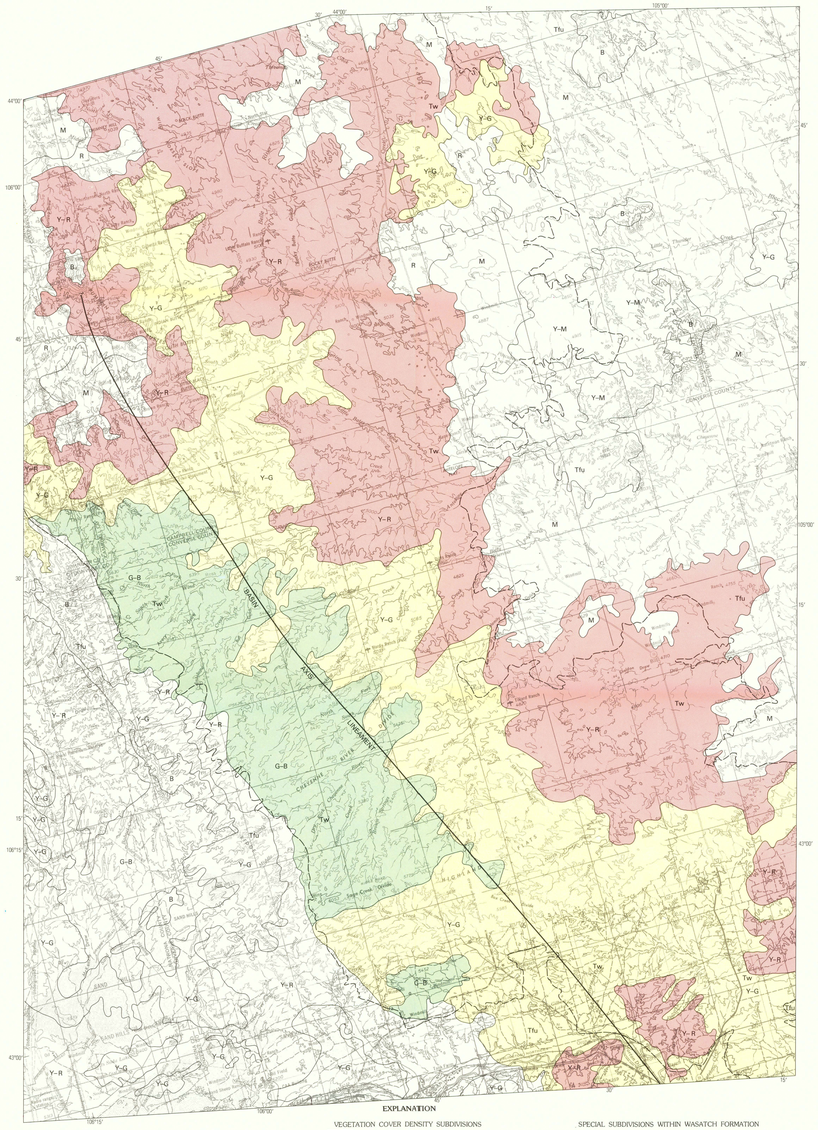
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



MAP 1.—COLOR-CODED 5/6 LANDSAT RATIO RANGE



EXPLANATION

Tw WASATCH FORMATION } TERTIARY
Tfu FORT UNION FORMATION }
WASATCH-FORT UNION CONTACT—From Denson and Horn (1975) and Denson (written commun., 1977)
VEGETATION COVER DENSITY BOUNDARY—Generally gradational
STRUCTURAL LINE—Approximately located

VEGETATION COVER DENSITY SUBDIVISIONS

M	Magenta-Predominately Fort Union Formation	
R	Red	
Y-M	Yellow-magenta	
Y-R	Yellow-red	
Y-G	Yellow-green	Predominately Wasatch Formation
G-B	Green-blue	
B	Blue	

Increasing vegetation cover density; Increasing sand content; Increasing clay content

NOTE: Symbols refer to the colors on map 1

SPECIAL SUBDIVISIONS WITHIN WASATCH FORMATION

Y-R	Fine grained—Clay rich
Y-G	Intermediate grained—Uranium bearing
G-B	Coarse grained—Sand rich

MAP 2.—MAP SHOWING VEGETATION COVER DENSITY

EXPLANATION

Tw WASATCH FORMATION } TERTIARY
Tfu FORT UNION FORMATION }
WASATCH-FORT UNION CONTACT—From Denson and Horn (1975) and Denson (written commun., 1977)
CONTOURS OF CONCENTRATION OF LIMONITIC PIXELS—Contour interval is 5 pixels per 6 X 6 pixel cell (480 X 480 m cell). A pixel is one resolution cell of the Landsat Satellite and has dimensions of 80 X 80 m
>10 LIMONITIC PIXELS PER 36 PIXEL GRID CELL—Greater than 28% of 480 X 480 m cell
5–10 LIMONITIC PIXELS PER 36 PIXEL GRID CELL—14% to 28% of 480 X 480 m cell

MAP 3.—MAP SHOWING LIMONITE DISTRIBUTION

Base from U.S. Geological Survey
Ammiro, 1955–74, Casper, 1955–61,
Newcastle, 1955–62 and Torrington, 1954–62

SCALE 1:250 000

CONTOUR INTERVAL 200 FOOT
NATIONAL GEODETIC VERTICAL DATUM OF 1929

WYOMING
QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1980—G80082

Compiled by Gary L. Raines, 1979

MAPS SHOWING LITHOFACIES AND LIMONITE DISTRIBUTION OF THE WASATCH FORMATION IN SOUTHERN POWDER RIVER BASIN, WYOMING

By
Gary L. Raines and Elmer S. Santos

1980

For sale by Branch of Distribution, U.S. Geological Survey
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