



EXPLANATION
UPLAND AREAS

- Slopes generally less than 10 percent; vegetative cover good; sheet and gully erosion slight; low sediment yield to tributary channels. Surficial mantle is moderately sandy, and infiltration rates are relatively high
- Slopes range from 10 to 15 percent; vegetative cover fair; sheet and gully erosion locally severe; gully erosion locally severe; minor aggradation in tributary channels; moderate sediment yield to tributary channels. Surficial mantle is fine grained, and infiltration rates are generally low
- Slopes range from 4 to 6 percent; vegetative cover fair; sheet erosion locally very severe; relatively high sediment yield from areas of severe sheet erosion; moderate to high sediment yield to tributary channels. Surficial mantle is fine grained, mostly derived from Pierre shale; and infiltration rates are low
- Slopes range from 5 to 25 percent; vegetative cover fair to poor; sheet and rill erosion generally severe; gully erosion locally severe; includes most major erosion problem areas with high sediment yield to tributary channels. Surficial mantle is medium to fine grained, and infiltration rates are generally low

STREAM CHANNELS

- Main channels are well grassed with little evidence of bank erosion; channels are well defined and able to transport much of the sediment derived from upland sources although channel systems have a very low sediment yield
 - Main channels have well-grassed banks and barren floor eroded in either alluvium or coarse gravel. Channel system able to transport most of the sediment contributed to them. Little evidence of bank erosion
 - Main channels are actively eroding in alluvium; streambank erosion severe in localized reaches. Channel system able to transport most of sediment contributed, and sediment yield is high from bank cutting
 - Main channel may be severely eroded, but storage and diversion dams constructed on main channels trap much of the transported sediment and appreciably reduce sediment yield
 - Reaches of stream channel and adjacent flood-plain areas where erosion control measures could be initiated
- Earth-fill diversion dam

MAP OF THE EXTREME WESTERN AND NORTHWESTERN PARTS OF THE CHEYENNE RIVER BASIN, WYOMING, INCLUDING BLACK THUNDER CREEK AND LODGEPOLE CREEK, SHOWING EROSIONAL CHARACTERISTICS OF UPLANDS AND CHANNELS

