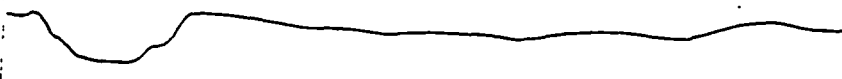
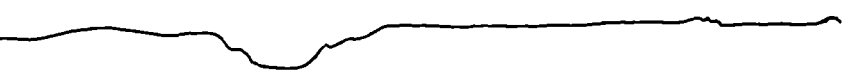


TABLE 47
GREGORY LAND SYSTEM (900 SQ. MILES)

Location and general description	Four areas of nearly treeless Mitchell grass plains associated with the Gregory River system in the NE. corner of the region			
Climate	Wettest locality: av. ann. rainfall 24 in.; estimated growing periods: agricultural exceeds 12 weeks in 40%, 16 weeks in 15% of years; pastoral exceeds 12 weeks in 85%, 16 weeks in 65% of years. Corresponding values for driest locality: 20 in., 20%, 5%, 75%, 50%			
Geology and geomorphology	One of the land systems of the Post-Miocene Coastal Alluvia and Post-Miocene Flood Plain Alluvia of Coastal Rivers derived mostly from calcareous rocks. As a result of stream entrenchment following Recent sea recession they are no longer subject to flooding			
Topography	Permanently flowing streamlines	Narrow levees	Slightly undulating plains with scattered gilgais	Slight rises of old levees
Cross section and relative areas				
	Very small	Very small	Large	Very small
Distribution of units	Large areas of the third unit are cut by narrow bands of the first, second, and fourth units			
Vegetation	Fringing forest	<i>E. papuana</i> — <i>E. tectifera</i> Woodland	<i>Astrelba pectinata</i> Grassland	Variant of <i>E. papuana</i> — <i>E. tectifera</i> Woodland
Soils	—	Brownish grey levee soils	Heavy Grey Pedocals	Alluvial Red-brown Earths of Gulf Fall
Drainage	Drained by a well-developed pattern of broadly anabranching streamlines of the Gregory River and Lawn Hill Creek drainage systems			

Main inclusions: Mt. Isa, Thornton.

TABLE 48
BALBIRINI LAND SYSTEM (1,400 SQ. MILES)

Location and general description	Lightly timbered "black-soil" plains occurring as small areas in river valleys in the NW. portion of the region with one larger area near Burketown in the east			
Climate	Wettest locality: av. ann. rainfall 30 in.; estimated growing periods: agricultural exceeds 12 weeks in 70%, 16 weeks in 35% of years; pastoral exceeds 12 weeks in 95%, 13 weeks in 85% of years. Corresponding values for driest locality: 23 in., 35%, 10%, 85%, 65%			
Geology and geomorphology	One of the land systems of the Post-Miocene Coastal Alluvia and Post-Miocene Flood Plain Alluvia derived mostly from calcareous rocks. They are no longer subject to saline influence and are above flood level owing to weak stream entrenchment following Recent sea recession or by lowering of base level of streams			
Topography	Slight rise of old levees	Slightly dissected sloping banks of major streams	Nearly flat plains	Nearly flat plains with limestone patches
Cross section and relative areas				
	Small	Small	Large	Small
Distribution of units	The third unit extends over large areas in all occurrences, but the first unit occurs as narrow, linear rises only near Borroloola, the second as linear bands along major rivers near Burketown, and the fourth as irregular areas near O.T. Downs			
Vegetation	<i>E. papuana</i> — <i>E. tectifera</i> Woodland	<i>E. microtheca</i> fringing community	<i>Eulalia fulca</i> — <i>Dichanthium fecundum</i> Grassland or <i>Bauhinia cunninghamii</i> — <i>Eulalia fulca</i> — <i>Dichanthium fecundum</i> Woodland	<i>Eulalia fulca</i> — <i>Dichanthium fecundum</i> Grassland, with patches <i>Terminalia</i> spp.— <i>Bauhinia cunninghamii</i> — <i>Cochlospermum</i> sp. Shrub Woodland
Soils	Gulf Alluvial Red-brown Earths	Northern Heavy Grey Pedocals	Northern Heavy Grey Pedocals	Northern Heavy Grey Pedocals with patches of skeletal soil
Drainage	In the E. section there is a well-developed pattern of braided stream channels associated with the Gregory River but in the NW. the areas are too small to have well-defined drainage patterns			

Survey of the Barkly Region, Northern Territory and Queensland, 1947-48

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