

TABLE SHOWING CORRELATION OF MIOCENE AND PLIOCENE FORMATIONS.

	LONG ISLAND AND SOUTHERN NEW ENGLAND.	NEW JERSEY.	MARYLAND AND DELAWARE.	VIRGINIA.	NORTH CAROLINA.
Pliocene--			"Lafayette"	"Lafayette"	"Lafayette." Waccamaw.
				Yorktown--	Yorktown-- Duplin.
Miocene--			St. Marys --	St. Marys --	St. Marys.
	Long Island and Martha's Vine- yard deposits.	Cohansey and Beacon Hill.	Choptank		
		Kirkwood-----	Calvert-----	Calvert-----	

COHARIE FORMATION.

The Coharie formation, like the Lafayette formation, can only be correlated on the basis of physical criteria. The Coharie terrace, which is best developed in the more southern counties of the belt, where it occupies a position below the Lafayette and above the Sunderland, gradually disappears northward. The Coharie terrace has been traced southward into South Carolina, but its extent and relations are imperfectly known.

The age of the Sunderland and later terraces has been generally recognized as Pleistocene, and it is probable that the Coharie should also be regarded as of Pleistocene age. The fossil leaves found in the Sunderland farther north belong mostly to living species, while the relatively small physical changes that have occurred indicate that the deposits cannot be older than Pleistocene. Whether they represent the earliest phase of Pleistocene deposition has not been settled, and cannot be until the age of the Lafayette formation is finally determined.

SUNDERLAND FORMATION.

The Sunderland formation is more extensively developed than the Coharie and its surface has suffered less from erosion than has the former. Its location both in reference to higher and lower terraces and the fact that it can be traced northward into the Sunderland formation of Maryland shows that it must be regarded as the equivalent of the latter. The escarpment separating the Sunderland terrace from the Wicomico can be clearly traced from North Carolina across Virginia into Maryland, where the relations were first observed and described.

The materials and surface characteristics of the Sunderland terrace