Carbonates accumulate in two morphogenetic sequences, one in non-gravelly materials and the other in gravelly materials. Morphologies are best expressed where "nongravelly" materials contain less than about 20% by volume of gravel, and "gravelly" materials contain more than about 60% by volume of gravel. Materials that have between 20% and 60% by volume of gravel have intermediately morphologies. See stages of carbonate accumulation in legend. Stage V not shown in diagram above. Stages indicated are dominant for the map unit. Stage I includes some units that lack microscopic carbonate, these occur in youngest deposits in the area and at higher elevations in the semi-arid zone. Stage V includes some stages III and IV, which occur mostly along scarps. Some units designated stage IV have small areas of stage III, estimated to occupy less than 10 percent of the unit. Some delineations of units designated IV, contain quite high percentages of stage IV, but the unit as a whole contains more than 10 percent of stage III.