

In Mexico they routinely burn cane patches, our policy here is ^{that} if the fire is started from lightning it is allowed to burn out, unless it could cause lives or property. Fires crackle from moisture in cane and seem to explode in some cases. Last frost was 1000 feet and burned overnight. Upper trail on slopes require constant rehabilitation, in cane patches people along maintain trail from traffic in and out. Tamarisk has salty taste. It is introduced. It is a water hog and a patch will consume 200 gallons per day. It was introduced by Spanish but some say as late as 1930's. Tolerant to salt waters and is now on all the major rivers in ^Swestern U.S. Tamarisk in park are moving in on spruce and due to their high water content are shutting them off and they become dry at the detriment to wild life populations. They are controlled in the park. It has no competition by insects, animals or other plants. Hydrilla in Florida is not hydrangea and is choking waterway. Tarantula killer wasp can carry a tarantula to its burrow. Horses from Mexico if repeated offenders are impounded. Transpeers is area west of Pecos to Rio Grande. Big Bend area ^N to Union Pacific railroad. River dry at El Paso and fed below from river from Mexico. Rio Grande a gummy river because of kinds of land it runs over. Sand below cone on N side can only get larger. The walls of the canyon are 1800 feet high and were put down by deposits in the sea from calcified skeletons of small organisms. At one point these rocks were below the sea and as they are now 1800' above this level we can only assume that they have been elevated, not all to the same degree as they slope in one direction. At that time there was this river that crossed the low lying mountains and when the mts were uplifted the river kept pace with the uplift so that today the river is down to about the same level as before the uplift. The river cuts much more quickly when associated with uplift so much so that the walls are steep and the upper profiles have not eroded. If the river had cut slowly without uplift the walls would have been V shape and the top of the canyon because of the great time would have been more rounded and more extensively eroded. I can never resist taking pictures of sheer canyon walls and blue sky. The canyon wren is my social barometer and where a canyon wren lives so will I. Plants in crevices have a tenuous hold on life and they get just enough moisture to make it.