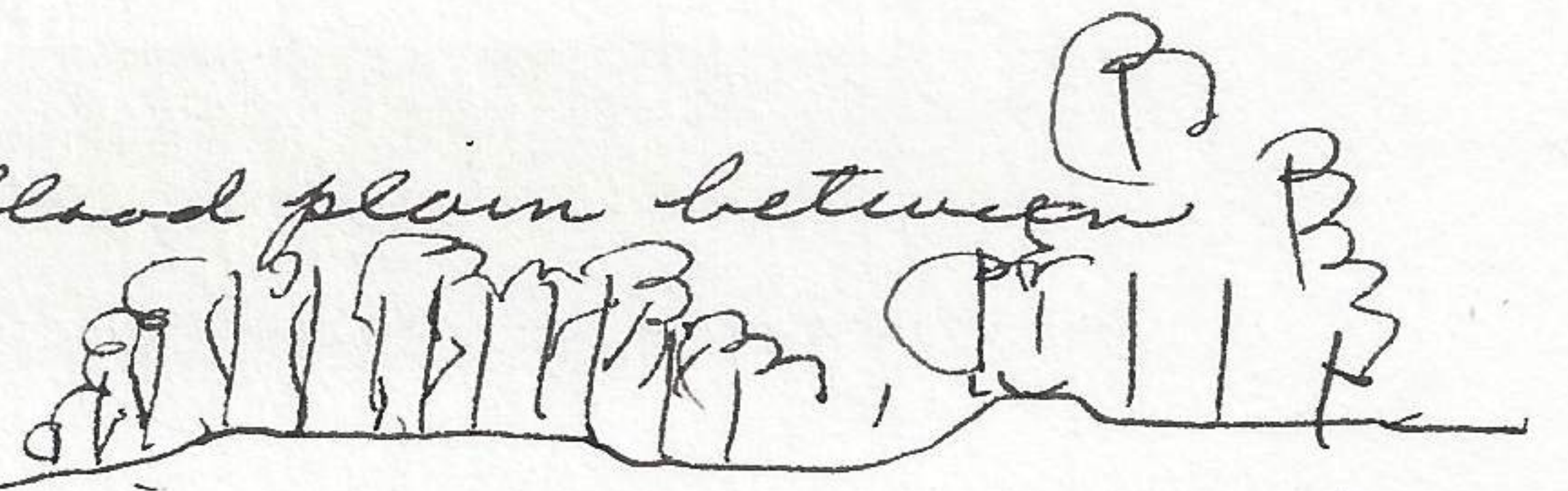


Oct 24, 1971

Mary and I collected plants on active flood plain between stabilized willows and edge of water



river sands beetles old channel young willow and cottonwood mature cottonwood

The following plants were collected:

On four stems, 3 feet high on black willow on sands (see above), collected the entire population of ^{blue} beetles. They were in six aggregates averaging 2 1/2' above the sands. The six groups contained individuals. No 711024-1
Family Chrysomelidae



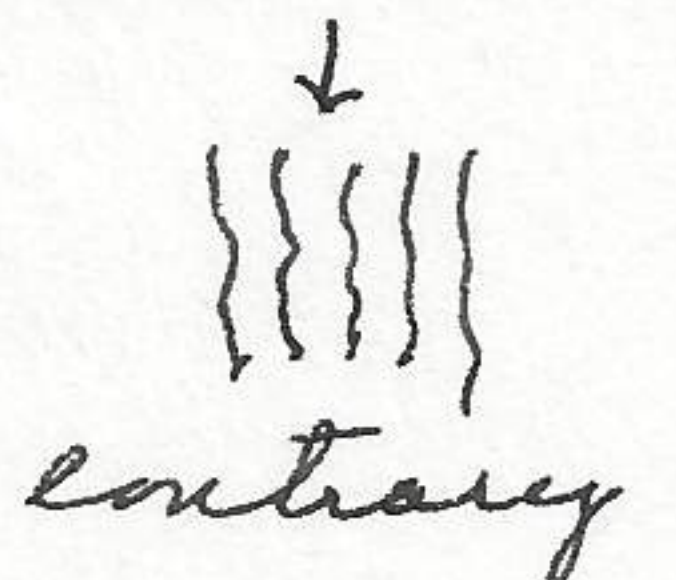
Flock 88 blues and 20 snows flew over area and called. Approx 12 killdeers fed along edge of sand in shallow water which was polluted with skum and oils. Fresh great blue heron tracks and seven turtle tracks (2" wide) were in mud and sands. The old channel along N edge of river is now sealed with sand. The beavers which used this area have been displaced. In open fields 1/2 mile N observed 1 am. roughleg + 2 sparrow hawks.

Mouth mud Creek, Leavenworth Co., Kansas
Nov. 7, 1971

Annette and I checked same areas as of Oct 24. Day cold and windy. The river had risen over sands and had again receded to same level as of Oct 24, leaving the sand bars damp and in many places muddy. Sand ripples were exceedingly variable, some formations contrary to usual ripples which are usually 90° to flow of water. In other words

the ripple effect was 90° to flow of water thus:

These sand sculplings are marks of unusual beauty. 8 killdeer and one knifefish in area. 26 crows



flew SW across river in downstream formation

1 mi N, 1 1/2 mi W Fall Leaf, Leavenworth Co., Kansas
Nov 7, 1971

At a drainage crossing on E-W road observed a leucote on side of road. It immediately ran into brush and stopped 15' away from car and remained 20 seconds.