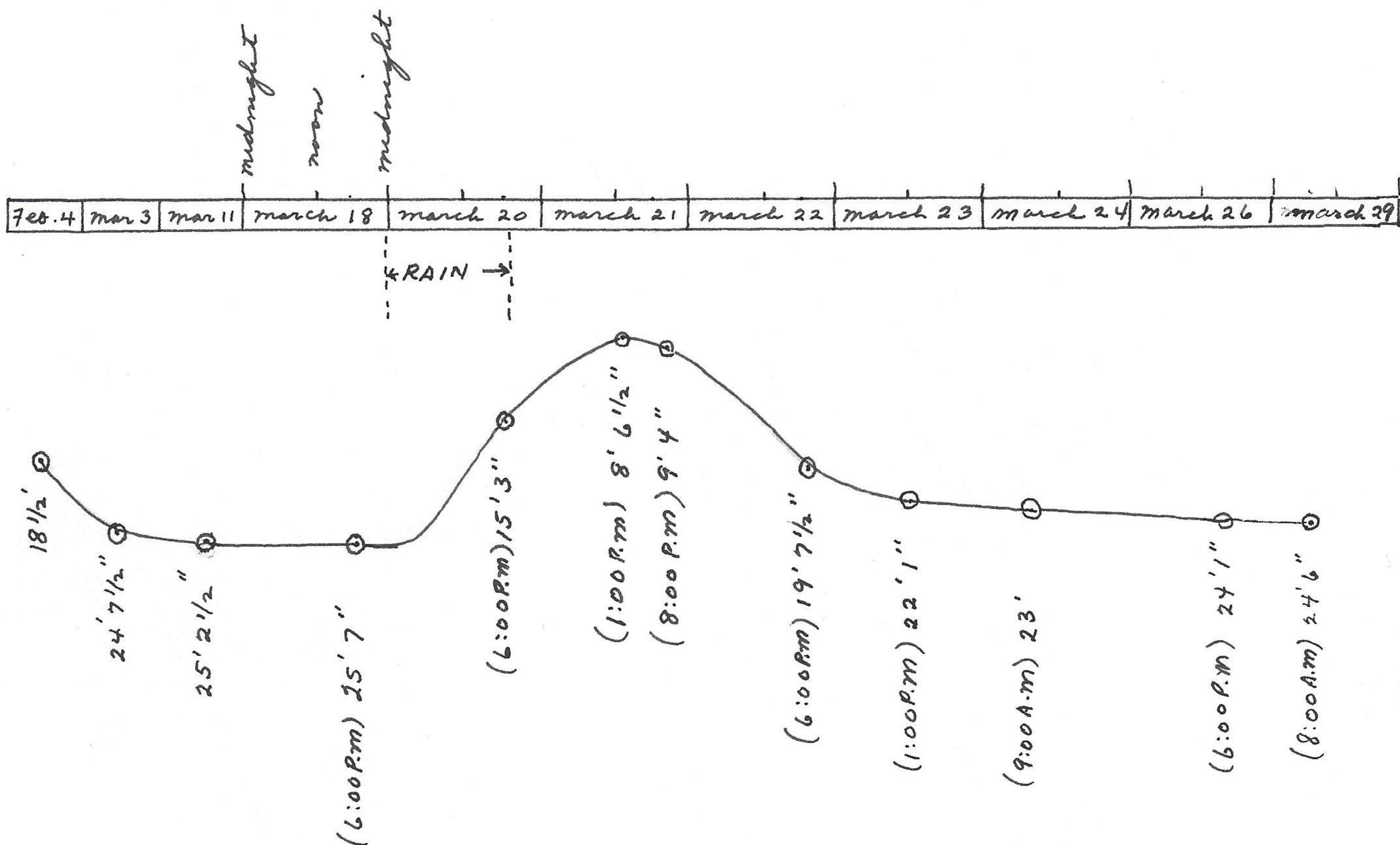


The fluctuation of the Wakarusa River is plotted against the few records made this spring. There is a gradual lowering of water in creek after the first major spring thaw when ice and debris moves out of the creek. The first solid rain produced an increase to near flood and then subsided. Crest followed about 18 hours after rain had



stopped. The river at 22' (below bridge) is judged to be a good height for navigation in canoe. At 25' there are two main shallow spots. As late as March 18 there were isolated spots of ice on bank both water level & high flood ice. These ice spots, however, are rare at this time of year.

[see 2 page beyond for March 20, 21, 22, 23, 1962]

Nashell Bottoms, 4 1/2 mi. S Lawrence, Douglas Co., Kansas

March 23, 1962

This afternoon son James and I collected the following birds from the river and slope adjacent to the river. (* mounted)

- | | | | |
|------------|---------------|---|---|
| * 620323-1 | American Coot | ♀ | length 370, weight 403gms. |
| 620323-2 | Tree Sparrow | ♀ | t. length 158, wt 18gms, ovary 4 1/2 mm |
| 620323-3 | " " | ♀ | " " 157, " 17gms, ovary 3 mm length |
| * 620323-4 | " " | ♀ | " " 152, " 19gms ovary 4 x 2 mm |