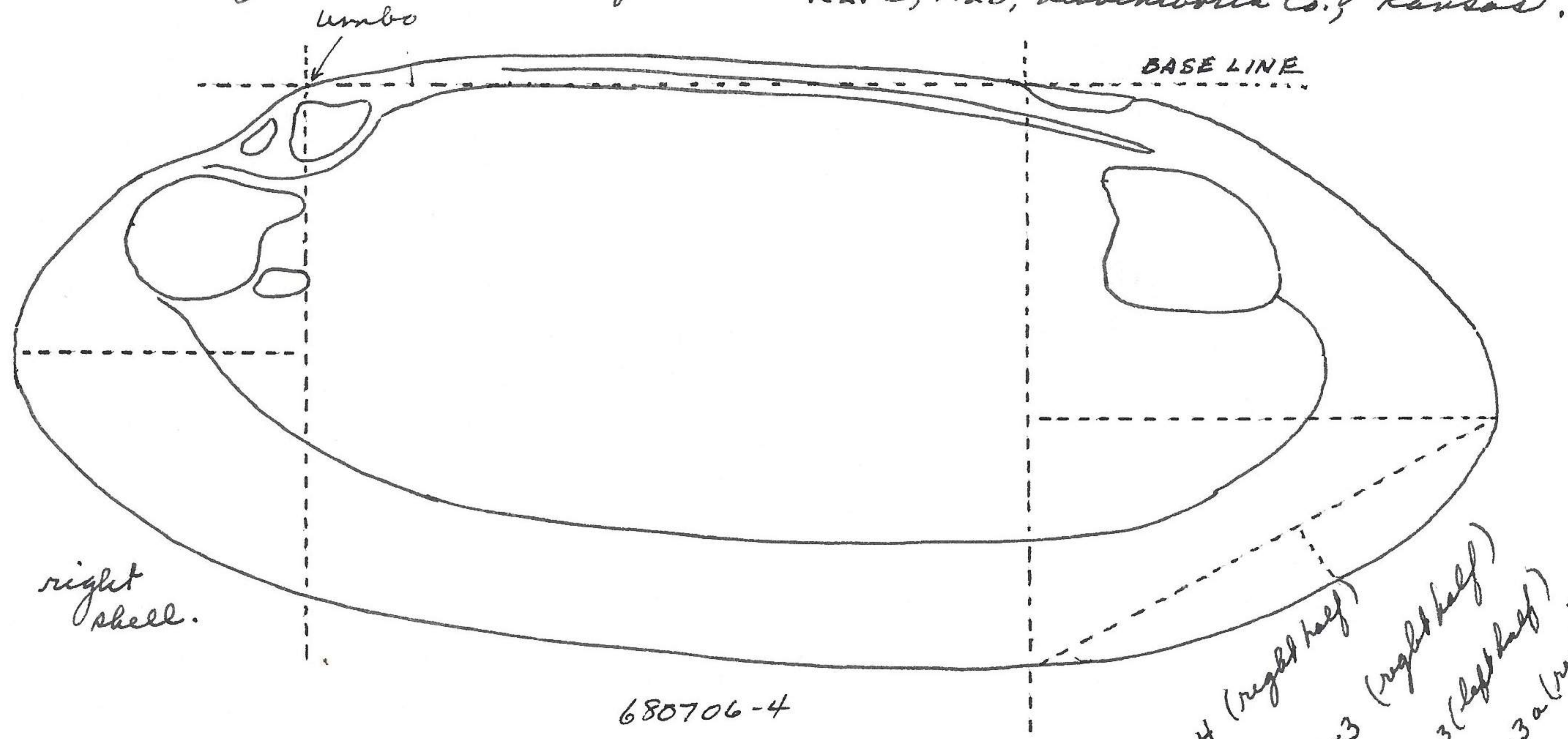


Dominant insect along river, creek and railroad grade is the dragon fly. At a point where railroad leaves cliffs east of Eudora noted a dead *Marmota monax bunkeri*, probably killed by a train.

Recorded the measurements of umorid no 680706-4, *Ligumia recta latissima* (Rafinesque). New record for the Kaw River. Also in size. Exact locality 1/2 mi. S and 1/2 mi W of NE corner of sec 27, R21 E, T12 S, Leavenworth Co., Kansas.



measurements of above shell and the *Quadrula* shell

	138 gms	75 gms	75 gms
weight	138 gms	75 gms	75 gms
length posterior ridge (outside curve)	153	102	103
umbo - posterior ridge (internal, diagonal)	144	83	83
width	21.3	23	23
height	69	75	75
length	171	98	98
center greatest height	90	46	47
height umbo	56	65	64
umbo from anterior edge	33	28	29
height from notch	66	62	62
notch to posterior edge	57	33	32
umbo - anterior wing	18	12	11.5
umbo - posterior wing	92	12.7	12.7
umbo - notch	82	39	39
lateral teeth - umbo	96	58	58
height lateral teeth (at notch)	7	5	5.5
ventral edge pseudocardinal - umbo	9	16	16
bridge below umbo	8	8	11
height umbo	2.0	3.8	4
length anterior adductor muscle	16.5	15	14.3
post basal swelling (from a line from end posterior ridge to point below notch)	8.8	0	-1
ventral angle	153°	182°	183°
posterior angle	60°	86°	84°