Returned to Topeka where we remained overnite with mel & curly.

8 4/10 mi. W and 3 3/10 mi. S Topeka, 1000 ft., Shawnee Co. Kansas

5 Sept. 1950

Inspected trap line set yesterday afternoon and collected the following.

500905-1	microtus ochrogaster ♂	142-35-19-12-44 gms	(testes 11 m.m.)
500905-2	microtus ochrogaster ♂	144-39-20-12-51 gms.	(testes 16 m.m.)
500905-3	microtus ochrogaster ♂	160-44-19-11-50 gms	(testes 8 m.m.)
500905-4	microtus ochrogaster ♂	150-35-20-12-44 gms	(testis 9 m.m.)
500905-5	microtus ochrogaster ♂	158-40-21-12-60 gms	(testis 15 m.m.
500905-6	microtus ochrogaster ♂	151-38-20-11-46 gms	(testis 11 m.m.)
500905-7	microtus ochrogaster ♀	147-34-20-12-53 gms	(3 x 0 emb. 12 m.m.)
500905-8	microtus ochrogaster ♂	149-37-18-11-40 gms	(testis 12 m.m.)
500905-9	microtus ochrogaster ♀	148-35-18-12-45 gms	(no emb.)
500905-10	microtus ochrogaster ♀	154-39-20-12-50 gms	(3 x 2 emb. 6 m.m.)

The greater number of mammals taken along fence row. The two Blarina were taken also from this set. Placed mammals in refrigeration until I returned to Topeka where they were deep frozen by one of the locker companys. After lunch mrs Cuthertson and I drove out to the flint hills area to check for microtus ochrogaster activity and to establish another trapping line along the proposed east west transect. (see map of 4 Sept., 1950). An examination of the eastern part of the flint hills, as indicated on the map, did not produce evidence of microtus ochrogaster. It was not until we reached Eskridge that we found their runways. It is assumed that M. ochrogaster inhabits the fields and prairie land from east to west to a point at Eskridge beyond this point it stops abruptly as the flint hill take over the country. The main difference between the prairie-savanna east of Eskridge and the praire west of Eskridge is in both soil and vegetation. The soil is extremely shallow, hard, and generally covered with small pebbles whereas the soil to the east of Eskridge is moderately deep, showing the influence of the glacial tillite. The vegetation west of Eskridge lacks the matted grasses which generally grow between the individual