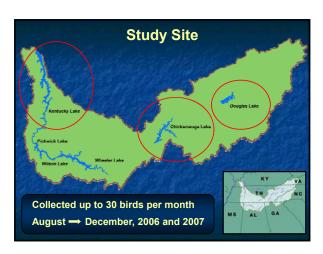
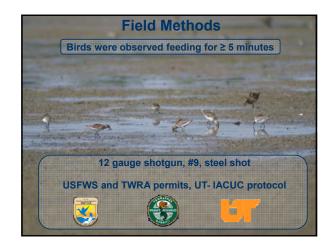


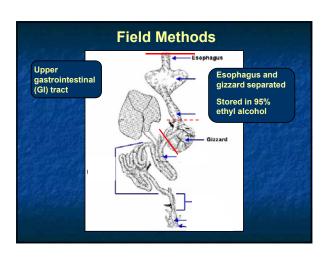


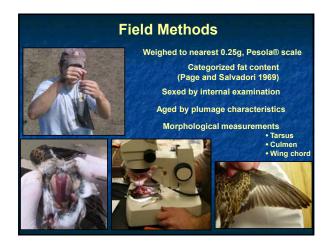
1) Determine diet composition, and 2) Determine food item preference of shorebirds in the Tennessee River Valley. Least sandpiper (Calidris minutilla) 1) Most widely distributed shorebird in NA 2) Most abundant shorebird in TRV 3) Occur throughout the sampling period

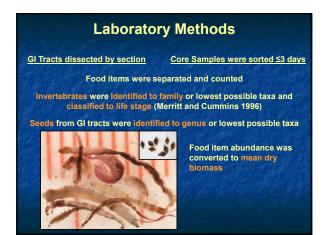






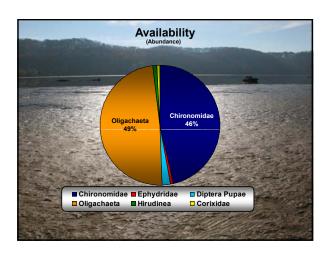


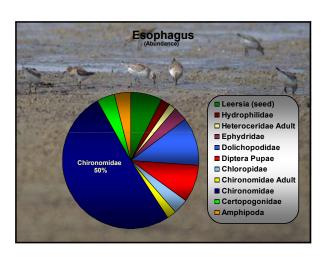


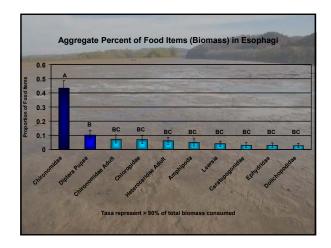


Statistical Analysis Mean Biomass of Invertebrates → Among Taxa Test: One-way ANOVA Food Preference → Invertebrates in Core vs. Consumed Test: Paired T-test Both Tests Performed at α = 0.05, using SAS® System









| | Foo | od Item Prei (Biomass | | | | |
|---------------|---------------------|--------------------------|-----------|--------|-------|--------|
| Taxa | | Consumed | Available | D | SE | P |
| Invertebrates | Amphipoda | 0.050 | 0.004 | 0.046 | 0.023 | 0.046 |
| | Dolichopodidae | 0.028 | 0 | 0.028 | 0.015 | 0.072 |
| | Ephydridae | 0.029 | 0.005 | 0.024 | 0.015 | 0.108 |
| | Ceratopogonidae | 0.030 | 0.002 | 0.028 | 0.017 | 0.107 |
| | Heteroceridae Adult | 0.062 | 0.001 | 0.061 | 0.026 | 0.020 |
| | Chloropidae | 0.070 | 0.001 | 0.069 | 0.027 | 0.012 |
| | Chironomidae Adult | 0.074 | 0.009 | 0.065 | 0.027 | 0.017 |
| | Diptera Pupae | 0.103 | 0.005 | 0.099 | 0.032 | 0.003 |
| | Chironomidae | 0.434 | 0.671 | -0.236 | 0.058 | <0.001 |
| Seeds | Leersia | 0.040 | 0 | 0.040 | 0.020 | 0.052 |

| A 400 | Discussion |
|--|--|
| Of 21 taxa, 13 taxa s Exceptions: 0 | items according to their availability selected in proportion to availability days and Smith (1998), Andrei et al. (in press) Digachaetes and Chironomids - 43% (Avoided) (Not Avoided) |
| Chironomidae Adult Diptera Pupae Heteroceridae Amphipoda Opportunistic fora | THE RESIDENCE OF THE PROPERTY OF THE PARTY O |





| Implications | | |
|--|--|--|
| Tennessee River Valley reservoirs provide d resources for least sandpipers from August Least sandpipers have a high dietary overla | - December | |
| (Baldassarre and Fischer 1984) | WESA - 71%, STSA - 72% Chironomidae: 51 – 85% | |
| Several shorebird species likely depend on during drawdown of Tennessee River Valley | | |
| Important for managers to manage for inver | rtebrate diversity | |



