

GRASSHOPPERS, CRICKETS, AND COCKROACHES
(Orthoptera)

Usually large insects; hind legs often (grasshoppers and crickets) enlarged; FW narrow, HW broad and at rest folded fanwise.

LONG-HORNED GRASSHOPPERS, Family Tettigoniidae p. 80
Antennae long and hairlike; tarsi 4-segmented; ovipositor sword-shaped.

BUSH KATYDIDS, Subfamily Phaneropterinae p. 80
Usually green and over 1 in.; FW flat, shorter than HW; prosternal spines absent; vertex rounded.

Scudderia curvicauda (De Geer), ♂; e. N. America.
MEADOW GRASSHOPPERS, Subfamily Conocephalinae p. 82
Slender, greenish, seldom over 1 in.; prosternum usually with a pair of small spines; vertex short.

Conocephalus brevipennis (Scudder), ♂; e. N. America.

SHORT-HORNED GRASSHOPPERS, Family Acrididae p. 78
Antennae relatively short; tarsi 3-segmented; pronotum not prolonged backward over abdomen; wings usually well developed.

SPUR-THROATED GRASSHOPPERS, p. 78
Subfamily Cyrtacanthacridinae
A spine or tubercle on prosternum.

Schistocerca americana (Drury); e. N. America.
BAND-WINGED GRASSHOPPERS, p. 78
Subfamily Oedipodinae

HW usually brightly colored; a median longitudinal keel on pronotum; hind margin of pronotum triangularly extended backward; face vertical or nearly so.

Dissosteira pictipennis Brunner; Calif. to s. Oregon.

CRICKETS, Family Gryllidae p. 82
Body somewhat flattened; antennae long and hairlike; tarsi 3-segmented; ovipositor usually long and cylindrical.

BUSH CRICKETS, Subfamily Trigonidiinae p. 84
2nd tarsal segment heart-shaped and flattened dorsoventrally; no teeth between tibial spines; ovipositor sword-shaped.

Phyllopalpus pulchellus (Uhler); N.Y. to Illinois and Florida.

COCKROACHES, Family Blattidae p. 86
Body flattened and oval, head concealed from above by pronotum; antennae long, hairlike; tarsi 5-segmented.

ORIENTAL COCKROACH, *Blatta orientalis* Linn.; N. America (introduced).

