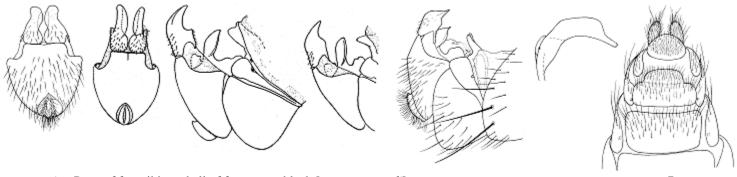
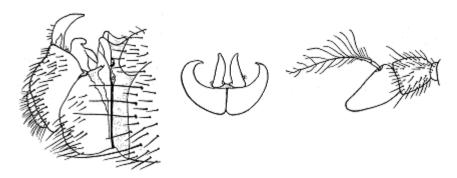
KEY TO THE NEARCTIC SPECIES OF *TETANOCERA*Modified 11/2010 by William L. Murphy from Fisher & Orth (1983), Foote & Keiper (2004), and Steyskal (1959)

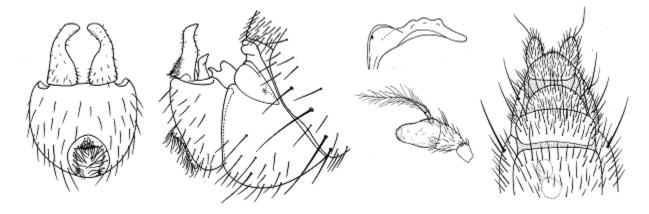
1.	Posterior surface of middle femur with 2-3 preapical bristles (weak in <i>annae</i>); wing without streaks or spots in cells; stump veins absent; prosternum bare or sparsely setose; scutellum convex on dorsum; dark orbitoantennal spot absent [robusta, annae]
	Posterior surface of middle femur with 1 or 0 preapical bristles; wings sometimes with dark markings in cells and often with stump veins on R_{4+5} . Prosternum bare
2.	Prosternum sparsely setose; posterior femur without posterodorsal apical bristle; epandrium asymmetrical, with papilla on dextral side [AK s to NM e to ND, WI, MI]
	Prosternum bare; posterior femur with posterodorsal preapical bristle; epandrium symmetrical, without papilla [BC, ON, WI, MI, IN, OH, NY, NH, CT]
3.	Posterior surface of middle femur with 1 preapical bristle; crossvein dm-cu strongly S-curved, scutellum somewhat flattened dorsally with slight anterior ridge [arnaudi, latifibula, loewi, mesopora, obtusifibula, plumosa, spreta, vicina]
	Posterior surface of middle femur with small hairs only; crossvein dm-cu variable [18 species]11
4.	Parafacial area with hairs well above halfway between lower margin of eye and border of antennal socket; blackish orbitoantennal spot present; aristal hairs dense and black; abdomen with middorsal brown stripe; wings with distinct costal browning [plumosa, vicina]
	Parafacial area with hairs extending less than halfway from lower margin of eye to border of antennal socket [arnaudi, latifibula, loewi, mesopora, obtusifibula, spreta]
5.	R ₄₊₅ usually with stump veins; surstyli tapered and slightly hooked apically [BC e to NF s to NC w to CA]
(T. vicina Macquart

R₄₊₅ usually without stump veins; surstyli rounded and not hooked apically [Nearctic. Transcontinental AK e to NS, s to NC, w to CA]
 T. plumosa Loew

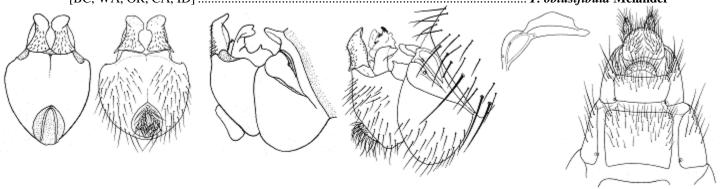


- Fore tibia wholly tawny; abdomen dorsally concolorous [latifibula, loewi, mesopora, obtusifibula]......8



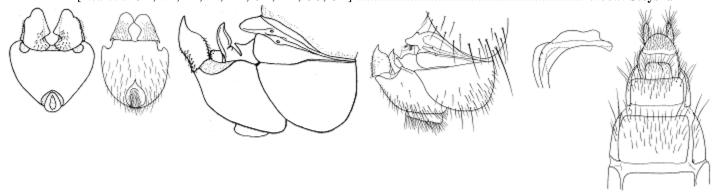


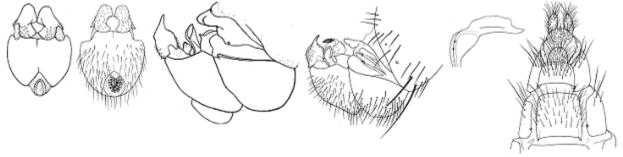
- 8. Aristal hairs especially dense and black; orbitoantennal spot usually large and black [obtusifibula, loewi].......9



Interfrontal stripe teardrop-shaped, narrower near ocelli. Wings with strong costal browning; bristles on posteroventral surface of fore femur slightly more than half as long as greatest diameter of femur, much shorter in basal third of femur; surstyli curved to an abrupt point, basal margin straight. Female: 8th sternite tubular [Nearctic. ON, WI, MI, IN, KY, OH, NY, CO, CA]

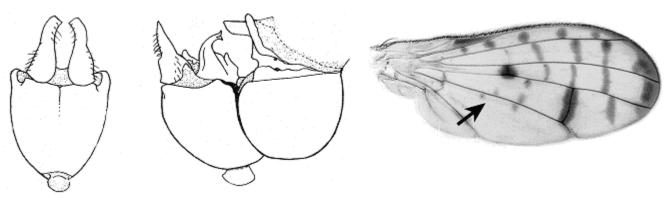
T. loewi Steyskal



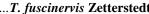


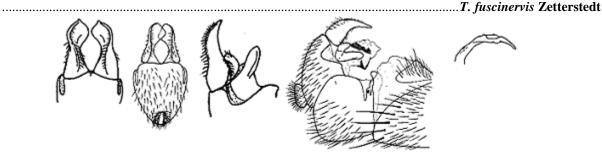


11. Hind femur with posterodorsal bristle opposite or nearly opposite apical anterodorsal bristle; aristal plumosity long but sparse. NOTE plebeja sometimes will fit this description; see rubric 20 [montana, rotundicornis].....12 12. Crossvein dm-cu S-curved; R₄₊₅ without stump veins; arista with long 2nd segment [Holarctic. AK s to BC and Crossvein dm-cu nearly straight; R₄₊₅ often with stump veins [Nearctic. Transcontinental s to UT, TN, NC] Wings without pattern except sometimes streak in 1st posterior cell and cloud in 2nd posterior cell (see 14. No spots along M_{1+2} ; surstyli narrow, sickle-shaped in lateral view. Female: postabdomen like plumosa, with Spots along both sides of M₁₊₂; surstyli triangular in lateral view [Nearctic. NF to BC, s to CT, IN, IL,

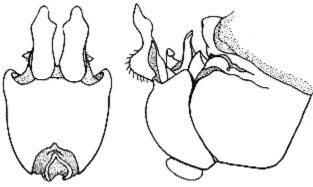


15. Interfrontal stripe not sharply demarcated, forming broad triangular dully shining area anterior to ocelli; costal margin not browned; normally without stump veins [Holarctic. AK to NF, s to CT, OH, IN, AZ].....

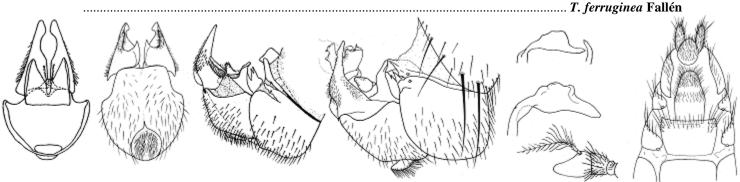




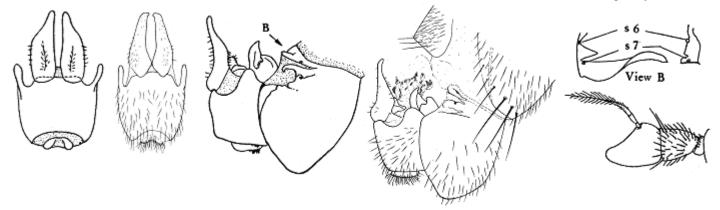
- Interfrontal stripe more or less parallel-sided; if indistinct not consisting of triangular dully shining area16
- 16. Anterior margin of front shining, slightly inflated, connecting shining interfrontal and parafrontal stripes to form



- 17. Interfrontal stripe narrow, ending well before anterior margin of frons, or indistinct; wings concolorous, without stump veins, crossvein dm-cu straight or slightly arcuate; dorsal protandrial profile rather squarish
- Interfrontal stripe robust, extending to or nearly to anterior margin of frons; other characters variable20

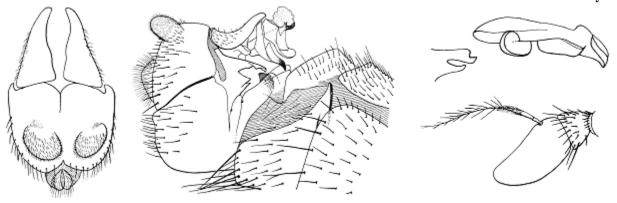


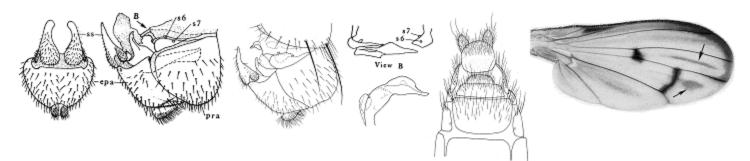
- Hairs of anterior front indistinct, shorter than diameter of an ocellus; aristal hairs short, 2nd aristal segment long; surstyli without laminae.



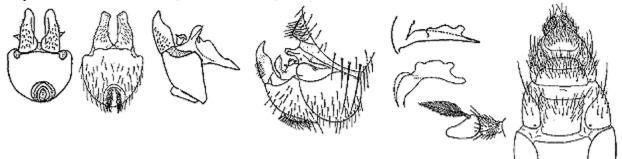
Epandrium bearing conspicuous pair of mammiform protuberances halfway between cerci and base of surstyli;
 sternite 6 with flat lamina narrowly separated from a deeply cupped lobe [Churchill MB].....



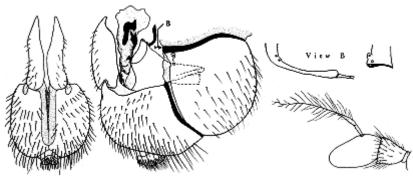




NOTE: From this point on, determination is confirmed only by examination of the male postabdomen.

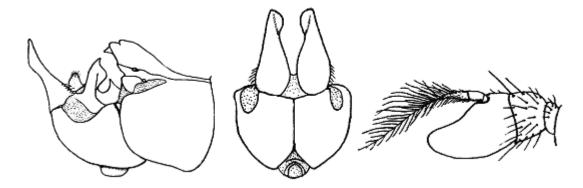


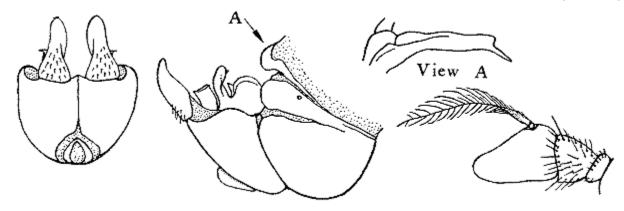
- Aristal hairs sparser, shorter, or paler; if rather dense and black, 2nd antennal segment less than half the length of 3rd segment, which seldom is concave in dorsal profile.
 22



Second segment of arista less than 3x as long as wide; epandrium completely closed between surstyli and anus
 23

- 23. Orbitoantennal spot usually present [sometimes absent in *spirifera*]; aristal hairs rather short; wings with costal browning, without stump veins; thoracic dorsum without strong brown stripes [*ornatifrons, spirifera*]......24

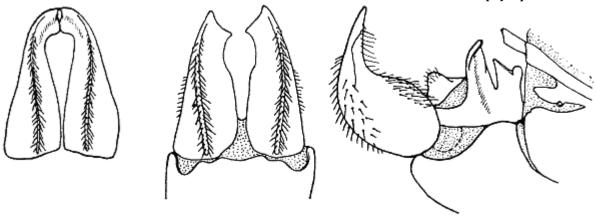




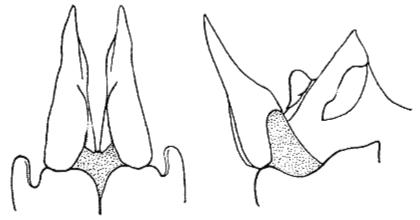


Aristal plumosity moderately long; wings with costal browning and usually with at least 1stump vein on R₄₊₅
 26

26. Second antennal segment 1.5x as high as long; costal browning only distad of crossvein dm-cu; usually 1 stump vein on posterior side of apical section of M_{1+2} , sometimes also 1 stump vein on penultimate section; surstyli large, strongly curved, with setulose posterior ridge [AK, BC, AB, ON, MI, VT, NH, NS, CO, NM]......



- Second antennal segment as long as high, at least half as long as 3rd segment; usually at least 1 stump vein on penultimate section of M₁₊₂, sometimes also on apical section; costal browning extending proximad to tip of auxiliary vein [melanostigma, oxia]27
- 27. Stigma light brown; dorsum of thorax with faint stripes (may be lacking); surstyli broad basally tapering to acute point, mediobasal carina present; ventral margin of epandrium with arcuate emargination. Female: postabdomen like plumosa/vicina [Nearctic. BC e to NF; CO, CT, MI, MN, MT, NY, OH, WY]



Stigma dark brown; dorsum of thorax with distinct brown stripes or none; surstyli in ventral view rounded at tip, in lateral view forming acute, slightly curved triangle; mediobasal carina absent; ventral margin of epandrium with angular emargination [Nearctic. SK to NF, s to CT, IN, IL, CO]....... T. melanostigma Steyskal

