**Heliaula rufa**, the rufous grasshopper, is found in southeast Wyoming. It prefers hilltops and areas with coarse soil in the shortgrass prairie. Its reddish-brown color blends very well with patches of bare ground. Eggs overwinter in the soil. Adults were present in August. This species is reported to feed on grasses and may prefer grama grasses. It is uncommon in Wyoming and it would damage rangeland forage only in conjunction with other species.