

## Butterfly Big Years Compared: Tenney ('15) and Pyle ('08)

### C. Tenney

<u>Week #</u>	<u>Total spp. Seen + New spp. for Week (n = BP's #, red= spp. uncertified by BP)</u>
1: <i>Vanessa</i>	7 (1) <i>Pieris marginalis</i> , <i>Colias eurytheme</i> , <i>Zerene eurydice</i> , <i>Celastrina echo</i> , <i>Polygonia satyrus</i> , <i>atalanta</i> ; <i>Danaus plexippus</i>
2:	8 (3) <i>Junonia coenia</i>
3:	33 (6) <i>Pontia protodice</i> , <i>Zerene cesonia</i> , <i>Phoebis sennae</i> , <i>Phoebis agarithe</i> , <i>Kricogonia lyside</i> , <i>Eurema mexicana</i> , <i>Pyrisitia proterpia</i> , <i>Pyrisitia lisa</i> , <i>Calycopis isobeon</i> , <i>Strymon istapa</i> , <i>Echinargus isola</i> , <i>Calephelis nemesis</i> , <i>Libytheana carinenta</i> , <i>Agraulis vanillae</i> , <i>Phyciodes tharos</i> , <i>Phyciodes phaon</i> , <i>Vanessa virginiensis</i> , <i>Myscelia ethusa</i> , <i>Danaus gilippus</i> , <i>Pyrgus albescens</i> , <i>Heliopetes laviana</i> , <i>Cymaenes trebius</i> , <i>Lerema accius</i> , <i>Hylephila phyleus</i> , <i>Lerodea eufala</i>
4:	51 (6) <i>Abaeis nicippe</i> , <i>Nathalis iole</i> , <i>Atlides halesus</i> , <i>Chlorostrymon simaethis</i> , <i>Strymon melinus</i> , <i>Leptotes marina</i> , <i>Hemiargus ceraunus</i> , <i>Lasaia sula</i> , <i>Phyciodes graphica</i> , <i>Vanessa cardui</i> , <i>Anartia jatrophae</i> , <i>Mestra anymone</i> , <i>Asterocampa leilia</i> , <i>Hermeuptychia hermybius</i> , <i>Urbanus procne</i> , <i>Pyrgus oileus</i> , <i>Nastra julia</i> , <i>Copaeodes minima</i>
5:	61/54 (8) <i>Battus philenor</i> , <i>Papilio polyxenes</i> , <i>Brephidium exile</i> , <i>Melanis paxe</i> , <i>Texola elada</i> , <i>Anthanassa texana</i> , <i>Systasea pulverulenta</i> , <i>Chiomara georgina</i> , <i>Erynnis funeralis</i> , <i>Atalopedes campestris</i> ,
6:	71/65 (8) <i>Ascia monuste</i> , <i>Dryas iulia</i> , <i>Heliconius charithonia</i> , <i>Chlosyne lacinia</i> , <i>Anaea aidea</i> , <i>Danaus eresimus</i> , <i>Eantis tamenund</i> , <i>Heliopetes macaira</i> , <i>Pholisora catullus</i> , <i>Wallengrenia otho</i>
7:	75/68 (8) <i>Ministrymon clytie</i> , <i>Leptotes cassius</i> , <i>Emesis emesia</i> , <i>Polites vibex</i>
8:	91/81 (10) (3) <i>Anthocharis sara</i> , <i>Eurema boisduvaliana</i> , <i>Pyrisitia nise</i> , <i>Strymon albata</i> , <i>Cupido amyntula</i> , <i>Philotes sonorensis</i> , <i>Chlosyne gabbii</i> , <i>Phyciodes mylitta</i> , <i>Adelpha bredowii</i> , <i>Cyllopsis gemma</i> , <i>Coenonympha tullia californica</i> , <i>Astrartes fuligator</i> , <i>Staphylus mazans</i> , <i>Erynnis propertius</i> , <i>Erynnis tristis</i> , <i>Poanes melane</i>
9: <i>Callophrys</i>	99/88 (14) <i>Papilio rutulus</i> , <i>Papilio eurymedon</i> , <i>Pieris rapae</i> , <i>Callophrys dumetorum</i> (=viridis), <i>augustinus</i> , <i>Plebejus acmon</i> , <i>Vanessa annabella</i> , <i>Pyrgus communis</i>
10:	101/88 (26) <i>Glaucopsyche lygdamus</i> , <i>Euphydryas chalcedona</i>
11:	116/102 (57) (5) <i>Eurytides marcellus</i> , <i>Papilio crespontes</i> , <i>Papilio glaucus</i> , <i>Papilio palamedes</i> , <i>Eurema दौरa</i> , <i>Calycopis cecrops</i> , <i>Zizula cyna</i> , <i>Polygonia interrogationis</i> , <i>Hermeuptychia sosybius</i> , <i>Timochares ruptifasciata</i> , <i>Erynnis juvenalis</i> , <i>Erynnis horatius</i> , <i>Celotes nessus</i> , <i>Amblyscirtes nysa</i> , <i>Amblyscirtes celia</i>
12:	136/123 (100) <i>Battus polydamas</i> , <i>Phoebis philea</i> , <i>Pyrisitia dina</i> , <i>Electrostrymon angelia</i> , <i>Calephelis virginiensis</i> , <i>Junonia genoveva</i> , <i>Marpesia petreus</i> , <i>Neonympha areolatus</i> , <i>Phocides pigmalion</i> , <i>Epargyreus clarus</i> , <i>Urbanus dorantes</i> , <i>Thorybes pylades</i> , <i>Cymaenes tripunctus</i> , <i>Polites baracoa</i> , <i>Anatrytone logan</i> , <i>Euphyes pilatka</i> , <i>Asbolis capucinus</i> , <i>Oligoria maculata</i> , <i>Panoquina panoquin</i> , <i>Panoquina panoquinoides</i> ,
13:	163/149 (107) (13) <i>Papilio multicaudata</i> , <i>Euchloe lotta</i> , <i>Anthocharis cethura pima</i> , <i>Callophrys gryneus</i> , <i>Calephelis arizonensis</i> , <i>Chlosyne cyneas</i> , <i>Chlosyne fulvia</i> , <i>Chlosyne acastus</i> , <i>Dymasia dymas</i> , <i>Nymphalis antiopa</i> , <i>Junonia evarete</i> , <i>Limenitis arthemis astyanax</i> , <i>Myscelia cyananthe</i> , <i>Zestusa</i>

*dorus*, *Achalarus casica*, *Cogia hippalus*, *Staphylus ceos*, *Systasea zampa*, *Erynnis brizo*, *Pyrgus philetas*, *Heliopyrgus domicella*, *Copaeodes aurantiaca*, *Hesperia pahaska*, ***Polites carus***, *Atrytonopsis pittacus*, *Atrytonopsis cestus*, *Atrytonopsis edwardsi*

- 14: 170/159 (118) (15) *Callophrys spinetorum*, *Plebejus icarioides*, *Limenitis lorquini*, *Pyrgus ruralis*, *Heliopetes ericetorum*, *Hesperia columbia*, *Ochlodes agricola*
- 15: 185/178 (124) (16) *Papilio troilus*, *Strymon martialis*, *Brephidium pseudofea*, ***Anthanassa frisia***, *Limenitis archippus*, *Eunica tatila*, *Polygonus leo*, *Thorybes confusus*, *Ephyriades brunnea*, *Erynnis zarucco*, *Ancyloxypha numitor*, *Polites themistocles*, *Euphyes vestris*, *Atrytonopsis loammi*, *Panoquina ocola*
- 16: 209/202 (149) (21) *Pieris virginiensis*, *Anthocharis midea*, *Colias philodice*, *Fenisea tarquinius*, *Callophrys henrici*, *Callophrys niphon*, ***Parrhasius m-album***, *Cupido comyntas*, ***Celastrina ladon***, *Polygonia comma*, *Anaea andria*, ***Autochton cellus***, *Erynnis icelus*, ***Erynnis martialis***, *Erynnis baptisiae*, *Pyrgus centaureae*, *Hesperia metea*, *Poanes zabulon*, ***Amblyscirtes hegon***, *Amblyscirtes aesculapius*, *Amblyscirtes vialis*, *Megathymus yuccae*
- 17: 219/213 (160) (24) *Pontia sisymbrii*, *Anthocharis thoosa*, *Callophrys mcfarlandi*, *Apodemia mormo*, *Apodemia mejicanus*, *Polygonia progne*, *Adelpha eulalia*, *Erynnis telemachus*, ***Pholisora mejicana***, ***Amblyscirtes aenus***
- 18: 236/229 (172) (28) ***Satyrium polingi***, *Ministrymon leda*, *Apodemia palmerii*, ***Apodemia chisosensis***, *Euptoieta claudia*, *Chlosyne theona*, *Asterocampa celtis*, *Cyllopsis pertepida*, *Megisto rubricata*, ***Codatractus arizonensis***, ***Autochton cincta***, *Erynnis meridianus*, ***Amblyscirtes oslari***, ***Amblyscirtes texanae***, ***Amblyscirtes nereus***, *Lerodea arabus*
- 19: 262/252 (174) (32) *Pontia beckerii*, ***Euchloe hyantis***, *Anthocharis lanceolata*, *Lycaena xanthoides*, *Satyrium californica*, *Satyrium sylvinus*, *Satyrium saepium*, *Callophrys dumetorum*, *Callophrys sheridanii*, *lemberti*, *Euphilotes bernardino*, ***Euphilotes baueri***, *Plebejus melissa*, ***Plebejus emigdionis***, *Plebejus lupini*, *Calephelis rawsoni*, *Chlosyne leanira*, *Chlosyne palla*, *Phyciodes pulchella*, *Asterocampa clyton*, *Cyllopsis pyracmon*, *Erynnis persius*, *Hesperopsis libya*, ***Hesperopsis alpheus***, ***Pseudocopaeodes eunus***, *Hesperia juba*, *Ochlodes yuma*
- 20: 273/262 (174) (33) *Lycaena arota*, *Lycaena gorgon*, *Satyrium auretteorum*, *Satyrium tetra*, *Callophrys mossii*, *Callophrys polios*, *Callophrys irus*, *Callophrys hesseli*, ***Celastrina idella***, *Speyeria callippe*, *Megisto cymela*
- 21: 279/268 (177) (36) ***Satyrium ilavia***, *Emesis ares*, *Chlosyne californica*, ***Cogia caicus***, *Erynnis afranius*, *Atrytonopsis vierecki*
- 22: 284/272 (197) (38) *Papilio zelicaon*, *Euphilotes enoptes smithi*, *Speyeria coronis*, ***Polygonia oreas***, *Erynnis pacuvius*
- 23: 301/290 (214) (41) *Satyrium titus*, *Satyrium calanus*, *Celastrina neglecta*, ***Celastrina neglectamajor***, *Speyeria diana*, *Speyeria cybele*, *Speyeris aphrodite*, *Enodia anthedon*, *Satyrodes appalachia*, *Cercyonis pegala*, *Cercyonis sthenele*, *Achalarus lyciades*, *Polites origenes*, *Pompeius verna*, ***Poanes yehl***, ***Poanes viator***, *Euphyes dion*
- 24: 329/316 (229) (53) ***Parnassius eversmanni***, *Papilio machaon*, *Papilio canadensis*, *Pieris angelika*, *Colias gigantea*, *Colias palaeno*, *Colias tyche*, ***Speyeria adiate***, ***Boloria alaskensis***, *Boloria improba*, ***Boloria polaris***, *Boloria freija*, *Boloria chariclea*, ***Neonympha mitchellii***, *Erebia rossii*, *Erebia disa*, ***Erebia mancinus***, ***Erebia mackinleyensis***, *Erebia fasciata*, *Erebia discoidalis*, ***Erebia youngi***, *Oeneis bore*, ***Oeneis jutta***, ***Oeneis alpina***, *Oeneis melissa*, ***Oeneis polixenes***, *Carterocephalus palaemon*, ***Hesperia comma***
- 25: 349/336 (239) (57) *Euchloe creusa*, *Colias canadensis*, ***Colias nastes***, *Lycaena cupreus*, *Lycaena helloides*, *Callophrys eryphon*, *Plebejus idas*, *Plebejus saepiolus*, ***Plebejus optilete***, *Euphilotes battoides*, *Boloria eunomia*, *Boloria selene*, *Boloria epithore*, *Chlosyne hoffmanni*, *Polygonia faunus*, *Aglais milberti*, ***Erebia lafontainei***, *Erebia epipsodea*, ***Oeneis philipi***, *Polites sonora*
- 26: 383/370 (252) (58) ***Parnassius clodius***, ***Anthocharis stella?***, *Colias alexandra*, *Lycaena editha*, *Lycaena rubidus*, *Satyrium behrii*, *Satyrium semiluna*, *Satyrium fuliginosa*, ***Callophrys nelson?i***, *Euphilotes glaucon*, *Philotiella leona*, *Plebejus anna*, *Plebejus shasta*, *Plebejus podarce*, *Speyeria egleis*, *Speyeria hesperis*, *Speyeria hydaspe*, ***Boloria montinus?***, ***Chlosyne euphydryas editha***, *Polygonia gracilis*, *Nymphalis californica*, *Limenitis oetus*, *Erebia magdalena*, *Oeneis nevadensis*, *Thorybes thymelicus lineola*, *Hesperia colorado*, *Polites sabuleti*
- zerene*, *Speyeria whitneyi*, *Phyciodes pallida*, *weidemeyerii*, *Cercyonis mexicana*, *Piruna pirus*, *Oarisma garita*,

- 27: 406/395 (268) (62) *Parnassius smintheus*, *Phaeostrymon alcestis*, *Callophrys affinis*, *Euphilotes ancilla*, *Glaucopsyche piasus*, *Plebejus glandon*, *Speyeria mormonia*, *Chlosyne gorgone*, *Chlosyne nycteis*, *Phyciodes cocyta*, *Euphydryas anicia*, *Oeneis chryxus*, *Oeneis uhleri*, *Pyrgus scriptura*, *Nastra lherminier*, *Hesperia uncas*, *Hesperia ottoe*, *Hesperia viridis*, *Hesperia nevada*, *Polites draco*, *Ochlodes sylvanoides*, *Paratrytone snowi*, *Amblyscirtes eos*
- 28: 413/402 (287) (62) *Lycaena phlaeas*, *Satyrium edwardsii*, *Speyeria idalia*, *Satyrodes eurydice*, *Staphylus hayhurstii*, *Poanes massasoit*, *Euphyes conspicua*
- 29: 427/415 (315) (64) *Colias occidentalis*, *Colias meadii*, *Colias pelidne*, *Colias interior*; *Lycaena dione*, *Lycaena heteronea*, *Lycaena dorcas*, *Lycaena mariposa*, *Satyrium acadica*, *Speyeria atlantis*, *Nymphalis vaualbum*, *Erebia pawloskii*, *Polites peckius*, *Polites mystic*
- 30: 433/420 (326) (68) *Parnassius phoebus behri*, *Colias behrii*, *Euphilotes spaldingi*, *Plebejus cassiope*, *Speyeria carolae*, *Cercyonis meadii*
- 31: 448/435 (333) (78) *Neophasia menapia*, *Euptoieta hegesia*, *Phyciodes picta*, *Paramacera xicaque allyni*, *Apyrothrix araxe*, *Thorybes drusus*, *Piruna polingi*, *Piruna aea*, *Oarisma edwardsii*, *Poanes taxiles*, *Amblyscirtes exoteria*, *Amblyscirtes cassus*, *Amblyscirtes elissa*, *Amblyscirtes phylace*, *Megathymus ursus*
- 32: 460/446 (336) (86) *Appias drusilla*, *Erora quaderna*, *Emesis zela*, *Apodemia nais*, *Microtia elva*, *Chioides albofasciatus*, *Thorybes diversus*, *Erynnis scudderii*, *Ancyloxypha arene*, *Atrytonopsis lunus*, *Amblyscirtes tolteca*, *Amblyscirtes fimbriata*
- 33: 467/452 (342) (87) *Colias scudderii*, *Lycaena ferrisi?*, *Hypaurotis crysalus*, *Arawacus jada*, *Speyeria nokomis*, *Siproeta stelenes*, *Erebia callias*
- 34: 467/452 (350) (87)
- 35: 468/455 (352) (87) *Habrodais grunus*
- 36: 475/462 (354) (89) *Aphrissa statira*, *Eumaeus atala*, *Phoebis nelius?*, *Strymon acis*, *Euphyes arpa*, *Euphyes berryi*, *Nastra neamathla*
- 37: 478/465 (354) (89) *Enodia portlandia*, *Enodia creola*, *Urbanus proteus*
- 38: 483/471 (354) (90) *Euphilotes rita*, *Boloria bellona*, *Gyrocheilus patrobas*, *Adopaeoides prittwitzii*, *Agathymus aryxna*
- 39: 485/473 (355) (92) *Hesperia woodgatei*, *Agathymus neumoegeni*
- 40: 495/483 (372) (93) *Calephelis perditalis*, *Caria ino*, *Chioides zilpa*, *Aguna metophis*, *Achalarus toxeus*, *Cabares potrillo*, *Cogia calchas*, *Hesperopsis graciaelae*, *Quasimellana eulogius*, *Lerodea dysaules*
- 41: 501/488 (388) (94) *Strymon bazochii*, *Anthanassa tulcis*, *Doxocopa laure*, *Pellicia arina*, *Vidius perigenes*, *Nyctelius nyctelius*
- 42: 498\*/493 (417) (95) *Panoquina hecebolus*, *Panoquina lucas*, *Panoquina evansi* (\*Pelham Catalogue-adjusted)
- 43: 503/499 (429) (97) *Papilio anchisiades*, *Neophasia terlooii*, *Phocides polybius*, *Calpodes ethlius*, *Agathymus polingi*
- 44: 509/504 (429) (102) *Papilio ornythion*, *Ganyra josephina*, *Dynamine dyonis*, *Heliopyrgus sublinea*, *Monca crispinus*, *Decinea percossius*
- 45: 520/515 (429) (103) *Anteos maerula*, *Allosmaitia strophius*, *Rekoa marius*, *Strymon rufofusca*, *Electrostrymon sangala* (=hugon), *Apodemia walkeri*, *Adelpha fessonia*, *Biblis hyperia*, *Aguna claxon*, *Astraptes anaphus*, *Spathilepia clonius*,

46: 526/521 (429) (106) *Melete lycimnia*, *Chlorostrymon telea*, *Strymon yojoa*, *Dynamine postverta*, *Doxocopa pavon*, *Perichares philetes*

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## B. Pyle

<u>Week #</u>	<u>Total spp. Seen + New spp. for Week (n = CT's #, red = spp. unseen by CT)</u>
1:	1 (7) <i>Nymphalis californica</i>
2:	3 (8) <i>Danaus plexippus</i> , <i>Vanessa atalanta</i>
3:	6 (33) <i>Pieris marginalis</i> , <i>Polygonia satyrus</i> , <i>Pontia protodice</i>
4:	6 (51)
5:	8 (61) <i>Callophrys augustinus</i> , <i>Pieris rapae</i>
6:	8 (71)
7:	8 (75)
8:	15 (91) <i>Vanessa annabella</i> , <i>Nymphalis antiopa</i> <i>Brephidium exilis</i> , <i>Vanessa cardui</i> , <i>Agraulis vanillae</i> , <i>Phoebis sennae</i> , <i>Zerene cesonia</i>
9:	27 (99) <i>Erynnis tristis</i> , <i>Callophrys henrici</i> , <i>Phyciodes tharos</i> , <i>P. phaon</i> , <i>Eurema lisa</i> , <i>Erynnis horatius</i> , <i>Vanessa virginiensis</i> , <i>Pyrgus albescens</i> , <i>Eurema दौरa</i> , <i>E. nicippe</i> , <i>Callophrys grynea</i> , <i>Junonia geneveva</i>
10:	62 (101) <i>Nathalis iole</i> , <i>Phoebis philea</i> , <i>Leptotes cassius</i> , <i>Papilio crespontes</i> , <i>Anartia jatrophae</i> , <i>Ascia monuste</i> , <i>Hylephila phyleus</i> , <i>Papilio palamedes</i> , <i>Papilio glaucus</i> , <i>Marpesius petreus</i> , <i>Heliconius charitonius</i> , <i>Danaus gillippus</i> , <i>Epargyreus clarus</i> , <i>Oligoria maculata</i> , <i>Wallegrenia otho</i> , <i>Ephyriades brunnea</i> , <i>Phoebis agarithe</i> , <i>Strymon istapa</i> , <i>Hemiargus ceraunus</i> , <i>Junonia coenia</i> , <i>Panoquina ocala</i> , <i>Limenitis archippus</i> , <i>Euphyes pilatka</i> , <i>Polites baracoa</i> , <i>Cymaenes tripunctus</i> , <i>Electrostryon angelia</i> , <i>Dryas iulia</i> , <i>Battus polydamas</i> , <i>Urbanus dorantes</i> , <i>Eurema dina</i> , <i>Atalopedes campestris</i> , <i>Eumaeus atala</i> , <i>Phocides pygmalion</i> , <i>Calpodetes ethlius</i> , <i>Pyrgus oileus</i>
11:	81 (116) <i>Papilio polyxenes</i> , <i>Euptychia sosybius</i> , <i>Calephilus virginiensis</i> , <i>Euphyes arpa</i> , <i>Atrytone logan</i> , <i>Nastra lherminier</i> , <i>Polites vibex</i> , <i>Ancylorhiza numitor</i> , <i>Graphium marcellus</i> , <i>Neonympha areolata</i> , <i>Asbolis capucinus</i> , <i>Calycopis cecrops</i> , <i>Thorybes pylades</i> , <i>Lerema accius</i> , <i>Euptoietia claudia</i> , <i>Erynnis juvenalis</i> , <i>Polites themistocles</i> , <i>Papilio troilus</i> , <i>Strymon martialis</i>
12:	99 (136) <i>Aphrissa statira</i> , <i>Erynnis brizo</i> , <i>Battus philenor</i> , <i>Urbanus proteus</i> , <i>Megisto cymela</i> , <i>Atlides halesus</i> , <i>Anaea andria</i> , <i>Megathymus yuccae</i> , <i>Libythea carinenta</i> , <i>Poanes zabulon</i> , <i>Thorybes confusus</i> , <i>Copaeoides minima</i> , <i>Panoquina panoquin</i> , <i>Poanes aaroni</i> , <i>Strymon melinus</i> , <i>Brephidium pseudofea</i> , <i>Limenitis arthemis</i> , <i>Lethe portlandia</i>
13:	105 (163) (1) <i>Callophrys irus</i> , <i>Amblyscirtes alternata</i> , <i>Cyllopsis gemma</i> , <i>Wallegrenia egeremet</i> , <i>Erynnis zarucco</i> , <i>Euphyes berryi</i>

- 14: 116 (170) (2) *Polygonia interrogationis*, *Satyrrium favonius*, *Megathymus cofaqui*, *Pompeius verna*, *Thorybes bathyllus*, *Euphyes vestris*, *Cupido comyntas*, *Colias eurytheme*, *Anthocharis midea*, *Pieris virginiensis*, *Erynnis baptisiae*
- 15: 122 (185) (2) *Callophrys niphon*, *Achalarus lycaeides*, *Erynnis funeralis*, *Atrytonopsis hianna*, *Pyrgus communis*, *Echinargus isola*
- 16: 147 (209) (5) *Staphyllus hayhurstii*, *Amblyscirtes vialis*, *Amblyscirtes belli*, *Kricogonia lyside*, *Euchloe olympia*, *Chlosyne gorgone*, *Chlosyne nycteis*, *Phycioides vesta*, *Copaeoides aurantiaca*, *Erynnis telemachus*, *Stinga morrisoni*, *Erynnis meridionalis*, *Phyciodes picta*, *Cupido amyntula*, *Leptotes marina*, *Aglais milberti*, *Plebejus acmon*, *Erynnis afranius*, *Papilio rutulus*, *Anthocharis sara*, *Apodemia mormo*, *Erora quaderna*, *Polygonia gracilis*, *Phyciodes mylitta*, *Callophrys macfarlandi*
- 17: 158 (219) (6) *Hesperopsis libya*, *Apodemia palmeri*, *Papilio zelicaon*, *Poanes melane*, *Euphilotes bernderdino*, *Philotes speciosa*, *Euphydryas chalcedona*, *Callophrys viridis*, (=CT's *C. dumetorum*), *Icaricia icarioides*, *Euchloe ausonides*, *Coenonympha tullia*
- 18: 170 (235) (7) *Erynnis propertius*, *Papilio eurymedon*, *Chlosyne palla*, *Limenitis lorquini*, *Adelpha californica*, *Callophrys muiri*, *Euphilotes lupini*, *Ochlodes agricola*, *Euphydryas editha*, *Celastrina echo*, *Glaucoopsyche lygdamus*, *Pyrgus ruralis*
- 19: 172 (262) (8) *Polites mardon*, *Callophrys polios*
- 20: 172 (273) (8)
- 21: 175 (279) (8) *Hesperia metea*, *Callophrys hesseli*, *Hesperia juba*
- 22: 197 (284/272) (11) *Euphilotes columbiae*, *Callophrys dumetorum*, *Colias philodice*, *Speyeria coronis*, *Callophrys mossii*, *Chlosyne acastus*, *Papilio indra*, *Papilio multicaudata*, *Colias occidentalis*, *Colias alexandra*, *Pontia sisymbrii*, *Pontia beckerii*, *Glaucoopsyche piasus*, *Callophrys eryphon*, *Lycaena nivalis*, *Lycaena helloides*, *Euphydryas anicia*, *Euphilotes "battoides"*, *Callophrys affinis*, *Cercyonis oetus*, *Celastrina lucia*, *Oeneis nevadensis*.
- 23: 214 (301/290) (14) *Satyrrium sylvinum*, *Apodemia virgulti*, *Lycaena hermes*, *Zerene eurydice*, *Lycaena xanthioides*, *Lycaeides melissa*, *Strymon saepium*, *Satyrrium auretteorum*, *Speyeria callippe*, *Callophrys thornei*, *Chlosyne gabbii*, *Polites sabuleti*, *Lerodea eufala*, *Panoquina errans*, *Hesperia colorado*, *Colias harfordi*, *Strymon avalona*
- 24: 229 (329/316) (16) *Nymphalis vau-album*, *Erynnis perseus*, *Boloria frigga*, *Polygonia faunus*, *Colias palaeno*, *Papilio canadensis*, *Erebia epipsodea*, *Carterocephalus palaemon*, *Erebia discoidalis*, *Papilio machaon*, *Pontia occidentalis*, *Boloria freija*, *Erebia fasciata*, *Oeneis bore*, *Pieris angelika*
- 25: 239 (349/336) (16) *Euchloe creusa*, *Erebia rossii*, *Erebia disa*, *Colias gigantea*, *Colias tyche*, *Plebejus saepiolus*, *Phyciodes pulchella*, *Colias canadensis*, *Boloria eunomia*, *Boloria epithore*
- 26: 259 (383/370) (17) *Polygonia comma*, *Asterocampa celtis*, *Asterocampa clyton*, *Celastrina neglecta*, *Speyeria cybele*, *Boloria bellona*, *Cercyonis pegala*, *Lethe eurydice*, *Satyrrium calanus*, *Satyrrium liparops*, *Poanes massasoit*, *Polygonia progne*, *Euphydryas phaeton*, *Lycaena dione*, *Speyeria idalia*, *Hesperia ottoe*, *Pholisora catullus*, *Lycaena phlaeas*, *Satyrrium titus*, *Satyrrium edwardsii*
- 27: 268 (406/395) (18) *Speyeria aphrodite*, *Euphyes bimacula*, *Euphyes conspicua*, *Lethe appalachia*, *Euphyes dion*, *Lycaena hyllus*, *Boloria selene*, *Parnassius clodius*, *Polites sonora*
- 28: 287 (413/402) (19) *Cercyonis sthenele*, *Euphydryas colon*, *Satyrrium behrii*, *Euphilotes glaucon*, *Philotiella leona*, *Speyeria hesperis*, *Lycaena editha*, *Chlosyne hoffmanni*, *Speyeria hydaspae*, *Lycaeides anna*, *Agriades podarce*, *Callophrys sheridani*, *Satyrrium fuliginosum*, *Lycaena gorgon*, *Speyeria egleis*, *Anthocharis lanceolata*, *Satyrrium californiica*, *Hesperia lindseyi*, *Lycaena arota*

- 29: 318 (427/415) (23) *Lycaena cupreus*, *Euphilotes enoptes*, *Colias behrii*, *Thorybes mexicana*, *Lycaena rubidus*, *Phyciodes orseis*, *Oarisma garita*, *Limnitis weidemeyerii*, *Oeneis chryxus*, *Agriades glandon*, *Speyeria atlantis*, *Lycaeides idas*, *Oeneis uhleri*, *Lycaena heteronea*, *Parnassius smintheus*, *Polites draco*, *Erebia magdalena*, *Chlosyne damoetas*, *Colias meadii*, *Colias scudderii*, *Erebia callias*, *Boloria chariclea*, *Boloria improba*, *Pyrgus centaureae*, *Erynnis icelus*, *Piruna pirus*, *Neominois ridingsii*, *Speyeria mormonia*, *Euphydryas gilletti*, *Oeneis melissa*, *Hesperia uncas*
- 30: 327 (433/420) (26), *Atrytone aragos*, *Ochlodes sylvanoides*, *Poanes taxiles*, *Phyciodes cocyta*, *Polites mystic*, *Ochlodes snowi*, *Speyeria edwardsii*, *Hypaurotis crysalis*, *Plebejus shasta*
- 31: 335 (448/435) (28) *Thymelicus lineola*, *Neophasia menapia*, *Satyrium semiluna*, *Speyeria zerene*, *Lycaena mariposa*, *Boloria astarte*, *Erebia vidleri*, *Colias interior*
- 32: 337 (460/446) (29) *Mitoura johnsoni*, *Habrodais grunus*
- 33: 344 (467/452) (31) *Colias pelidne*, *Colias christina*, *Phyciodes pallida*, *Coenonympha haydeni*, *Ochlodes yuma*, *Speyeria nokomis*, *Lycaena dorcas*
- 34: 351 (467/452) (33) *Lethe anhedon*, *Lethe creola*, *Polites peckius*, *Amblyscirtes aesculapius*, *Feneseca tarquinius*, *Euphyes dukesi*, *Speyeria diana*
- 35: 355 (468/455) (34) *Polites origenes*, *Euphilotes rita*, *Cercyonis meadii*, *Hesperia leonardus*
- 36: 355 (475/462) (34)
- 37: 355 (478/465) (34)
- 38: 357 (483/471) (34) *Heliopetes ericetorum*, *Adelpha eulalia*
- 39: 377 (485/473) (36) *Poladryas arachne*, *Calephelis nemesis*, *Chlosyne californica*, *Systasea zampa*, *Chlosyne lacinia*, *Asterocampa leilia*, *Eurema mexicana*, *Texola elada*, *Heliopetes domicella*, *Mitoura xami*, *Eurema proterpia*, *Cyllopsis pertepida*, *Cyllopsis pyracmon*, *Microtia elva*, *Calephelis arizonensis*, *Junonia evarete*, *Pyrgus philetas*, *Dymasia dymas*, *Euptoieta hegestia*, *Lerodea arabus*
- 40: 392 (495/483) (38) *Agathymus aryxna*, *Atrytonopsis edwardsii*, *Atrytonopsis pittacus*, *Pyrrhopyge araxes*, *Geirocheila patrobas*, *Agathymus evansi*, *Neophasia terlooi*, *Chlosyne cyneas*, *Hesperia pahaska*, *Ministrymon leda*, *Appias drusilla*, *Emesis ares*, *Anaea aidea*, *Chlosyne theona*, *Chlosyne fulvia*
- 41: 421 (501/488) (40) *Calephelis rawsoni*, *Megisto rubricata*, *Hesperia viridis*, *Mestra amymone*, *Chlosyne janais*, *Nastra julia*, *Anthanassa texana*, *Myscelia ethusa*, *Hermeuphychia hermybius*, *Urbanus teleus*, *Urbanus procne*, *Staphylus mazans*, *Eantis tamemund*, *Heliopetes laviana*, *Cybaeus trebius*, *Anthanassa tulcis*, *Calephelis perditalis*, *Caria ino*, *Pyrisitia nise*, *Chlorostyemon simaethis*, *Chlosyne rosita*, *Anartia fatima*, *Siproeta stelenes*, *Chioides albofasciatus*, *Cabares potrillo*, *Cogia calchas*, *Quasimellana eulogius*, *Danaus eresimus*, *Heliopetes macaira*
- 42: 433 (498/493) (43) *Rekoa marius*, *Calycopus isobea*, *Emesis emesia*, *Chiodes zilpa*, *Achalarus toxeus*, *Systasia pulverulenta*, *Amblyscirtes celia*, *Panoquina lucas*, *Problema byssus*, *Hesperia attalus*, *Hesperia meskei*, *Atrytonopsis loammi*
- 43: 435 (503/499) (44) *Polygonus leo*, *Anaea troglodyta*
- 44: 453 (509/504) (49) *Panoquina hecebolus*, *Phocides polybius*, *Aguna metophis*, *Timochares ruptifasciatus*, *Synapte pecta*, *Melanis pixe*, *Ministrymon clytie*, *Chiomara georgina*, *Aguna asander*, *Doxocopa laure*, *Astraptus anaphus*, *Biblis hyperia*, *Pellicia arena*, *Strymon bazochii*, *Lasaia sula*, *Adelpha fessonia*, *Nyctelius nyctelius*, *Panoquina panoquinoides*

- 45: 455 (520/515) (51) *Plebejus samuelis*, *Calephilis mutica*
- 46: 455 (526/521) (51)