

## CHECKLIST OF SOUTH DAKOTA BUTTERFLIES (HESPERIOIDEA AND PAPILIONOIDEA)

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**ABSTRACT.** This paper presents a list of 172 butterfly species (Hesperioidea and Papilionoidea) documented from South Dakota. The list was compiled from records of resident and non-resident collectors, published literature, and university collections. For each species all recorded counties and adult flight periods are given.

**Additional key words:** distributions, Great Plains.

This paper is the first comprehensive treatment of South Dakota's butterfly fauna. An early list of butterfly species by Truman (1896, 1897) covers an area near Volga, Brookings County. Many of Truman's specimens are deposited in the H. C. Severin Insect Collection at South Dakota State University. Other regional works include those for Sieche Hollow State Park in Marshall and Roberts counties (Masters 1975), and the Black Hills (Conway 1966). Papers treating only a species or group of species include Ferris (1969, 1976, 1981, 1983), Grey et al. (1963), McCabe (1981), Nordin (1967, 1968), and Scott and Stanford (1981). Many records for the western half of the state, west of the 100th meridian, are mapped by Stanford (Ferris & Brown 1981). Stanford and Opler (1993) reported butterfly species occurrences (county dot maps) for the western United States, including all of South Dakota.

South Dakota is known as the "land of infinite variety" because of the diversity of terrain, habitat, and climate. There is a general increase in elevation from 335 m in the southeast to 1035 m in the northwest; the highest point is Harney Peak (2209 m) in the Black Hills and the lowest is on the Minnesota River (293 m) in the northeast corner of the state. The state is mostly gently rolling grassland with the Missouri River dividing it from north to south into two nearly equal parts. The area east of the river is characterized by a glaciated topography with tall grass, low rolling hills, and many lakes and marshes. The western, semi-arid mixed grass prairie, portion of the state has deep valleys and broad upland flats and buttes. The Black Hills, on the extreme western edge of the state, may be regarded as an outpost of the Rocky Mountains. Mean annual precipitation ranges from 66 cm in the southeast and Black Hills, to less than 30.5 cm in the northwest.

One hundred seventy-two species of butterflies are known to occur in South Dakota. Of these, 132 are residents and the remainder are immigrants or strays. Other species undoubtedly will be added to this list as collecting continues. The author encourages anyone who can provide additional information to contact him.

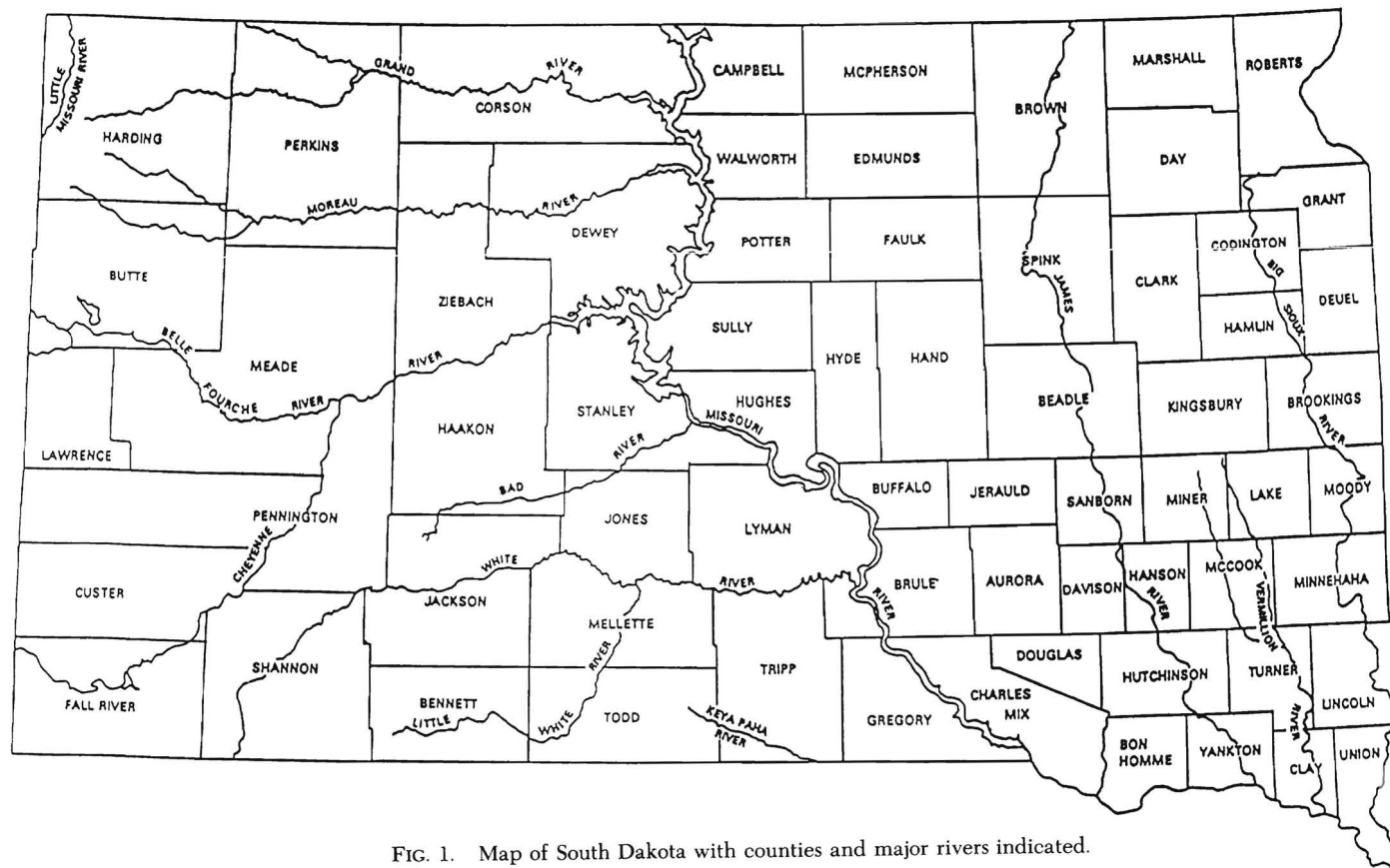


FIG. 1. Map of South Dakota with counties and major rivers indicated.

A "butterfly calendar," illustrating adult flight periods, was developed based on 6,500 South Dakota butterfly records (Table 1). Data were lacking for some species so approximations were made. The number of species occurring per each month is as follows:

Apr	May	Jun	Jul	Aug	Sep	Oct
20	76	137	131	93	53	17

More than 2,500 county records, tabulated through December 1993, are presented. This equates to an average of 39 species from each of South Dakota's 66 counties. County locations and names are shown in Fig. 1. The number of species known per county ranges from 11 for Edmunds County to 117 for Pennington County (Table 2). In general, the counties with the highest totals are those of the Black Hills which is a reflection of a greater sampling effort combined with a broad diversity of habitats. The counties with the fewest reported species are generally highly agricultural or have not been surveyed thoroughly. No species has been documented for all South Dakota counties; however, five species have been recorded for more than 60 of the 66 counties: *Pieris rapae*, *Colias eurytheme*, *Colias philodice*, *Lycaeides melissa*, and *Cercyonis pegala*. Twenty-seven counties have fewer than 30 species recorded. South Dakota's total of 172 species ranks fourth among its bordering western Great Plains states: Wyoming—210, Nebraska—197, Montana—187, and North Dakota—143 (Stanford & Opler 1993).

Data for county records were obtained from the following sources:

- (1) The collections at South Dakota State University, Brookings; University of South Dakota, Vermillion; Northern State University, Aberdeen; and North Dakota State University, Fargo.
- (2) Private collections of Gerald Fauske, Fargo, N.D., who collected primarily in the vicinity of Sioux Falls; Bruce K. Harris, Clear Lake; Abran and Joseph Kean, Pierre; John S. Nordin, formerly of Webster, who collected extensively during 1965 to 1971; and the personal collection of the author.
- (3) A review of the literature, including Season Summaries of The Lepidopterists' Society (1976–1993).
- (4) South Dakota collection records provided by non-resident collectors.

Taxonomy and nomenclature follow *A Catalogue/Checklist of the Butterflies of America North of Mexico* (Miller & Brown 1981) and its supplement (Ferris 1989).

The following species and subspecies have type localities designated in South Dakota:

*Erynnis persius fredericki*—"Spearfish Canyon, Lawrence Co., South Dakota."

TABLE 1. Summary of butterfly flight periods in South Dakota and general comments on each species. Each mark represents on the average a ten day period. The markings indicate: (.) non flight period, (-) few or worn specimens and (\*) fresh specimens.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Epargyreus c. clarus</i>	..-	***	*--	---	...	...	May 24–Aug 22	statewide
<i>Thorybes pylades</i>	..-	***	---	...	...	...	May 23–Jul 25	western ½ SD, univoltine
<i>Staphylus hayhurstii</i>			one record				Sep 08	Yankton Co., stray?
<i>Erynnis icelus</i>			four records, one date				Jun 24	Black Hills
<i>Erynnis b. brizo</i>			no dates available					extreme eastern SD, stray?
<i>Erynnis j. juvenalis</i>	..*	*--	...	...	...	...	May 25–Jun 23	scattered statewide, uncommon
<i>Erynnis horatius</i>		two records, only one date					Aug 10	extreme eastern SD
<i>Erynnis martialis</i>	..*	*--	...	...	...	...	May 25–Jul 10	northern Black Hills
<i>Erynnis afranius</i>	...	..*	*--	...	...	...	Jun 23–Jul 30	western ½ SD
<i>Erynnis persius fredericki</i>	..*	***	---	...	...	...	May 03–Jul 13	western ½ SD
<i>Pyrgus scriptura</i>	..-	...	..-	...	...	...	May 02–Jul 11	statewide, uncommon
<i>Pyrgus communis</i>	..*	*--	---	***	---	---	May 24–Oct 15	statewide, common, bivoltine
<i>Pholisora catullus</i>	---	*--	---	*--	...	...	May 07–Aug 10	statewide, bivoltine
<i>Ancyloxypha numitor</i>	...	---	***	*--	..-	...	Jun 06–Sep 03	statewide, near water
<i>Oarisma powesheik</i>	...	...	**-	...	...	...	Jul 01–Jul 14	northeast SD, near wetlands
<i>Oarisma garita</i>	...	..*	..-	...	...	...	Jun 13–Jul 08	western ½ SD
<i>Hylephila p. phyleus</i>			one record				Oct 07	extreme southeast SD, stray?
<i>Yvretta rhesus</i>	**-	..-	...	...	...	...	May 07–Jul 10	western ½ SD
<i>Hesperia u. uncas</i>	...	..*	**-	---	..-	...	Jun 21–Sep 04	scattered statewide
<i>Hesperia juba</i>			one record				Jun 13	Lawrence Co., stray?
<i>Hesperia comma assinihoia</i>	...	...	...	..-	*--	...	Aug 21–Sep 04	statewide, uncommon
<i>Hesperia ottoe</i>	...	..*	*--	..-	...	...	Jun 23–Jul 30	statewide, uncommon, native prairie
<i>Hesperia leonardus pawnee</i>	...	...	...	**	*--	...	Aug 13–Sep 09	statewide
<i>Hesperia p. pahaska</i>	..-	**-	..-	...	...	...	May 31–Jul 10	western ½ SD
<i>Hesperia dacotae</i>	...	..-	*--	...	...	...	Jun 30–Jul 11	northeast SD, rare, native prairie
<i>Hesperia nevada</i>			one record				Jul 07	Pennington Co., stray?
<i>Polites peckius</i>	...	---	*--	---	...	...	Jun 07–Aug 31	statewide
<i>Polites themistocles</i>	..-	***	*--	---	...	...	May 28–Aug 23	statewide, common
<i>Polites origenes rhena</i>	..-	***	---	..-	...	...	May 31–Jul 30	northeast and western SD
<i>Polites mystic dacotah</i>	...	---	*--	..-	...	...	Jun 06–Aug 13	statewide, wet areas

TABLE 1. Continued.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Wallengrenia egeremet</i>	...	..-	*--	...	...	...	Jul 01-Jul 09	extreme eastern SD, uncommon
<i>Pompeius verna</i>	...	**	---	...	...	...	Jun 21-Jul 18	southeast SD, rare
<i>Atalopedes c. campestris</i>	...	**	*--	--*	...	...	Jun 15-Oct 10	statewide, regular southern migrant
<i>Atrytone arogos iowa</i>	...	---	*--	...	...	...	Jun 25-Jul 26	statewide, uncommon, native prairie
<i>Atrytone logan lagus</i>	..*	**	---	...	...	...	May 26-Jul 29	statewide
<i>Ochlodes sylvanoides napa</i>	...	..-	...	*-	..	...	Jun 24-Sep 04	northern Black Hills
<i>Poanes m. massasoit</i>	two records, only one date					...	Jun 06	northeast SD, rare
<i>Poanes h. hobomok</i>	..*	**	---	...	...	...	May 26-Jul 25	statewide
<i>Poanes zabulon</i>	one record					...	Jun 28	Brule Co., stray
<i>Poanes taxiles</i>	...	..*	*-	...	...	...	Jun 25-Jul 16	Black Hills
<i>Poanes v. viator</i>	...	...	*-	...	...	...	Jul 03-Jul 08	northeast SD, near wetlands, local
<i>Euphyes vestris kiowah</i>	...	..*	*--	---	...	...	Jun 18-Aug 15	statewide, uncommon
<i>Atrytonopsis hianna</i>	..*	*--	---	...	...	...	May 24-Jul 04	statewide, scattered, dry hillsides
<i>Amblyscirtes simius</i>	..-	*--	---	...	...	...	May 31-Jul 08	Black Hills, uncommon
<i>Amblyscirtes osleri</i>	..*	*--	...	...	...	...	May 24-Jun 26	western ½ SD
<i>Amblyscirtes vitalis</i>	--*	*--	---	---	...	...	May 07-Aug 30	statewide, univoltine
<i>Lerodea eufala</i>	three records, only one date					...	Jun 25	Minnehaha & Day Cos., southern migrant
<i>Megathymus streckeri leussleri</i>	..*	**	---	...	...	...	May 24-Jul 08	western ½ SD, near yucca
<i>Parnassius phoebus sayii</i>	...	***	---	...	...	...	Jun 06-Jul 17	Black Hills, near sedum
<i>Battus p. philenor</i>	no dates available					...	...	stray, Brookings and Minnehaha Cos.
<i>Eurytides marcellus</i>	one record, no date					...	...	stray, Minnehaha Co.
<i>Papilio polyxenes asterius</i>	***	*--	*--	---	---	...	Apr 30-Sep 29	statewide, rare western ½ SD
<i>Papilio b. bairdii</i>	*--	...	---	---	...	...	May 03-Aug 26	western ½ SD, uncommon
<i>Papilio zelicaon nitra</i>	**	--*	*--	---	...	...	Apr 24-Aug 05	western ½ SD, common Black Hills
<i>Papilio i. indra</i>	...	**	---	---	---	...	Jun 06-Sep 15	Black Hills, rare
<i>Heracles cresphontes</i>	...	..-	...	**	---	...	Jun 10-Sep 01	resident, extreme southeast SD
<i>Pterourus g. glaucus</i>	*--	---	---	***	---	...	Apr 29-Sep 04	eastern ½ SD, bivoltine
<i>Pterourus canadensis</i>	...	***	*--	...	...	...	Jun 05-Jul 21	Black Hills and extreme northeast SD
<i>Pterourus r. rutulus</i>	...	...	---	...	...	...	Jul 07-Jul 24	Black Hills, rare
<i>Pterourus multicaudatus</i>	..-	**	--*	---	...	...	May 22-Aug 05	western ½ SD
<i>Pterourus eurymedon</i>	...	**	---	...	...	...	Jun 16-Jul 20	northern Black Hills, rare

TABLE 1. Continued.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Pterourus t. troilus</i>			two records, no dates					southern migrant, rare
<i>Neophasia m. menapia</i>	...	...	...	**	---	...	Aug 08-Sep 18	Black Hills
<i>Pontia sisymbrii nordini</i>	***	---	...	...	...	...	Apr 16-Jun 09	Black Hills and Harding Co.
<i>Pontia protodice</i>	---	---	**	***	---	---	Mar 03-Oct 06	statewide, common
<i>Pontia o. occidentalis</i>	---	*	---	---	---	...	May 03-Sep 04	mostly western ½ SD
<i>Pieris napi oleracea</i>			three fresh specimens				Jul 05	Marshall and Roberts Cos., stray
<i>Pieris napi mcdunnoughi</i>			one record				Jun 23	Lawrence Co., stray
<i>Pieris rapae</i>	---	***	***	***	*	---	Apr 16-Oct 06	statewide
<i>Ascia monuste</i>			one record				May 26	Brown Co., southern migrant
<i>Euchloe ausonides palaeoreios</i>	---	***	---	...	...	...	May 06-Jul 21	Black Hills
<i>Euchloe olympia</i>	***	---	...	...	...	...	Apr 25-Jun 11	statewide, univoltine
<i>Anthocharis sara julia</i>			one record				Jun 23	Lawrence Co., migrant
<i>Colias philodice</i>	---	---	***	***	*	---	Apr 13-Dec 09	statewide, multivoltine
<i>Colias eurytheme</i>	---	***	***	***	*	---	May 10-Oct 09	statewide, multivoltine
<i>Colias a. alexandra</i>	---	---	---	---	---	...	May 24-Sep 03	Black Hills & Jackson Co., uncommon
<i>Colias alexandra krauthii</i>	...	*	---	...	...	...	Jun 23-Jul 27	Black Hills
<i>Zerene c. cesonia</i>	---	---	---	*	---	...	May 10-Aug 30	mostly southeast SD, southern migrant
<i>Phoebis sennae eubele</i>	...	...	...	---	---	...	Aug 15-Sep 26	southeast SD, rare southern migrant
<i>Phoebis a. agarithe</i>			two records, one date				May 21	Brookings and Minnehaha Cos., migrant
<i>Eurema d. daira</i>			one record, no date					Minnehaha Co., southern migrant
<i>Eurema mexicanum</i>	---	...	---	...	...	...	May 10-Jul 27	rare southern migrant
<i>Eurema l. lisa</i>	---	...	---	---	---	---	May 28-Oct 01	eastern ½ SD, regular migrant
<i>Eurema nicippe</i>			two records, no dates					Minnehaha Co., rare southern migrant
<i>Nathalis iole</i>	---	---	---	---	---	---	May 11-Oct 27	regular southern migrant
<i>Feniseca t. tarquinius</i>			one record, no date					Marshall Co., stray?
<i>Lycaena phlaeas americana</i>			three records, one date				Jun 01	Jackson Co., stray?
<i>Gaeides xanthoides dione</i>	...	*	**	...	...	...	Jun 11-Jul 29	statewide, univoltine
<i>Hylolycaena hyllus</i>	...	---	*	---	---	...	Jun 04-Sep 06	statewide, bivoltine
<i>Chalceria rubida longi</i>	...	---	...	...	...	...	Jun 20-Jun 27	western ¼, rare, univoltine
<i>Epidemia helloides</i>	---	---	---	---	---	...	May 18-Sep 18	statewide, multivoltine
<i>Harkenclenus t. titus</i>	...	*	**	---	---	...	Jun 16-Aug 29	statewide, univoltine

TABLE 1. Continued.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Satyrium acadicum montanensis</i>	...	---	*--	---	...	...	Jun 18-Aug 01	widely scattered statewide, univoltine
<i>Satyrium edwardsii</i>			one record				Jul 05	Roberts Co.
<i>Satyrium calanus falacer</i>	...	---	---	---	...	...	Jun 18-Aug 18	widely scattered statewide
<i>Satyrium caryaevorum</i>			one record				Jun 18	Lawrence Co.
<i>Satyrium liparops</i>	...	.*	---	...	...	...	Jun 16-Jul 20	scattered statewide, rare
<i>Mitoura s. siva</i>	..*	*--	---	---	...	...	May 24-Aug 05	western ½ SD, univoltine
<i>Mitoura g. grynea</i>			one record				Jul 30	Union Co., stray?
<i>Incisalia augustinus troides</i>	---	---	...	...	...	...	May 03-Jun 22	Black Hills
<i>Incisalia polia obscura</i>	---	---	...	...	...	...	May 02-Jun 25	Black Hills, very local
<i>Incisalia e. eryphon</i>	---	---	---	---	---	...	Apr 30-Jun 23	Black Hills, Harding and Todd Cos.
<i>Strymon melinus atrofasciatus</i>	---	---	---	---	---	...	Apr 30-Sep 29	statewide, multivoltine
<i>Leptotes marina</i>		two records, one date					Aug 02	Minnehaha and Pennington Cos., rare
<i>Hemiargus isola alce</i>	..	---	---	---	---	...	May 25-Oct 01	statewide, migrant, multivoltine
<i>Everes c. comyntas</i>	..	---	---	---	---	...	May 27-Sep 09	statewide, multivoltine
<i>Everes amyntula valeriae</i>	---	---	---	---	---	...	Apr 28-Aug 01	Black Hills
<i>Celastrina argiolus</i>	---	***	---	---	---	...	Apr 05-Sep 02	statewide, multivoltine
<i>Glaucopsyche piasus daunia</i>	...	---	...	...	...	...	Jun 02-Jun 25	Black Hills and Harding Co.
<i>Glaucopsyche lygdamus oro</i>	---	*--	---	---	---	...	Apr 14-Jul 19	western ½ and northeast SD
<i>Lycaeides m. melissa</i>	..*	***	***	**	---	...	May 16-Oct 07	statewide, common, bivoltine
<i>Plebejus s. saepiolus</i>	..	---	---	---	---	...	May 31-Jul 27	Black Hills and Harding Co.
<i>Icaricia icarioides lycea</i>	...	---	---	---	---	...	Jun 02-Aug 14	Black Hills and Harding Co.
<i>Icaricia shasta minnehaha</i>			one record				Jun 26	Black Hills, rare
<i>Icaricia acmon lutzi</i>	..*	---	---	---	---	...	May 24-Aug 02	western ½ and northeast SD
<i>Agriades r. rusticus</i>	...	---	---	---	---	...	Jun 03-Jul 09	Black Hills, very local, univoltine
<i>Apodemia m. mormo</i>		one record, no date						Pennington Co., stray?
<i>Libytheana b. bachmanii</i>	...	...	---	---	---	...	Jul 17-Oct 07	eastern ¼ SD, southern migrant
<i>Agraulis vanillae incarnata</i>		three records, one date					Jul 22	rare, stray
<i>Euptoieta claudia</i>	---	***	---	*--	---	---	May 09-Oct 18	statewide, regular migrant
<i>Speyeria c. cybele</i>	...	---	---	---	---	...	Jun 06-Sep 02	statewide, univoltine, forest margins
<i>Speyeria aphrodite</i>	...	---	---	---	---	...	Jun 08-Aug 14	statewide, univoltine
<i>Speyeria idalia</i>	...	..*	---	---	---	...	Jun 12-Sep 14	statewide, except NW corner, prairies

TABLE 1. Continued.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Speyeria edwardsii</i>	..	***	---	---	---	...	May 24–Sep 18	western ½ SD, univoltine
<i>Speyeria coronis</i>	...	---	---	...	...	...	Jun 16–Jul 27	Black Hills & Harding Co., uncommon
<i>Speyeria zerene garretti</i>	...	..	---	---	...	...	Jun 23–Aug 05	Black Hills & Harding Co., uncommon
<i>Speyeria callippe calgariana</i>	...	---	*	...	...	...	Jun 06–Jul 14	scattered western ½ SD, univoltine
<i>Speyeria atlantis</i>	...	---	***	---	...	...	Jun 18–Aug 15	Black Hills and Shannon Co.
<i>Speyeria mormonia eurynome</i>	...	*	---	...	...	...	Jun 22–Jul 28	Black Hills and Shannon Co.
<i>Clossiana selene myrina</i>	...	---	*	---	...	...	Jun 15–Aug 15	northeast SD, wet areas
<i>Clossiana selene nebraskensis</i>	---	---	---	...	...	...	May 29–Jul 23	extreme south central SD, wet areas
<i>Clossiana selene sabulocollis</i>	...	---	---	...	...	...	Jun 09–Jul 27	Black Hills
<i>Clossiana bellona toddi</i>	---	---	*	---	---	...	May 08–Sep 02	eastern ¼ SD, wet areas
<i>Charidryas gorgone carlota</i>	---	*	---	---	---	...	Apr 10–Sep 05	statewide, bivoltine
<i>Charidryas n. nycteis</i>	...	---	*	---	...	...	Jun 08–Aug 18	statewide
<i>Charidryas acastus</i>	---	---	...	---	...	...	May 19–Aug 24	scattered western ½ SD, bivoltine
<i>Anthanassa t. texana</i>			one record				Jul 07	Roberts Co., rare migrant
<i>Phyciodes t. tharos</i>	---	***	***	---	---	---	Apr 26–Oct 09	statewide, multivoltine
<i>Phyciodes pascoensis</i>	...	*	*	...	...	...	Jun 16–Jul 14	northeast and western SD, univoltine
<i>Phyciodes batesii</i>	...	---	---	---	...	...	Jun 08–Aug 15	Black Hills, univoltine
<i>Phyciodes pratensis camillus</i>	...	...	---	...	...	...	Jul 08–Jul 27	Lawrence and Fall River Cos., uncommon
<i>Phyciodes pallidus barnesi</i>	---	---	---	...	...	...	May 25–Jul 08	Black Hills, uncommon
<i>Euphydryas anicia bernadetta</i>	---	*	...	...	...	...	May 08–Jun 25	western ¼ SD, univoltine
<i>Polygonia interrogationis</i>	..	*	***	---	---	---	May 28–Oct 01	statewide, rare western ½ SD
<i>Polygonia comma</i>	---	---	***	***	---	---	Apr 24–Oct 07	eastern ½ SD, near woods
<i>Polygonia satyrus</i>		three records, one date					Aug 09	Black Hills, uncommon
<i>Polygonia faunus</i>	---	---	---	---	...	...	Apr 26–Aug 18	Black Hills, univoltine
<i>Polygonia zephyrus</i>	---	*	*	---	---	...	Apr 23–Sep 18	Black Hills
<i>Polygonia p. progne</i>	..	---	**	---	---	...	Apr 30–Sep 24	statewide, scattered, near woods
<i>Nymphalis vaualbum j-album</i>	---	---	*	---	---	...	May 05–Sep 13	Black Hills, northeast SD, migrant
<i>Nymphalis c. californica</i>		two records, no dates						western migrant
<i>Nymphalis a. antiopa</i>	---	---	**	---	**	---	Mar 13–Oct 10	statewide, univoltine
<i>Aglais m. milberti</i>	---	*	**	---	*	...	Apr 09–Sep 27	statewide, common Black Hills
<i>Vanessa virginiensis</i>	..	---	---	---	...	...	May 30–Aug 01	statewide, uncommon

TABLE 1. Continued.

Species	May	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
<i>Vanessa cardui</i>	---	---	---	**	---	...	Mar 31-Sep 22	statewide, large migration '83, '91, '92
<i>Vanessa annabella</i>	...	...	---	...	...	...	Jul 03-Jul 28	Black Hills, western migrant, rare
<i>Vanessa atalanta rubria</i>	---	---	---	**	---	...	Apr 30-Sep 18	statewide, common migrant
<i>Junonia coenia</i>	...	..	---	---	---	---	Jun 30-Oct 15	eastern ½ SD, southern migrant
<i>Basilarchia a. arthemis</i>	...	..	**	---	...	...	Jun 29-Aug 14	northeast SD, univoltine
<i>B. arthemis rubrofasciata</i>	...	---	*	...	...	...	Jun 16-Jul 14	northeast SD, univoltine
<i>B. arthemis astyanax</i>	...	---	**	---	...	...	Jun 07-Sep 09	eastern ½ SD, bivoltine
<i>B. a. archippus</i>	...	---	*	**	---	...	Jun 06-Sep 17	statewide, except northwest SD
<i>B. weidemeyerii oberfoelli</i>	...	**	**	---	...	...	Jun 06-Aug 15	western ½ SD, univoltine
<i>Mestra amymone</i>		one record, no date						Brookings Co., southern migrant
<i>Anaea andria</i>	...	...	..	---	---	...	Apr 30-Sep 02	southcentral SD, southern migrant
<i>Asterocampa c. celtis</i>	...	**	---	**	---	...	Jun 04-Sep 02	statewide except northwest SD
<i>Asterocampa c. clyton</i>	...	...	..	---	...	...	Jul 19-Aug 30	eastern ¼, rare, univoltine
<i>Enodia anthedon</i>	...	---	*	---	...	...	Jun 16-Aug 24	eastern ¼ SD, uncommon, wooded areas
<i>Satyroides eurydice</i>	...	..	*	---	...	...	Jun 23-Aug 10	eastern ¾ SD, near wetlands
<i>Megisto c. cymela</i>	...	---	*	...	...	...	Jun 12-Jul 31	statewide, wooded areas, univoltine
<i>Coenonympha tullia</i>	---	***	*	---	...	...	May 16-Aug 18	statewide, common, prairies
<i>Cercyonis pegala</i>	...	---	***	**	---	...	Jun 16-Sep 09	statewide, common, univoltine
<i>Cercyonis m. meadii</i>	...	...	...	---	...	...	Aug 01-Aug 19	Black Hills & Harding Co., uncommon
<i>Cercyonis oetus charon</i>	...	..	*	---	...	...	Jun 25-Aug 18	western ¼ SD, uncommon, univoltine
<i>Neominois r. ridingsii</i>		two records, one date					Jun 17	Pennington Co., rare
<i>Oeneis c. chryxus</i>		one record, no date						Pennington Co.
<i>Oeneis uhleri</i>	---	**	---	...	...	...	May 10-Jul 17	western ¼ & northeastern SD, prairies
<i>Danaus plexippus</i>	---	---	*	---	***	**	May 13-Oct 02	statewide, regular migrant

TABLE 2. Number of butterfly species documented for South Dakota counties. Counties are listed alphabetically.

Aurora	12	Hyde	22
Beadle	15	Jackson	40
Bennett	38	Jerauld	17
Bon Homme	12	Jones	31
Brookings	81	Kingsbury	22
Brown	33	Lake	23
Brule	46	Lawrence	115
Buffalo	15	Lincoln	35
Butte	33	Lyman	37
Campbell	15	McCook	23
Charles Mix	38	McPherson	39
Clark	16	Marshall	55
Clay	42	Meade	74
Codington	37	Mellette	38
Corson	30	Miner	15
Custer	106	Minnehaha	71
Davison	30	Moody	23
Day	77	Pennington	117
Deuel	52	Perkins	32
Dewey	21	Potter	29
Douglas	20	Roberts	64
Edmunds	11	Sanborn	21
Fall River	87	Shannon	43
Faulk	20	Spink	18
Grant	34	Stanley	51
Gregory	30	Sully	33
Haakon	24	Todd	46
Hamlin	25	Tripp	47
Hand	19	Turner	30
Hanson	17	Union	49
Harding	75	Walworth	26
Hughes	55	Yankton	49
Hutchinson	23	Ziebach	26

*Hesperia dacotae*—"Volga, South Dakota and Grinnell, Iowa."

*Euchloe ausonides palaeoreios*—"Spearfish Canyon, Lawrence Co., South Dakota."

*Colias alexandra krauthii*—"Black Hills, 12 mi. W. of Custer, Custer Co., South Dakota."

*Everes amyntula valeriae*—"Lead, South Dakota."

*Speyeria atlantis lurana*—"Harney Peak, Black Hills, South Dakota."

#### COUNTY RECORDS OF SOUTH DAKOTA BUTTERFLIES

##### Superfamily Hesperioidea

##### Family HesperIIDae

- 1 *Epargyreus clarus clarus* (Cramer)—Brookings, Brule, Clay, Custer, Davison, Day, Deuel, Dewey, Fall River, Hand, Harding, Hughes, Lake, Lawrence, Meade, Mellette, Minnehaha, Pennington, Roberts, Shannon, Stanley, Union.

2. *Thorybes pylades* (Scudder)—Custer, Fall River, Harding, Lawrence, Lincoln, Lyman, Mellette, Pennington, Roberts, Yankton.
3. *Staphylus hayhurstii* (W. H. Edwards)—Yankton.
4. *Erynnis icelus* (Scudder and Burgess)—Custer, Lawrence, Pennington.
5. *Erynnis brizo brizo* (Boisduval and Le Conte)—Brookings, Minnehaha.
6. *Erynnis juvenalis juvenalis* (Fabricius)—Brookings, Charles Mix, Custer, Lawrence, Meade, Mellette, Pennington, Roberts, Todd.
7. *Erynnis horatius* (Scudder and Burgess)—Brookings, Day, Yankton.
8. *Erynnis martialis* (Scudder)—Lawrence.
9. *Erynnis afrauius* (Lintner)—Butte, Custer, Fall River, Harding, Lawrence, Meade, Pennington, Shannon, Ziebach.
10. *Erynnis persius fredericki* H. A. Freeman—Custer, Harding, Lawrence, Meade, Pennington, Perkins.
11. *Pyrgus scriptura* (Boisduval)—Custer, Fall River, Jackson.
12. *Pyrgus communis* (Grote)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Fall River, Grant, Gregory, Haakon, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Lake, Lawrence, Lincoln, Lyman, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Tripp, Union, Walworth, Yankton.
13. *Pholisora catullus* (Fabricius)—Bennett, Brookings, Brule, Butte, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Dewey, Fall River, Faulk, Gregory, Haakon, Hanson, Harding, Hughes, Hutchinson, Jackson, Jones, Lawrence, McPherson, Meade, Mellette, Minnehaha, Pennington, Potter, Sanborn, Shannon, Stanley, Sully, Todd, Tripp, Turner, Yankton.
14. *Ancyloxypha numitor* (Fabricius)—Bennett, Brookings, Clark, Clay, Codington, Day, Deuel, Fall River, Grant, Hamlin, Hughes, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, McCook, Minnehaha, Pennington, Roberts, Shannon, Stanley, Walworth, Yankton.
15. *Oarisma poweshiek* (Parker)—Brookings, Brown, Codington, Day, Deuel, Grant, Hamlin, Marshall, Roberts.
16. *Oarisma garita* (Reakirt)—Butte, Custer, Fall River, Harding, Lawrence, Meade, Pennington.
17. *Hylephila phyleus phyleus* (Drury)—Clay.
18. *Yvretta rhesus* (W. H. Edwards)—Bennett, Corson, Custer, Fall River, Harding, Jackson, Perkins.
19. *Hesperia uncas uncas* W. H. Edwards—Brookings, Codington, Custer, Day, Deuel, Fall River, Harding, Hughes, Jackson, Lawrence, McPherson, Meade, Pennington, Perkins, Potter, Stanley, Sully, Todd, Tripp.
20. *Hesperia juba* (Scudder)—Lawrence.
21. *Hesperia comma assiniboia* (Lyman)—Bennett, Custer, Day, Fall River, Harding, Lawrence, Marshall, McPherson, Pennington.
22. *Hesperia ottoe* W. H. Edwards—Brookings, Corson, Day, Deuel, Fall River, Harding, Lawrence, Pennington, Tripp, Union, Ziebach.
23. *Hesperia leonardus pawnee* Dodge—Bennett, Brookings, Butte, Custer, Day, Fall River, Harding, Hughes, Jackson, Lawrence, Marshall, Meade, Mellette, Pennington, Perkins, Roberts, Shannon, Stanley, Tripp, Union.
24. *Hesperia pahaska pahaska* (Leussler)—Custer, Fall River, Harding, Lawrence, Pennington, Ziebach.
25. *Hesperia dacotae* (Skinner)—Brookings, Brown, Codington, Day, Deuel, Grant, Hamlin, Marshall, McPherson, Moody, Roberts.
26. *Hesperia nevada* (Scudder)—Pennington.
27. *Polites peckius* (W. Kirby)—Aurora, Brookings, Brown, Codington, Corson, Custer, Davison, Day, Deuel, Douglas, Hamlin, Hanson, Harding, Lawrence, Lincoln, Marshall, McPherson, Minnehaha, Moody, Pennington, Roberts, Tripp, Union, Yankton.
28. *Polites themistocles* (Latreille)—Aurora, Brookings, Brown, Brule, Clay, Codington, Custer, Davison, Day, Deuel, Fall River, Gregory, Hamlin, Hand, Hanson, Harding,

- Hughes, Hyde, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Roberts, Stanley, Tripp, Turner, Union, Yankton.
29. *Polites origenes rhena* (W. H. Edwards)—Brookings, Codington, Custer, Day, Fall River, Harding, Lawrence, Marshall, Meade, Pennington, Shannon, Union.
  30. *Polites mystic dacotah* (W. H. Edwards)—Aurora, Bennett, Brookings, Brown, Clark, Codington, Custer, Day, Deuel, Douglas, Fall River, Hamlin, Kingsbury, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Roberts, Spink, Todd.
  31. *Wallengrenia egeremet* (Scudder)—Brookings, Day, Deuel, Marshall, Roberts.
  32. *Pompeius verna* (W. H. Edwards)—Hutchinson, Turner, Yankton.
  33. *Atalopedes campestris campestris* (Boisduval)—Bon Homme, Brookings, Brown, Charles Mix, Clay, Codington, Custer, Day, Deuel, Fall River, Grant, Gregory, Hughes, Jackson, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Minnehaha, Roberts, Shannon, Spink, Stanley, Todd, Tripp, Union, Yankton.
  34. *Atrytone arogos iowa* (Scudder)—Brookings, Brown, Custer, Day, Deuel, Fall River, Gregory, Lawrence, McPherson, Meade, Roberts, Stanley, Todd, Tripp.
  35. *Atrytone logan lagus* (W. H. Edwards)—Brookings, Brule, Clay, Codington, Corson, Custer, Day, Deuel, Douglas, Edmunds, Fall River, Grant, Gregory, Hamlin, Hand, Harding, Hughes, Hutchinson, Jerauld, Kingsbury, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Spink, Tripp, Union, Walworth, Yankton, Ziebach.
  36. *Ochlodes sylvanoides napa* (W. H. Edwards)—Butte, Lawrence, Meade.
  37. *Poanes massasoit massasoit* (Scudder)—Brookings, Roberts.
  38. *Poanes hobomok hobomok* (Harris)—Brookings, Brule, Charles Mix, Custer, Davison, Day, Deuel, Douglas, Fall River, Haakon, Harding, Hughes, Jerauld, Lake, Lawrence, Lyman, Marshall, McCook, Mellette, Minnehaha, Pennington, Roberts, Stanley, Tripp, Turner, Union.
  39. *Poanes zabulon* (Boisduval and Le Conte)—Brule.
  40. *Poanes taxiles* (W. H. Edwards)—Custer, Fall River, Lawrence, Meade, Pennington.
  41. *Poanes viator viator* (W. H. Edwards)—Brookings, Day, Deuel, Roberts.
  42. *Euphyes vestris kiowah* (Reakirt)—Brookings, Brule, Custer, Day, Fall River, Harding, Lawrence, Marshall, Minnehaha, Pennington, Perkins, Roberts, Stanley, Sully, Todd, Tripp, Walworth.
  - 43a. *Atrytonopsis hianna* ssp.—Day, Marshall, McPherson, Roberts.
  - 43b. *Atrytonopsis hianna turneri* H. A. Freeman—Bennett, Fall River, Haakon, Harding, Jones, Lyman, Meade, Mellette, Pennington, Perkins, Shannon.
  44. *Amblyscirtes simius* W. H. Edwards—Custer, Fall River, Meade, Pennington.
  45. *Amblyscirtes osleri* (Skinner)—Custer, Fall River, Haakon, Harding, Lawrence, Meade, Mellette, Pennington.
  46. *Amblyscirtes vialis* (W. H. Edwards)—Brookings, Charles Mix, Custer, Day, Fall River, Gregory, Haakon, Harding, Hughes, Hutchinson, Jackson, Jones, Lawrence, Lincoln, Meade, Mellette, Pennington, Perkins, Sanborn, Shannon, Sully, Todd, Tripp, Walworth.
  47. *Lerodea eufala* (W. H. Edwards)—Day, Minnehaha.
  48. *Megathymus streckeri leussleri* Holland—Custer, Fall River, Harding, Jackson, Lawrence, Meade, Pennington, Stanley, Todd, Ziebach.

## Superfamily Papilionoidea

### Family Papilionidae

49. *Parnassius phoebus sayii* W. H. Edwards—Custer, Lawrence, Meade, Pennington.
50. *Battus philenor philenor* (Linnaeus)—Brookings, Minnehaha.
51. *Eurytides marcellus* (Cramer)—Minnehaha.
52. *Papilio polyxenes asterius* Stoll—Bennett, Bon Homme, Brookings, Brown, Brule, Charles Mix, Custer, Davison, Day, Deuel, Fall River, Grant, Haakon, Hand, Hughes, Lawrence, Marshall, Minnehaha, Potter, Roberts, Stanley, Turner, Union, Yankton.

53. *Papilio bairdii bairdii* W. H. Edwards—Custer, Fall River, Harding, Pennington, Shannon, Stanley
54. *Papilio zelicaon nitra* W. H. Edwards—Butte, Custer, Fall River, Harding, Lawrence, McPherson, Meade, Pennington, Perkins, Shannon, Ziebach.
55. *Papilio indra indra* Reakirt—Custer, Fall River, Lawrence, Pennington.
56. *Heraclides cresphontes* (Cramer)—Brookings, Codington, Lincoln, Minnehaha, Union, Yankton.
57. *Pterourus glaucus glaucus* (Linnaeus)—Brookings, Brown, Brule, Charles Mix, Codington, Davison, Day, Deuel, Douglas, Faulk, Gregory, Hamlin, Hand, Hughes, Hutchinson, Hyde, Jerault, Kingsbury, Lake, Lincoln, Lyman, Marshall, McCook, Mellette, Miner, Minnehaha, Moody, Roberts, Spink, Stanley, Tripp, Turner, Union, Walworth, Yankton.
58. *Pterourus canadensis* (Rothschild and Jordan)—Custer, Fall River, Lawrence, Meade, Pennington, Roberts.
59. *Pterourus rutulus rutulus* (Lucas)—Custer, Fall River, Lawrence, Pennington.
60. *Pterourus multicaudatus* (W. F. Kirby)—Brule, Custer, Fall River, Harding, Lawrence, Meade, Pennington, Shannon, Todd.
61. *Pterourus eurymedon* (Lucas)—Lawrence, Pennington.
62. *Pterourus troilus troilus* (Linnaeus)—Minnehaha, Pennington.

### Family Pieridae

63. *Neophasia menapia menapia* (C. and R. Felder)—Custer, Fall River, Lawrence, Meade, Pennington.
64. *Pontia sisymbrii nordini* (K. Johnson)—Custer, Fall River, Harding, Lawrence, Pennington.
65. *Pontia protodice* (Boisduval and Le Conte)—Beadle, Bennett, Brookings, Brule, Buffalo, Butte, Charles Mix, Clay, Corson, Custer, Davison, Day, Douglas, Fall River, Gregory, Hand, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Lawrence, Lincoln, Lyman, McCook, McPherson, Meade, Miner, Minnehaha, Pennington, Potter, Sanborn, Shannon, Spink, Stanley, Sully, Tripp, Turner, Union, Yankton.
66. *Pontia occidentalis occidentalis* (Reakirt)—Bennett, Brule, Butte, Corson, Custer, Day, Fall River, Hughes, Hyde, Lawrence, Lyman, McPherson, Mellette, Pennington, Sanborn, Stanley, Sully, Walworth, Ziebach.
- 67a. *Pieris napi oleracea* Harris—Marshall, Roberts.
- 67b. *Pieris napi mcdunnoughi* Remington—Lawrence.
68. *Pieris rapae* (Linnaeus)—Aurora, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerault, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton.
69. *Ascia monuste* ssp.—Brown.
70. *Euchloe ausonides palaeoreios* K. Johnson—Custer, Lawrence, Meade, Pennington.
71. *Euchloe olympia* W. H. Edwards—Bennett, Brookings, Brule, Butte, Campbell, Clay, Corson, Custer, Dewey, Fall River, Haakon, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Pennington, Perkins, Potter, Shannon, Stanley, Sully, Todd, Union, Yankton, Ziebach.
72. *Anthocharis sara julia* W. H. Edwards—Lawrence.
73. *Colias philodice* ssp.—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerault, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.

74. *Colias eurytheme* Boisduval—Aurora, Beadle, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
- 75a. *Colias alexandra alexandra* W. H. Edwards—Custer, Fall River, Jackson, Pennington.
- 75b. *Colias alexandra krauthii* Klots—Custer, Fall River, Lawrence, Pennington.
76. *Zerene cesonia cesonia* (Stoll)—Brookings, Butte, Charles Mix, Corson, Fall River, Gregory, Hughes, Minnehaha, Pennington, Roberts, Sanborn, Stanley, Union, Yankton.
77. *Phoebis sennae eubule* (Linnaeus)—Clay, Minnehaha, Union.
78. *Phoebis agarithe agarithe* (Boisduval)—Brookings, Minnehaha.
79. *Eurema daira daira* (Godart)—Minnehaha.
80. *Eurema mexicanum* (Boisduval)—Corson, Custer, Minnehaha, Pennington.
81. *Eurema lisa lisa* (Boisduval and Le Conte)—Brookings, Clay, Day, Hughes, Minnehaha, Union, Yankton.
82. *Eurema nicippe* (Cramer)—Minnehaha.
83. *Nathalis iole* Boisduval—Bon Homme, Brookings, Charles Mix, Clay, Custer, Day, Deuel, Fall River, Gregory, Hughes, Jackson, Lawrence, Lyman, Minnehaha, Roberts, Sanborn, Stanley, Turner, Union, Yankton.

### Family Lycaeidae

84. *Feniseca tarquinius tarquinius* (Fabricius)—Roberts.
85. *Lycaena phlaeas americana* Harris—Brown, Jackson, Meade.
86. *Gaeides xanthoides dione* (Scudder)—Bennett, Brookings, Brule, Buffalo, Charles Mix, Clay, Corson, Custer, Day, Deuel, Douglas, Fall River, Grant, Gregory, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Minnehaha, Pennington, Perkins, Potter, Shannon, Stanley, Sully, Todd, Tripp.
87. *Hylolycaena hyllus* (Cramer)—Beadle, Bennett, Brookings, Brule, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Edmunds, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Shannon, Spink, Sully, Todd, Tripp, Turner, Union, Yankton.
88. *Chalceria rubida longi* (K. Johnson and Balogh)—Butte, Custer, Harding, Lawrence, Meade, Pennington.
89. *Epidemia helloides* (Boisduval)—Bennett, Brookings, Brule, Butte, Clark, Custer, Day, Dewey, Haakon, Harding, Hughes, Jackson, Jones, Lawrence, Marshall, Meade, Mellette, Minnehaha, Pennington, Potter, Roberts, Shannon, Stanley, Todd, Tripp.
90. *Harkenclenus titus titus* (Fabricius)—Bennett, Bon Homme, Brookings, Brule, Charles Mix, Codington, Day, Deuel, Fall River, Grant, Gregory, Harding, Hughes, Lawrence, Marshall, Meade, Pennington, Potter, Roberts, Stanley, Sully, Todd, Tripp, Union, Walworth, Ziebach.
91. *Satyrium acidicum montanensis* (Watson and W. P. Comstock)—Beadle, Brookings, Brown, Kingsbury, Lawrence, Lyman, McCook, Meade, Pennington, Todd, Tripp.
92. *Satyrium edwardsii* (Grote and Robinson)—Roberts.
93. *Satyrium calanus falacer* (Godart)—Brule, Charles Mix, Day, Deuel, Lawrence, Meade, Minnehaha, Roberts, Sully, Tripp, Union.
94. *Satyrium caryaeorum* (McDunnough)—Lawrence.
95. *Satyrium liparops* ssp.—Day, Harding, Hughes, Jackson, Lawrence, Lyman, Minnehaha, Pennington.

96. *Mitoura siva siva* (W. H. Edwards)—Brule, Custer, Fall River, Haakon, Harding, Hughes, Jackson, Jones, Lyman, Meade, Mellette, Pennington, Shannon, Ziebach.
97. *Mitoura grynea grynea* (Hübner)—Union.
98. *Incisalia augustinus iroides* (Boisduval)—Custer, Lawrence, Meade, Pennington.
99. *Incisalia polia obscura* Ferris and Fisher—Custer, Lawrence, Pennington.
100. *Incisalia eryphon eryphon* (Boisduval)—Custer, Fall River, Harding, Lawrence, Meade, Pennington, Todd.
101. *Strymon melinus atrofasciatus* McDunnough—Bennett, Bon Homme, Brookings, Brule, Butte, Charles Mix, Clay, Custer, Davison, Day, Fall River, Gregory, Haakon, Harding, Hughes, Jackson, Lawrence, Lyman, McCook, Meade, Mellette, Minnehaha, Pennington, Shannon, Stanley, Sully, Todd, Tripp, Union, Yankton, Ziebach.
102. *Leptotes marina* (Reakirt)—Minnehaha, Pennington.
103. *Hemiargus isola alce* (W. H. Edwards)—Brookings, Butte, Clay, Codington, Custer, Day, Fall River, Haakon, Hamlin, Hanson, Harding, Hughes, Jones, Lawrence, Lyman, Marshall, Meade, Minnehaha, Pennington, Stanley, Sully, Todd, Tripp, Union, Yankton, Ziebach.
104. *Everes comyntas comyntas* (Godart)—Brookings, Brown, Campbell, Charles Mix, Clay, Codington, Custer, Davison, Day, Faulk, Grant, Gregory, Haakon, Hamlin, Harding, Hughes, Jackson, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Mellette, Minnehaha, Moody, Pennington, Potter, Roberts, Sully, Todd, Tripp, Union, Walworth, Yankton.
105. *Everes amyntula valeriae* Clench—Custer, Fall River, Harding, Lawrence, Pennington.
106. *Celastrina argiolus* ssp.—Beadle, Brookings, Brule, Clay, Codington, Custer, Davison, Day, Deuel, Dewey, Douglas, Fall River, Hanson, Harding, Hughes, Jerauld, Kingsbury, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Minnehaha, Moody, Pennington, Roberts, Shannon, Stanley, Union, Yankton.
107. *Glaucopsyche piasus daunia* (W.H. Edwards)—Custer, Harding, Lawrence, Pennington.
108. *Glaucopsyche lygdamus oro* (Scudder)—Butte, Campbell, Corson, Custer, Day, Dewey, Fall River, Harding, Hughes, Jackson, Jones, Lawrence, Marshall, Meade, Mellette, Pennington, Perkins, Shannon, Stanley, Sully.
109. *Lycæides melissa melissa* (W. H. Edwards)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hanson, Harding, Hughes, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Union, Walworth, Yankton, Ziebach.
110. *Plebejus saepiolus saepiolus* (Boisduval)—Custer, Fall River, Harding, Lawrence, Meade, Pennington.
111. *Icaricia icarioides lycea* (W. H. Edwards)—Custer, Harding, Lawrence, Pennington.
112. *Icaricia shasta minnehaha* (Scudder)—Lawrence, Pennington.
113. *Icaricia acmon lutzii* (dos Passos)—Bennett, Butte, Custer, Day, Fall River, Harding, Jackson, Lawrence, Meade, Mellette, Pennington, Perkins, Todd.
114. *Agriades rusticus rusticus* (W. H. Edwards)—Custer, Lawrence, Pennington.

### Family Riodinidae

115. *Apodemia mormo mormo* (C. and R. Felder)—Pennington.

### Family Libytheidae

116. *Libytheana bachmanii bachmanii* (Kirkland)—Brookings, Clay, Davison, Day, Minnehaha, Yankton.

## Family Heliconiidae

- 117 *Agraulis vanillae incarnata* (Riley)—Butte, Minnehaha, Pennington.

## Family Nymphalidae

118. *Euptoieta claudia* (Cramer)—Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clay, Codington, Custer, Davison, Day, Deuel, Dewey, Douglas, Fall River, Faulk, Grant, Hamlin, Hand, Harding, Hughes, Jackson, Jones, Kingsbury, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
119. *Speyeria cybele cybele* (Fabricius)—Brookings, Brule, Clay, Corson, Custer, Day, Deuel, Dewey, Faulk, Grant, Gregory, Hamlin, Harding, Hutchinson, Hyde, Jackson, Jones, Lawrence, Lincoln, Lyman, Marshall, McCook, Meade, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton.
120. *Speyeria aphrodite alcestris* (W. H. Edwards)—Brookings, Codington, Corson, Custer, Day, Deuel, Fall River, Grant, Haakon, Harding, Hughes, Lawrence, Marshall, McPherson, Meade, Minnehaha, Pennington, Perkins, Roberts, Shannon, Union, Walworth, Ziebach.
121. *Speyeria idalia* (Drury)—Beadle, Bennett, Bon Homme, Brookings, Brown, Brule, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Douglas, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hanson, Hughes, Hutchinson, Hyde, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
122. *Speyeria edwardsii* (Reakirt)—Bennett, Brule, Butte, Custer, Dewey, Fall River, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, McPherson, Meade, Mellette, Pennington, Shannon, Stanley, Sully, Todd.
123. *Speyeria coronis* ssp.—Custer, Fall River, Harding, Lawrence, Pennington.
124. *Speyeria zerene garretti* (Gunder)—Custer, Harding, Lawrence, Pennington.
125. *Speyeria callippe calgariana* (McDunnough)—Campbell, Custer, Fall River, Harding, Lawrence, McPherson, Meade, Pennington, Perkins, Ziebach.
- 126a. *Speyeria atlantis* ssp.—Custer, Lawrence, Pennington.
- 126b. *Speyeria atlantis lurana* dos Passos and Grey—Custer, Lawrence, Meade, Pennington.
127. *Speyeria mormonia eurynome* (W. H. Edwards)—Custer, Lawrence, Pennington, Shannon.
- 128a. *Clossiana selene myrina* (Cramer)—Brookings, Brown, Codington, Day, Deuel, Grant, Marshall, McPherson, Roberts.
- 128b. *Clossiana selene nebraskensis* (Holland)—Bennett, Mellette, Todd.
- 128c. *Clossiana selene sabulocollis* (Kohler)—Custer, Lawrence, Pennington.
129. *Clossiana bellona toddi* (Holland)—Brookings, Brown, Clay, Day, Deuel, Grant, Kingsbury, Marshall, Miner, Minnehaha, Moody, Roberts.
130. *Charidryas gorgone carlota* (Reakirt)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Charles Mix, Corson, Custer, Day, Dewey, Fall River, Faulk, Haakon, Harding, Hughes, Hutchinson, Hyde, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Pennington, Perkins, Shannon, Spink, Stanley, Todd, Tripp, Union, Yankton, Ziebach.
131. *Charidryas nycteis nycteis* (Doubleday and Hewitson)—Bennett, Brookings, Brule, Clay, Custer, Day, Deuel, Dewey, Gregory, Hyde, Lawrence, Marshall, Minnehaha, Pennington, Roberts, Todd, Yankton.
132. *Charidryas acastus* (W. H. Edwards)—Brule, Custer, Harding, Hughes, Stanley.
133. *Anthanassa texana texana* (W. H. Edwards)—Roberts.
134. *Phyciodes tharos tharos* (Drury)—Beadle, Bennett, Brookings, Brown, Brule, Buf-

- falo, Butte, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Fall River, Faulk, Grant, Gregory, Haakon, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
135. *Phyciodes pascoensis* W. G. Wright—Brookings, Custer, Day, Deuel, Grant, Harding, Jackson, Lawrence, Marshall, Pennington, Roberts.
  136. *Phyciodes batesii* (Reakirt)—Custer, Lawrence, Meade, Pennington.
  137. *Phyciodes pratensis camillus* W. H. Edwards—Fall River, Lawrence.
  138. *Phyciodes pallidus barnesi* Skinner—Custer, Fall River, Lawrence.
  139. *Euphydryas anicia bernadetta* Leussler—Butte, Custer, Fall River, Harding, Lawrence, Pennington.
  140. *Polygonia interrogationis* (Fabricius)—Bon Homme, Brookings, Brule, Charles Mix, Clay, Davison, Day, Deuel, Faulk, Grant, Hughes, Hyde, Lake, Lincoln, Marshall, Meade, Mellette, Minnehaha, Pennington, Roberts, Stanley, Todd, Turner, Union, Walworth, Yankton.
  141. *Polygonia comma* (Harris)—Brookings, Charles Mix, Clay, Custer, Day, Deuel, Dewey, Gregory, Hand, Hughes, Hutchinson, Hyde, Lincoln, Lyman, Marshall, Minnehaha, Potter, Roberts, Turner, Walworth, Yankton.
  142. *Polygonia satyrus* (W. H. Edwards)—Custer, Lawrence, Pennington.
  143. *Polygonia faunus* ssp.—Custer, Fall River, Lawrence, Meade, Pennington.
  144. *Polygonia zephyrus* (W. H. Edwards)—Custer, Fall River, Lawrence, Meade, Pennington.
  145. *Polygonia progne progne* (Cramer)—Brookings, Brule, Custer, Day, Fall River, Harding, Lawrence, Lincoln, Minnehaha, Pennington, Roberts, Yankton.
  146. *Nymphalis vau-album j-album* (Boisduval and Le Conte)—Brookings, Custer, Lawrence, Marshall, Meade, Pennington, Roberts.
  147. *Nymphalis californica californica* (Boisduval)—Brookings, Lawrence.
  148. *Nymphalis antiopa antiopa* (Linnaeus)—Bennett, Brookings, Brown, Brule, Butte, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Fall River, Faulk, Grant, Hand, Harding, Hughes, Hutchinson, Jackson, Jerauld, Jones, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Shannon, Stanley, Sully, Todd, Tripp, Turner, Union, Yankton, Ziebach.
  149. *Aglais milberti milberti* (Godart)—Brookings, Custer, Day, Deuel, Fall River, Harding, Hughes, Lawrence, Meade, Minnehaha, Pennington, Perkins, Shannon, Stanley.
  150. *Vanessa virginiensis* (Drury)—Brookings, Butte, Codington, Custer, Day, Deuel, Edmunds, Fall River, Jackson, Lawrence, Meade, Minnehaha, Pennington, Stanley, Turner, Union, Yankton.
  151. *Vanessa cardui* (Linnaeus)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
  152. *Vanessa annabella* (Field)—Pennington.
  153. *Vanessa atalanta rubria* (Fruhstorfer)—Beadle, Bennett, Brookings, Brown, Brule, Butte, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
  154. *Junonia coenia* Hübner—Aurora, Brookings, Brown, Brule, Charles Mix, Clay, Cod-

- ington, Custer, Day, Deuel, Edmunds, Lincoln, Minnehaha, Tripp, Turner, Union, Yankton.
- 155a. *Basilarchia arthemis arthemis* (Drury)—Brookings, Day, Marshall, Roberts.
- 155b. *Basilarchia arthemis rubrofasciata* Barnes and McDunnough—Brookings, Brown, Day, Deuel, Marshall, Minnehaha, Roberts.
- 155c. *Basilarchia arthemis astyanax* (Fabricius)—Brookings, Charles Mix, Clark, Clay, Codington, Davison, Day, Deuel, Grant, Hamlin, Hand, Hughes, Kingsbury, Lincoln, Marshall, Minnehaha, Moody, Roberts, Stanley, Turner, Union, Yankton.
156. *Basilarchia archippus archippus* (Cramer)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Charles Mix, Clark, Clay, Davison, Day, Deuel, Douglas, Fall River, Grant, Hand, Hanson, Hughes, Hutchinson, Hyde, Jackson, Jones, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Turner, Union, Yankton.
157. *Basilarchia weidemeyerii oberfoelli* (F. M. Brown)—Custer, Fall River, Harding, Jackson, Lawrence, Meade, Pennington, Perkins, Shannon, Todd.
158. *Mestra amymone* (Ménétriés)—Brookings.
159. *Anaea andria* Scudder—Shannon, Todd, Tripp.
160. *Asterocampa celtis celtis* (Boisduval and Le Conte)—Brookings, Brule, Buffalo, Charles Mix, Clay, Davison, Day, Fall River, Grant, Hughes, Hutchinson, Kingsbury, Lincoln, Marshall, McCook, Minnehaha, Roberts, Stanley, Todd, Tripp, Turner, Union, Walworth, Yankton.
161. *Asterocampa clyton clyton* (Boisduval and Le Conte)—Brookings, Day, Kingsbury, Lincoln, Minnehaha, Yankton.

### Family Satyridae

162. *Enodia anthedon* A. H. Clark—Day, Deuel, Lincoln, Marshall, Minnehaha, Roberts, Tripp.
163. *Satyrodes eurydice* ssp.—Bennett, Brookings, Corson, Day, Deuel, Grant, Hamlin, Hughes, Marshall, McCook, Moody, Roberts, Todd, Tripp.
164. *Megisto cymela cymela* (Cramer)—Aurora, Bennett, Bon Homme, Brookings, Brule, Charles Mix, Clark, Clay, Corson, Day, Deuel, Douglas, Faulk, Gregory, Harding, Hughes, Hutchinson, Jerauld, Lawrence, Lincoln, Marshall, Minnehaha, Roberts, Sanborn, Stanley, Sully, Tripp, Turner, Union, Yankton.
- 165a. *Coenonympha tullia* sp.—Aurora, Bennett, Brookings, Brule, Charles Mix, Codington, Corson, Davison, Day, Deuel, Dewey, Grant, Gregory, Haakon, Hamlin, Hughes, Jackson, Jerauld, Jones, Lake, Lyman, Marshall, McPherson, Mellette, Minnehaha, Perkins, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Tripp, Turner, Walworth, Ziebach.
- 165b. *Coenonympha tullia benjamini* McDunnough—Butte, Custer, Fall River, Harding, Lawrence, Meade, Pennington.
166. *Cercyonis pegala* spp.—Aurora, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
167. *Cercyonis meadii meadii* (W. H. Edwards)—Fall River, Harding, Lawrence, Meade, Pennington.
168. *Cercyonis oetus charon* (W. H. Edwards)—Custer, Harding, Lawrence, Meade, Pennington, Perkins.
169. *Neominois ridingsii ridingsii* (W. H. Edwards)—Pennington.
170. *Oeneis chryxus chryxus* (Doubleday and Hewitson)—Pennington.
171. *Oeneis uhleri* ssp.—Brookings, Brown, Butte, Custer, Day, Fall River, Harding, Lawrence, Marshall, McPherson, Pennington, Perkins, Potter, Roberts, Shannon.

## Family Danaidae

172. *Danaus plexippus* (Linnaeus)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Campbell, Charles Mix, Clark, Clay, Codington, Custer, Davison, Day, Deuel, Douglas, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton.

## ACKNOWLEDGMENTS

I acknowledge with sincere gratitude the assistance of Clifford D. Ferris, Paul A. Opler, and Ray E. Stanford for determination of specimens, distribution records, and reviewing portions of the manuscript. Special thanks to my young collecting companions, Abran and Joseph Kean, for their dedicated effort in obtaining numerous county and state records. Access to university collections was made possible by Burruss McDaniel, South Dakota State University, and James Schmulbach, University of South Dakota. Many additional records were kindly provided by the following: C. V. Covell, D. L. Eiler, G. Fauske, B. K. Harris, S. J. Kohler, W. Lacey, W. W. McGuire, J. S. Nordin, J. Oberfoell, R. L. Patterson, B. Preheim, J. M. Reiser, R. C. Rosche, K. Roever, R. A. Royer, D. Skadsen, D. Schmidt, S. M. Spomer, and E. G. Unkenholz.

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*Received for publication 10 April 1993; revised and accepted 15 February 1994.*