

Attachment 4



Date/State/County/ Site # 11 APRIL 2022

**USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet**

- Please use new form for each survey site and date.
- Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.
- For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: DNR  
 Town: \_\_\_\_\_ Site owner's name: DNR

3. Site selected because:  Active  Previously Active  Historically Active  Remote selection

4. Survey Conditions: Weather:

Temperature: 55° Wind: light Cloud cover: 15%  
 Comments: \_\_\_\_\_

5. AGS Survey:

- a. Walk-through survey: Start time: 10:30 AM . Start GPS point number: [REDACTED]
- b. GPS point numbers along path: [REDACTED]
- c. AGS present: Yes No. [REDACTED]
- d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other n/a
- f. Walk-through survey: End time: 11:15 AM . End GPS point number: \_\_\_\_\_
- g. AGS count: 0

6. Other butterfly species present: none observed

7. Site habitat: In your description on next page, please consider:

- a. General description of site. shale barren, narrow, steep slopes, becomes very forested up top
- b. Host plant name and description of its distribution. not abundant, scattered
- c. Nectar plant species in bloom and description of their distribution. spring beauty (abundant up top w/ PA sedge); low slopes have meadow rue + bleeding hearts.
- d. Map of survey path.
- e. Threats to area. public use (trash, trampling)
- f. Other comments.

Site habitat description and additional notes. Continue on back if needed.



Attachment 4 Date/State/County/ Site # 9 April, 25 April, 13 April MD Allegany  
 USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.  
 -Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.  
 -For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: Allegany  
 Town: [REDACTED] Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather:

Temperature: 48° Wind: 10-15 mph Cloud cover: 100%, light rain  
 Comments: site scouting

5. AGS Survey:

- a. Walk-through survey: Start time: 10:40 AM. Start GPS point number: \_\_\_\_\_  
 b. GPS point numbers along path: n/a  
 c. AGS present: Yes (No)  
 d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			/				
			n/a				

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other n/a  
 f. Walk-through survey: End time: 11:45 AM. End GPS point number: \_\_\_\_\_  
 g. AGS count: 0  
 6. Other butterfly species present: none observed on 9 APR. On 13 APR several sleepy duskywings, 1 clouded sulphur, + 1 silvery blue. On 25 APR many duskywings (not ID'ed), 1 azure, 2 Falcate orangetips (1♂, 1♀)

7. Site habitat: In your description on next page, please consider:

- a. General description of site. steep shale barren off [REDACTED]  
 b. Host plant name and description of its distribution. scattered, abundant  
 c. Nectar plant species in bloom and description of their distribution. meadow rue, bleeding hearts  
cutleaf toothwort, Saxifrage,  
birdsfoot violet  
 d. Map of survey path.  
 e. Threats to area.  
 f. Other comments. lots of bear scat!

Site habitat description and additional notes. Continue on back if needed.

A lot of standing dead trees + downed trees which birds are enjoying.  
Seems also like an unusual # of yellow jackets up here; look like queens  
seeking nest sites.



Attachment 4 Date/State/County/ Site # 11 April 2022, 25 APR 2022 MD Allegany  
 USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.
- Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.
- For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [redacted] State: MD County: Allegany  
 Town: [redacted] Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather:

Temperature: 58° Wind: light Cloud cover: hazy/sunny  
 Comments: [redacted]

5. AGS Survey:

- a. Walk-through survey: Start time: 11:50 AM Start GPS point number: [redacted]
- b. GPS point numbers along path: [redacted]
- c. AGS present: Yes  No
- d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
		n/a					

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other n/a
- f. Walk-through survey: End time: 1:10 PM End GPS point number: [redacted]
- g. AGS count: 0

6. Other butterfly species present: 1 mourning cloak, 7 silvery blues, 3 Falcate ← 11 APR. Similar orange tips (although as I write this I see silvery blues + orangetips obs on 25 APR w/ everywhere, so probably many more than 7 and 3...) also what I think many Falcates, were several sleepy duskywings (bigger than dreamies + palps didnt look long enough), duskies, + silvery blues.

7. Site habitat: In your description on next page, please consider:

- a. General description of site. reverse
- b. Host plant name and description of its distribution. patchy but abundant in several spots.
- c. Nectar plant species in bloom and description of their distribution. spring beauty + bittercress
- d. Map of survey path.
- e. Threats to area. wineberry, public use
- f. Other comments. reverse

Site habitat description and additional notes. Continue on back if needed.

It is not a barren but a hilltop that has been thinned. Directly behind the camp is a cleared area w/ abundant cinquefoil + spring beauty. As you head south to that edge, it is disappointing at first b/c the cinquefoil really becomes scarce + there is a lot of broomsedge + mullen, + a lot of thatch covering the ground. But when you get to the S edge of the hillside there is a bit more cinquefoil + less thatch. Also more PA sedge, bittercress, spring beauty.

Scarabs are flying all over + look like bees @ first glance. There are many bees all over the spring beauties. Falcate mangetips are flying; many silvery blues are nectaring in spring beauty + bittercress.

Although there is quite a lot of thatch, there are some openings in the thatch where cinquefoil is more abundant, particularly near trees, in areas of disturbance (nr. fallen trees), @ the south edge, + a bit to the N on the hilltop. There are areas in the thatch where cinquefoil is pushing its way up (reach!) but overall spring beauties + bittercress are a lot better at this.

25 APR - I also noticed today how much blooming cinquefoil there is in clearings where trees have been removed. In areas where you can see that 2-3 big trees were cut (+ obviously removed); there are huge patches of blooming cinquefoil. Still, even though there's a lot of blooming cinquefoil + sunlight this area doesn't feel like AGS habitat.



Attachment 4 Date/State/County/ Site # 12 APR, 22 APR MD Allegany  
 USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.  
 -Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.  
 -For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [redacted] State: MD County: Allegany  
 Town: [redacted] Site owner's name: [redacted]

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather: 22 APR

Temperature: 70's Wind: light Cloud cover: 10-15%

Comments: pretty optimal survey conditions.

5. AGS Survey:

a. Walk-through survey: Start time: 12:45 PM Start GPS point number: \_\_\_\_\_

b. GPS point numbers along path: \_\_\_\_\_

c. AGS present: Yes (No)

d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
		n/a					

e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing

Other n/a

f. Walk-through survey: End time: 1:40 PM End GPS point number: \_\_\_\_\_

g. AGS count: 0

6. Other butterfly species present: 2 Falcate ♀'s, 2 big whites that looked like cabbages but were not netted, many duskywings, 1 yellow sulphur in the distance that I couldn't net but looked large, 1 tiger swallowtail passing thru, all on 22 APR. On 11 APR all I saw were duskywings.

7. Site habitat: In your description on next page, please consider:

a. General description of site.

b. Host plant name and description of its distribution. Some decent patches but not terribly abundant.

c. Nectar plant species in bloom and description of their distribution. Birdfoot violet, PA sedge, Saxifrage,

d. Map of survey path.

spring beauties, bittercress.

e. Threats to area. multiflora rose, some mullein.

f. Other comments. Kate's Mountain Clover is here (15 clumps) on N part of dune where bisected

Site habitat description and additional notes. Continue on back if needed. by stream on rocky S-ish slope.

This was the only site I visited on 11 APR (+ the 9-13 APR) period where Cinquefoil was blooming. It is also the most open shale barren, at least of the ones I've been to. Same w/ birdfoot violet. Noticed all PA sedge was done blooming by 22 APR.

There were 2 areas selected; one to the south was larger + square + turned out to be a field w/ fescue + broomsedge, + it had lots of invasives including autumn olive + Jap. honeysuckle. But the more northern area was a neat little barren + very open. It is bisected by a creek bed that cuts it into 2 parts, a NW + SE section. The NW section has the KMC + very little broomsedge, + also has some multiflora rose + mullein near the bottom slope where the creek is. SE portion has a lot of broomsedge + also some rose + mullein - not terrible but could be an issue if left untreated. It doesn't help that there is an old roadbed or maintained trail that almost connects (but doesn't get all the way there) the square field + the nice barren; this trail has Jap honeysuckle + rose. So even though this is the most open barren I've been to, it feels like it has a heavy human footprint. There's redbud on the lower slope by the creek, lots of yarrow, + even though there is a lot of exposed shale there's a lot of grass on the periphery + the surrounding woods almost feels like a park.

KMC mostly on rocky south slope; 15 clusters about  $\frac{1}{3}$  of which had flowers. Took pics + 2 GPS points. There is vetch up here too but no silvery blues.



Attachment 4

Date/State/County/ Site # 10 April 2022

## USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

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 -For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:Observer Name and Affiliation: Jen Selfridge, MD DNR NHPEmail: jeanifer.selfridge@maryland.gov Phone: 443-223-5939Names and contact information of others present: n/a2. Location information:Site: [REDACTED] State: MD County: Allegany

Town: \_\_\_\_\_ Site owner's name: \_\_\_\_\_

3. Site selected because: Active Previously Active Historically Active Remote selection4. Survey Conditions: Weather:

Temperature: \_\_\_\_\_ Wind: \_\_\_\_\_ Cloud cover: \_\_\_\_\_

Comments: \_\_\_\_\_

5. AGS Survey:

a. Walk-through survey: Start time: \_\_\_\_\_ Start GPS point number: \_\_\_\_\_

b. GPS point numbers along path: \_\_\_\_\_

c. AGS present: Yes No.

d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			n/a				

e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
Other \_\_\_\_\_

f. Walk-through survey: End time: \_\_\_\_\_ End GPS point number: \_\_\_\_\_

g. AGS count: \_\_\_\_\_

6. Other butterfly species present: \_\_\_\_\_7. Site habitat: In your description on next page, please consider:

- General description of site.
- Host plant name and description of its distribution.
- Nectar plant species in bloom and description of their distribution.
- Map of survey path.
- Threats to area.
- Other comments.

Site habitat description and additional notes. Continue on back if needed.

? All 4 clearings inappropriate. Small, cleared + slightly trashed b/c they are close to the road. They look like old camp sites; one is just an old road bed. Not worth revisiting.



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- For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR MHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [redacted] State: MD County: Allegany  
 Town: \_\_\_\_\_ Site owner's name: DNR (some on private land)

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather:

Temperature: \_\_\_\_\_ Wind: \_\_\_\_\_ Cloud cover: \_\_\_\_\_  
 Comments: not appropriate habitat

5. AGS Survey:

- a. Walk-through survey: Start time: \_\_\_\_\_ Start GPS point number: \_\_\_\_\_
- b. GPS point numbers along path: \_\_\_\_\_
- c. AGS present: Yes (No)
- d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			<u>n/a</u>				

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
Other \_\_\_\_\_
- f. Walk-through survey: End time: \_\_\_\_\_ End GPS point number: \_\_\_\_\_
- g. AGS count: \_\_\_\_\_

6. Other butterfly species present:  
\_\_\_\_\_  
\_\_\_\_\_

7. Site habitat: In your description on next page, please consider: some cinquefoil along trail; not really good AGS habitat.
- a. General description of site.
  - b. Host plant name and description of its distribution.
  - c. Nectar plant species in bloom and description of their distribution.
  - d. Map of survey path.
  - e. Threats to area.
  - f. Other comments.

Site habitat description and additional notes. Continue on back if needed.

Attachment 4

Date/State/County/ Site # 10 APR 2022, 22 APR 2022

## USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.  
 -Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.  
 -For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: Allegany  
 Town: [REDACTED] Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection4. Survey Conditions: Weather:

Temperature: 51° Wind: light Cloud cover: 100% ↓ to 60%  
 Comments: [REDACTED]

5. AGS Survey:

- a. Walk-through survey: Start time: 11:30 AM. Start GPS point number [REDACTED]  
 b. GPS point numbers along path: several  
 c. AGS present: Yes (No)  
 d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			<u>n/a</u>				

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other n/a  
 f. Walk-through survey: End time: 1:20 PM. End GPS point number: [REDACTED]  
 g. AGS count: 0  
 6. Other butterfly species present: none observed (@ 4:00 on 22 APR observed 1 azure, 1 ♀ falcate, + 1 dusky. Too much Rubus + sedge, lots of cinquefoil + open areas but doesn't feel like a great site. Maybe it needs a burn.  
 7. Site habitat: In your description on next page, please consider:

- a. General description of site. recently cleared, open, bordered by mixed oak forest.  
 b. Host plant name and description of its distribution. Potentilla throughout - abundant.  
 c. Nectar plant species in bloom and description of their distribution. Amelanchier blooming. Some spring beauty, bittercress, PA sedge (Carex sp.)  
 d. Map of survey path.  
 e. Threats to area. Rubus not blooming but abundant.  
 f. Other comments. reverse

Site habitat description and additional notes. Continue on back if needed.

S Clearing similar to N Clearing, in sections. The N clearing looks a little more promising but honestly the only reason to check it again in 2023 is b/c cinquefoil is more abundant here than anywhere else.

This area is huge + cinquefoil is everywhere. It's not a shale barren but still has more ABS potential than any other site I've seen so far except for [REDACTED]

At start pt., mostly cinquefoil, broomsedge. Didn't see much else. Rubus is abundant but just starting to leaf out. In some places it will be an impenetrable thicket. Amelanchier is in bloom + scattered throughout. I took many coords + used them to map area.

Broomsedge is thick. Lots of thatch in some areas but cinquefoil is trying to come up thru it. As you head south you start to see more spring beauty + some bittercress. A lot of small birds are using this area; I saw junco's + sparrows. I suspect many leps will use this area.



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1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: Allegany  
 Town: \_\_\_\_\_ Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection4. Survey Conditions: Weather:

Temperature: 55° Wind: gusty Cloud cover: 25%  
 Comments: \_\_\_\_\_

5. AGS Survey:

a. Walk-through survey: Start time: 3:15 PM . Start GPS point number: \_\_\_\_\_.

b. GPS point numbers along path: \_\_\_\_\_

c. AGS present: Yes (No)

d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			<u>n/a</u>				

e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing

Other n/a

f. Walk-through survey: End time: 5:40 PM . End GPS point number: \_\_\_\_\_.

g. AGS count: 0

6. Other butterfly species present: none observed7. Site habitat: In your description on next page, please consider: See Reverse for description.


- General description of site.
- Host plant name and description of its distribution.
- Nectar plant species in bloom and description of their distribution.
- Map of survey path.
- Threats to area.
- Other comments.

Site habitat description and additional notes. Continue on back if needed.

I don't think grizzled skips are likely but Olympia marble may be.

Generally, while cinquefoil was present, it was not really abundant anywhere. There were a couple of good patches on both the [redacted] slopes [redacted], but they were not huge or common. There was however a lot of bittercress on the slopes (hairy? *Cardamine hirsuta*?); at least near the stream. On the E-facing slope there was a ton of mullein though, although the bittercress was still abundant, esp. close to the creek (steep banks) + near woods on S side of the Row. There is also a lot of cutleaf toothwort near the creek, some meadow rue right on the banks. Most of the slope was dominated by broomsedge + some Indian grass as well. This is where most of the cinquefoil was as well, + maybe there was too much grass for it to compete well. The S edge of the Row was very dry + covered in lichens, the N edge just didn't have much of anything.

Also of note, on both E + W facing slopes near the creek, there was a lot of PA sedge, yarrow, + some violets blooming. Also yellow toadflax coming up. Another very abundant plant (last years) kept keeping out to *Hypericum* (ask Chris).

Attachment 4  Date/State/County/ Site # 9 April, 25 April MD Allegany  
 USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

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 -Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.  
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1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: Allegany  
 Town: [REDACTED] Site owner's name: [REDACTED]

3. Site selected because: Active Previously Active Historically Active Remote selection4. Survey Conditions: Weather:

Temperature: 45° Wind: calm Cloud cover: 70%

Comments: purpose of visit was to assess site more so than survey butterflies

5. AGS Survey:

a. Walk-through survey: Start time: 8:40 AM. Start GPS point number: \_\_\_\_\_.

b. GPS point numbers along path: n/a

c. AGS present. Yes  No

d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method

e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing

Other \_\_\_\_\_

f. Walk-through survey: End time: 9:20 AM. End GPS point number: [REDACTED]

g. AGS count: 0

6. Other butterfly species present: none on 9 April. On 25 April saw a few duskywings + one white (not netted).

7. Site habitat: In your description on next page, please consider:

- General description of site. hardwood forest w/ Row, lots of sunny openings, pine towards PA,
- Host plant name and description of its distribution. Potentilla, common but not abundant.
- Nectar plant species in bloom and description of their distribution. meadow rue, scattered, birdsfoot violet + yellow violet
- Map of survey path.
- Threats to area. wineberry in Row + on western slope
- Other comments. not sure there is enough host plant to sustain AGS.

Site habitat description and additional notes. Continue on back if needed.

moss + lichen cover in much of the area. Habitat closer to the house has more potentilla; near PA border it gets very rocky + pine-dominated.



Attachment 4 Date/State/County/ Site # 11 APR, 12 APR, 22 APR, 5 MAY 2022 MD Allegany  
 USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.
- Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.
- For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: n/a

2. Location information:

Site: [REDACTED] State: MD County: Allegany  
 Town: \_\_\_\_\_ Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather:

Temperature: 61° Wind: light Cloud cover: 80% (on 11 APR)  
 Comments: cloudy, late in day but site scouting on 11 Apr


5. AGS Survey:

- a. Walk-through survey: Start time: 3:40 PM. Start GPS point number: [REDACTED]  
 b. GPS point numbers along path: ---  
 c. AGS present: Yes (No)  
 d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
			<u>n/a</u>				

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other n/a  
 f. Walk-through survey: End time: 4:30 PM. End GPS point number: \_\_\_\_\_  
 g. AGS count: \_\_\_\_\_
6. Other butterfly species present: Falcate orange tips, duskywings (not ID'd) on APR 11.  
Many dusks on 12 + 22 APR; also on 22 APR several whites + all that were netted were Falcates. On 5 May many dusks, azures, eastern-tailed blues, red-banded hairstreaks, tiger swallowtails, pipevines.
7. Site habitat: In your description on next page, please consider:
- a. General description of site. roadside barren w/ grassy hilltop.
  - b. Host plant name and description of its distribution. Cinquefoil up top but mostly on N + E edge - some
  - c. Nectar plant species in bloom and description of their distribution. good patches, scattered on slopes.
  - d. Map of survey path. (see descrip). ←
  - e. Threats to area. lots of grasses on hilltop, some garlic mustard on slope
  - f. Other comments.

Site habitat description and additional notes. Continue on back if needed.

In general the slope is dominated by spring beauty, bleeding hearts, toothwort, saxifrage, bittercress, PA sedge, claspleaf pennycress, violets, grasses/sedges coming in. Cinquefoil not really abundant anywhere. There is some on hill top, mostly east section + N woods edge to east, but scattered elsewhere on hilltop; also on east section 1 are violets, some Cladonia + bittercress, also spring beauty. Most of  hilltop dominated by grasses. ← Was able to better identify these on 5 May

(When they were larger) as *Bromus* sp. (looks like a couple different species), poverty grass (?) + Kentucky bluegrass. There's also a lot of Carolina rose. W edge has some big patches of *Lepidium* (peppergrass), + pale madwort (*Alyssum*). Also lots of yarrow up here.

I don't know that there is enough cinquefoil for AGS. Wonder if hilltop can be planted?



Attachment 4

Date/State/County/ Site # 25 APRIL 2022

**USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet**

- Please use new form for each survey site and date.
- Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.
- For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: Jen Selfridge, MD DNR NHP  
 Email: jennifer.selfridge@maryland.gov Phone: 443-223-5939  
 Names and contact information of others present: \_\_\_\_\_

2. Location information:

Site: \_\_\_\_\_ State: MD County: Allegany  
 Town: \_\_\_\_\_ Site owner's name: DNR

3. Site selected because: Active Previously Active Historically Active Remote selection

4. Survey Conditions: Weather:

Temperature: \_\_\_\_\_ Wind: windy Cloud cover: \_\_\_\_\_  
 Comments: \_\_\_\_\_

5. AGS Survey:

- a. Walk-through survey: Start time: \_\_\_\_\_ Start GPS point number: \_\_\_\_\_
- b. GPS point numbers along path: \_\_\_\_\_
- c. AGS present: Yes No.
- d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method
		n/a					

- e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
 Other \_\_\_\_\_
- f. Walk-through survey: End time: \_\_\_\_\_ End GPS point number: \_\_\_\_\_
- g. AGS count: \_\_\_\_\_

6. Other butterfly species present: late day survey, a few blues + duskywings, some cinquefoil but not a ton. I kept this as a site to survey again in 2023 but it is the least promising of those b/c even though its open, it doesnt have enough cinquefoil. It is an active Olympia warble site.

7. Site habitat: In your description on next page, please consider:

- a. General description of site.
- b. Host plant name and description of its distribution.
- c. Nectar plant species in bloom and description of their distribution.
- d. Map of survey path.
- e. Threats to area.
- f. Other comments.

Site habitat description and additional notes. Continue on back if needed.





Attachment 4

Date/State/County/ Site # 10 APR 2022 (N) 12 APR 2022 (S) → reverse

## USGS Appalachian Grizzled Skipper (AGS) Field Survey Data Sheet

- Please use new form for each survey site and date.  
 -Please take photos on smart phone with GPS points to map the site, characterize the habitat and to describe the host and nectar plant presence and distribution.  
 -For assistance with this form, refer to the Appalachian Grizzled Skipper (AGS) Field Survey Guidance.

1. Observer(s) information:

Observer Name and Affiliation: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Names and contact information of others present: \_\_\_\_\_

2. Location information:Site: \_\_\_\_\_ State: MD County: Allegany

Town: \_\_\_\_\_ Site owner's name: \_\_\_\_\_

3. Site selected because: Active Previously Active Historically Active Remote selection4. Survey Conditions: Weather:Temperature: 55° Wind: variable Cloud cover: 60%

Comments: \_\_\_\_\_

5. AGS Survey:a. Walk-through survey: Start time: 1:55 PM Start GPS point number: \_\_\_\_\_

b. GPS point numbers along path: \_\_\_\_\_

c. AGS present: Yes  No 

d. GPS point numbers for AGS and confidence level: Confident or Uncertain.

GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method	GPS number	Confidence and method

e. AGS behavior: Patrolling/Perching Feeding Puddling Basking Mating Ovipositing  
Other \_\_\_\_\_f. Walk-through survey: End time: 2:30 PM End GPS point number: \_\_\_\_\_

g. AGS count: \_\_\_\_\_

6. Other butterfly species present: \_\_\_\_\_7. Site habitat: In your description on next page, please consider:a. General description of site. Shale slope (steep), some exposed shale @ topb. Host plant name and description of its distribution. Polentilla scattered, not abundant, esp. up top. Morec. Nectar plant species in bloom and description of their distribution. common on lower slopes,d. Map of survey path. ↳ cutleaf foxtail + meadow rue mostlye. Threats to area. on lower slopes; spring beauty, PA sedge ~f. Other comments. a couple diff crosses up top + also in mid-lower slope,Site habitat description and additional notes. Continue on back if needed.See Reverse for South Barren description.

South Barren on 12 APR 2022 - slightly more cinquefoil  
than the North Barren but not a ton. PA sedge, spring beauty abundant.  
Saxifrage present, some bittercress mostly on lower slopes. A couple of  
duskywings flying @ the top. [REDACTED] Point  
also taken [REDACTED]

