

II. GR-10 TERRESTRIAL HABITAT CHECKLIST 12:57-(7pics)

IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**20%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. **(Pictures GR10-5, 6)**
Dominant plant, if known: **Cottonwood, tamarisk, and willow**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **> 12 in.**
5. Specify type of understory present, if known. Provide a photograph, if available.

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**50%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available. **Mulefat, tamarisk (Picture GR10-8)**
4. What is the approximate average height of the scrub/shrub vegetation? **2-5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Patchy**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map. **Arroyo/gulley cuts through site (Picture GR10-9)**
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Rodent burrows, bobcat, raccoon, canid scat (Picture GR10-2, 3)
Towhee, finches, sparrows
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

Possible plant stress



GR10-5



GR10-6



GR10-7



GR10-8



GR10-9



GR10-2



GR10-Stress1



GR10-Stress2



GR10-Stress3

IV. GR-10 AQUATIC HABITAT CHECKLIST-FLOWING SYSTEMS 11:55

Note Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is(are) present at the site? **River**
2. If known, what is the name of the waterbody? **Gila River**
3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)? **no**
4. What is the general composition of the substrate? Check all that apply.
Unknown possibly silt
5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?
**flat with grass cover, mulefat, and tamarisk and some ruderals and a little mesquite.
Possible acacia above (Pictures GR10-1, 2)**
6. Is the system influenced by tides? **No**
7. Is the flow intermittent? **Unknown** If yes, please note the information that was used in making this determination.
8. Is there a discharge from the site to the waterbody? **Unknown** If yes, please describe the discharge and its path.
9. Is there a discharge from the waterbody? **Unknown** if yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site.
10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:
30_ Width (ft.)
1__ Depth (ft.)
fast_ Velocity (specify units):
16.0 Temperature (depth of the water at which the reading was taken)
8.38 pH
11.09 Dissolved oxygen
0.04% Salinity
X__ Turbidity (turbid) (Secchi disk depth)
_____ Other (specify)
11. Describe observed color and area of coloration.
12. Is any aquatic vegetation present? **yes** If yes, please identify the type of vegetation present, if known.
Some fragmities upstream
13. Mark the flowing water system on the attached site map.
14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?
**Marsh wren, tree swallow, killdeer, mallard, towhee
Mammal scat, (bobcat, racoon, canid), horses (Picture GR10-2)**



GR10-1



GR10-2

II. GR-11 TERRESTRIAL HABITAT CHECKLIST 13:39

IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**35%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available. **(Picture GR11-5)**
Dominant plant, if known: **Willow, tamarisk, cottonwood**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **> 12 in.**
5. Specify type of understory present, if known. Provide a photograph, if available.
tamarisk (Picture GR11-6)

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**10%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
Visual estimate
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
tamarisk (Picture GR11-4)
4. What is the approximate average height of the scrub/shrub vegetation? **2-5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Sparse**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **yes no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: **Dense Sparse Patchy**

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **yes** If yes, identify and describe them below:
Wash/Gulley (Picture 11-7)
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Grasses
gopher burrows, raccoon scat (Picture GR11-8a)
Warblers, finches, vermilion flycatcher (pair), Cassins kingbird
4. Review the questions in Section I to determine id any additional habitat checklists should be completed for this site.



GR11-5



GR11-6



GR11-4



GR11-7



GR11-8a

IV. GR-11 AQUATIC HABITAT CHECKLIST-FLOWING SYSTEMS 13:30 (4pics)

Note Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is(are) present at the site? **River**
2. If known, what is the name of the waterbody? **Gila River**
3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)? **no**
4. What is the general composition of the substrate? Check all that apply.
Unknown possibly silt
5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?
flat with grass cover, ruderals, tamarisk, and mulefat (Pictures GR11-2, 3)
6. Is the system influenced by tides? **No**
7. Is the flow intermittent? **yes no** If yes, please note the information that was used in making this determination.
8. Is there a discharge from the site to the waterbody? **Unknown** If yes, please describe the discharge and its path.
9. Is there a discharge from the waterbody? **Unknown** if yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site.
10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:
25 Width (ft.)
?_ Depth (ft.)
fast_ Velocity (specify units):
17.9 Temperature (depth of the water at which the reading was taken)
8.64 pH
11.13 Dissolved oxygen
0.04% Salinity
X _____ Turbidity (turbid) (Secchi disk depth)
_____ Other (specify)
11. Describe observed color and area of coloration.
12. Is any aquatic vegetation present? **no**
13. Mark the flowing water system on the attached site map.
14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?
Small fish (gambusia)
Say's phoebe, black phoebe, American goldfinch, junco, marsh wrens



GR11-2



GR11-3

II. GR-12 TERRESTRIAL HABITAT CHECKLIST 07:53

IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**35%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Mixed**) Provide a photograph, if available.
Dominant plant, if known: **Mesquite, tamarisk (Photo GR12-4)**
4. What is the predominant size of the trees at the site? Use diameter at breast height. **6-12 in.**
5. Specify type of understory present, if known. Provide a photograph, if available.
Sparse lantana, grass (Photo GR12-1)

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes**
2. What percentage of the site is covered by scrub/shrub vegetation? (**10%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
Visual estimate
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
Mesquite (Photo GR12-2,3)
4. What is the approximate average height of the scrub/shrub vegetation? **2-5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation? **Sparse**

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
Tree swallow, American goldfinch, song sparrow, common raven
Mammal burrows (Photo GR12-5)
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR12-1



GR12-2



GR12-3



GR12-4



GR12-5

II. GR-13 TERRESTRIAL HABITAT CHECKLIST 08:21-

IIA. WOODED

1. Are there any wooded areas at the site? **yes** If no, go to Section IIB: Shrub/Scrub
2. What percentage of area of the site is wooded? (**75%** _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site. **Visual estimate**
3. What is the dominant type of vegetation in the wooded area? (**Evergreen**) Provide a photograph, if available. **(Photo GR13-3)**
Dominant plant, if known: **Tamarisk**
4. What is the predominant size of the trees at the site? Use diameter at breast height.
> 12 in. (13.8)
5. Specify type of understory present, if known. Provide a photograph, if available.
Tamarisk and downed vegetation (Photo GR13-1)

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? **yes** If no, go to Section IIC: Open Field
Tamarisk and downed vegetation
2. What percentage of the site is covered by scrub/shrub vegetation? (**80%** _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.
Visual estimate
3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.
Tamarisk and downed vegetation (Photo GR13-1)
4. What is the approximate average height of the scrub/shrub vegetation? **> 5 ft.**
5. Based on site observations, how dense is the scrub/shrub vegetation?
Dense

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? **yes no** If yes, please indicate the type below:
Prairie/plains Savannah Old field other (specify)
2. What percentage of the site is open field? (_____% _____ acres). Indicate the open fields on the site map.
3. What is/are the dominant plant(s)? Provide a photograph, if available.
4. What is the approximate average height of the dominant plant?
5. Describe the vegetation cover: Dense Sparse Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? **no** If yes, identify and describe them below:
2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.
3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?
American goldfinch, song sparrow
Gopher burrows, rabbits (Photo GR13-2)
4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.



GR13-1



GR13-2



GR13-3