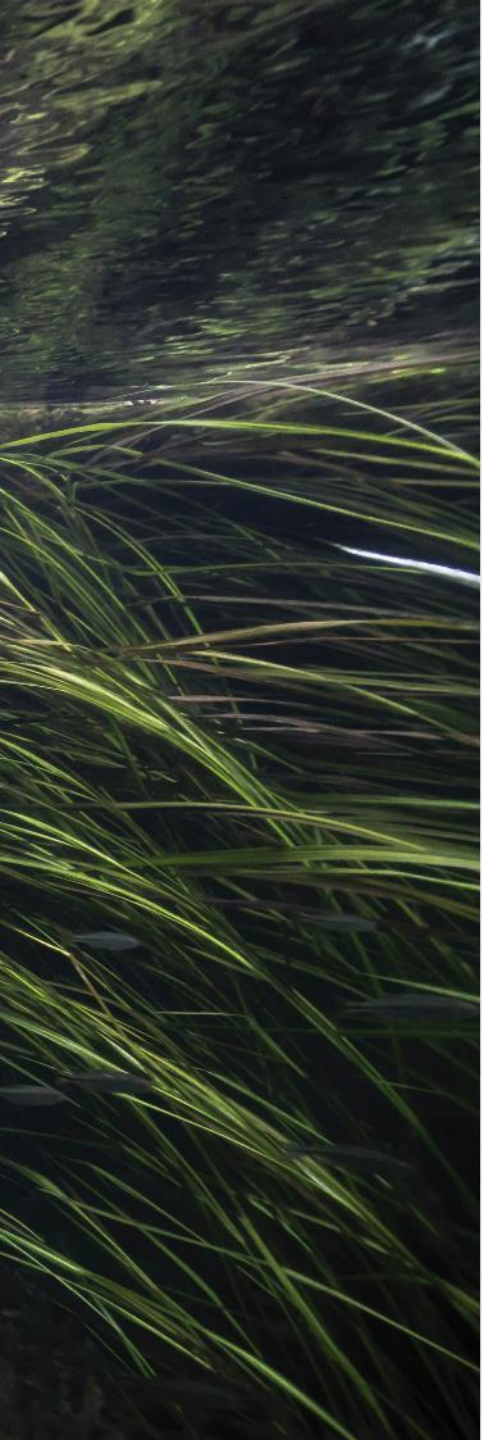


EAHCP Refugia Research Work Group



12.8.2020



EACHP Research Work Group

- EACHP Research Work Group created in 2017 to assist with aspects of the Applied Research and Refugia programs.
- *“The Work Group’s charge consists of...suggesting refinements to the methodology proposed for Refugia research projects”*
- Members:
 - Chad Norris
 - Tom Arsuffi
 - Floyd Weckerly
 - Conrad Lamon



EAHCP Research Work Group

2020 Refugia Work Plan:

1. Increasing survival rates of Peck's cave amphipod adults and F1 offspring (USFWS)
2. Continuation of increasing survival rates of Comal Springs dryopid beetle in captivity (BIOWEST)
3. Continuation of San Marcos salamander reproduction (USFWS)
4. Continuation of Comal Springs riffle beetle nutrition and survivorship research (USFWS)
5. Continuation of increasing pupation success in the Comal Springs riffle beetle in a captive setting (BIOWEST)
6. Continuation of examination of the life history of the Comal Springs riffle beetle (*Heterelmis comalensis*) and assessment of factors which affect pupation rates (TSU)
7. Continuation of evaluating three different long-term tagging methods in aquatic salamander species (USFWS)

A small fish, possibly a darter, is shown resting on a light-colored rock in a stream. The fish has a dark spot on its head and a red stripe along its side. The background is a blurred stream with more rocks and water.

EAHCP Research Work Group

2021 Refugia Work Plan:

1. Texas wild-rice genetic evaluation of both wild and refugia plants (USFWS)
2. Continuation of Comal Springs dryopid beetle captive culture and propagation (BIOWEST)
3. Continuation of San Marcos salamander reproduction (USFWS)
4. Increasing Comal Springs riffle beetle F1 adult production at the Refugia level (USFWS)
5. Continuation of examination of the life history of the Comal Springs riffle beetle (*Heterelmis comalensis*) and assessment of factors which affect pupation rates (TSU)

A small fish, possibly a darter, is shown resting on a light-colored rock in a stream. The fish has a dark spot on its head and a red stripe along its side. The background is a blurred stream with more rocks and water.

EAHCP Research Work Group

Today's meeting:

1. Texas wild-rice genetic evaluation of both wild and refugia plants (USFWS; 2021)
2. Continuation of examination of the life history of the Comal Springs riffle beetle (*Heterelmis comalensis*) and assessment of factors which affect pupation rates (TSU; 2019-2021)
3. Continuation of increasing pupation success in the Comal Springs riffle beetle in a captive setting (BIOWEST; 2019-2020)
4. Increasing Comal Springs riffle beetle F1 adult production at the Refugia level (USFWS; 2021-2022)