

Science and Habitat Restoration Work Group Meeting
November 21, 2019

Meeting Materials:

Agenda

Minutes

Draft MRGESCP RGSM CEM [read-ahead, draft]

MRGESCP SWFL and YBCU Draft Conceptual Models V.1 [read-ahead, draft]



Middle Rio Grande Endangered Species Collaborative Program

Est. 2000

Science and Habitat Restoration Work Group (ScW/HR)

November 21, 2019

9:00 AM – 12:00 PM

WEST Offices

8500 Menaul Blvd NE, 3rd Floor Conference Room

Meeting Agenda

9:00 – 9:10	Welcome, Introductions, and Agenda Review <ul style="list-style-type: none">➤ Decision: Approval of November 21, 2019 meeting agenda	<i>Program Support Team (PST)</i>
9:10 – 9:20	Review of October 17, 2019 ScW/HR Meeting <ul style="list-style-type: none">• Review Action Items➤ Decision: Approval of October 17, 2019 meeting minutes	<i>PST</i>
9:20 – 11:00	Conceptual Ecological Model Discussion <ul style="list-style-type: none">• Review models developed in the October 17, 2019 meeting for RGSM, SWFL, and YBCU• Brainstorm and discuss model design options• Discuss uncertainties identified in the development of the models• Discuss next steps, including project development	<i>Group Discussion</i>
11:00-11:10	Break	<i>Group Discussion</i>
11:10 – 11:45	ScW/HR 2020 Workplan <ul style="list-style-type: none">• Identify tasks to include in the 2020 work plan	<i>Group Discussion</i>
11:45-11:55	RGSM Genetics SOW Update	<i>PST</i>
11:55-12:00	Additional Items and Next Meeting Date <ul style="list-style-type: none">➤ Action Item: Determine agenda items for the next ScW/HR meeting➤ Action Item: Set date(s) for future meeting(s)	<i>Group Discussion</i>
12:00	Adjourn	



Middle Rio Grande Endangered Species Collaborative Program

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Science and Habitat Restoration Work Group (ScW/HR) Meeting Minutes

November 21, 2019

Location: Western Ecosystems Technology, Inc. (WEST)
8500 Manual Blvd NE, Albuquerque, NM 87112

Decisions:

- ✓ Approved November 21, 2019 meeting agenda
- ✓ Approved October 17, 2019 meeting minutes

Actions:

WHO	ACTION ITEM	BY WHEN
Program Support Team (PST)	Digitize progress made on conceptual ecological models (CEMs) for each species	December 9
PST	Populate the yellow-billed cuckoo (YBCU) spreadsheet to inform CEM development	December 9
PST and Terry McDill	Discuss criteria to designate variable weighting for CEMs for the avian species	December 9
Clint Smith and Lynette Giesen	Follow up with Vicky Ryan and Steven Ryan regarding avian CEMs	December 9
PST	Draft ScW/HR 2020 work plan based on tasks identified at the November 21 ScW/HR meeting	January 9
PST and ScW/HR Co-Chairs	Add time to discuss ongoing Rio Grande silvery minnow (RGSM) genetics work to January ScW/HR meeting agenda	January 9
All	Complete and present CEMs for RGSM, southwestern willow flycatcher (SWFL), and YBCU to the Adaptive Management Work Group (AMWG)	March 2020
All	Plan and participate in field trips	Throughout 2020

Next Meeting: December 9, 2019 from 9am – 12pm; every 2nd Thursday of the month thereafter through April 2020

Meeting Notes

Welcome, Introductions, and Agenda Review

- ✓ **Decision:** Approved November 21, 2019 meeting agenda

Review of October 17, 2019 ScW/HR Meeting Action Items and Minutes

- ✓ **Decision:** Approved October 17, 2019 meeting minutes

Conceptual Ecological Model Discussion

The ScW/HR split into groups and reviewed models developed for RGSM, SWFL, and YBCU during the October 17, 2019 meeting. Each group discussed model design options, identified uncertainties associated with each species, and discussed next steps, including project development.

ScW/HR 2020 Work Plan

The work group identified tasks for inclusion in the 2020 ScW/HR work plan, including:

- Refinement and finalization of CEMs for RGSM, SWFL, and YBCU by February 2020
- Presentation of finalized CEMs to the AMWG
- Prioritization of uncertainties identified in the CEM development process by March 2020 for the RGSM, SWFL, and YBCU
- Utilizing uncertainties identified in the CEM building process, the ScW/HR will submit scope of work (SOW) descriptions to the EC for review prior to April 2020
 - One signatory requested that after uncertainties are identified, the PST could pull together all of the SOW ideas related to those uncertainties for the group to consider
- Development of CEMs for Pecos sunflower (PESU) and New Mexico meadow jumping mouse (NMMJM) on or before July 2020.
 - It was suggested that experts may need to be brought in or contracted to complete these CEMs
- Submission of full SOWs to the EC for approval by August 2020
- Begin discussion of uncertainties to address in 2021 by September 2020
- Participate in the planning of the next Middle Rio Grande Endangered Species Collaborative Program (Program) Science Symposium
- Plan and participate in field trips for 2020
 - One group member suggested that field trips would provide learning opportunities for group members to experience what the river looks like in different conditions and at different times of the year.

Following the work plan discussion, the ScW/HR members identified a need to track new, ongoing, and completed projects to assist in understanding all that is happening in the Middle Rio Grande. The Program's annual report and Science Symposium were identified as excellent tools that assist in information dissemination.

RGSM Genetics SOW Update

An update was given on the status of the development of a single nucleotide polymorphism (SNP) panel for RGSM. Megan Osborne, University of New Mexico, will be presenting an update on this

work at the Program's Science Symposium in December, and will give an annual presentation to the ScW/HR in early 2020.

The group was asked if the genetics sub-group should meet to discuss next steps following the development of the SNP panel.

- The group decided to revisit this question in early 2020.

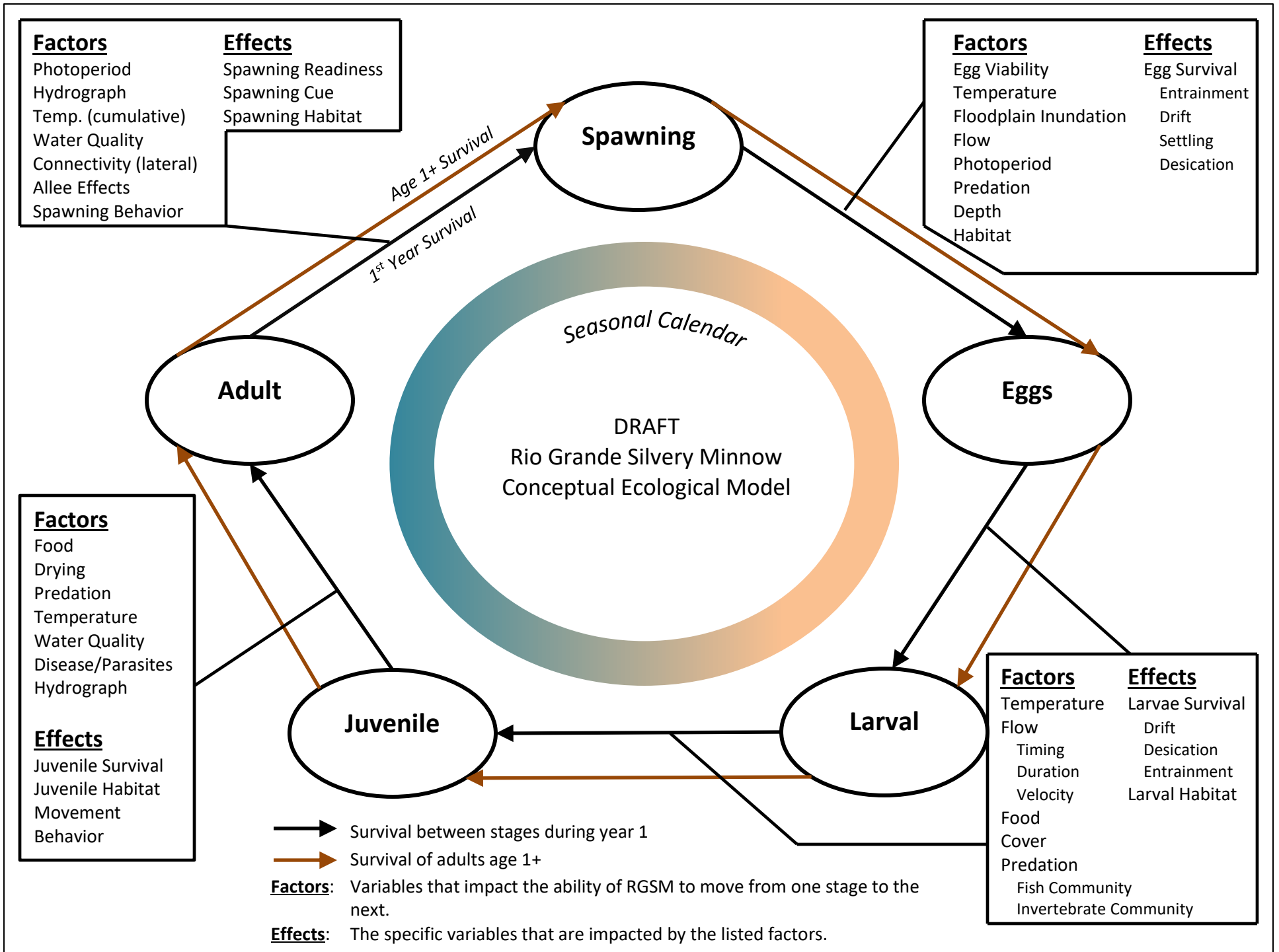
Additional Items and Next Meeting Date

Next meeting: December 9, 2019 from 9am – 12pm to discuss CEMs for RGSM, SWFL, and YBCU.

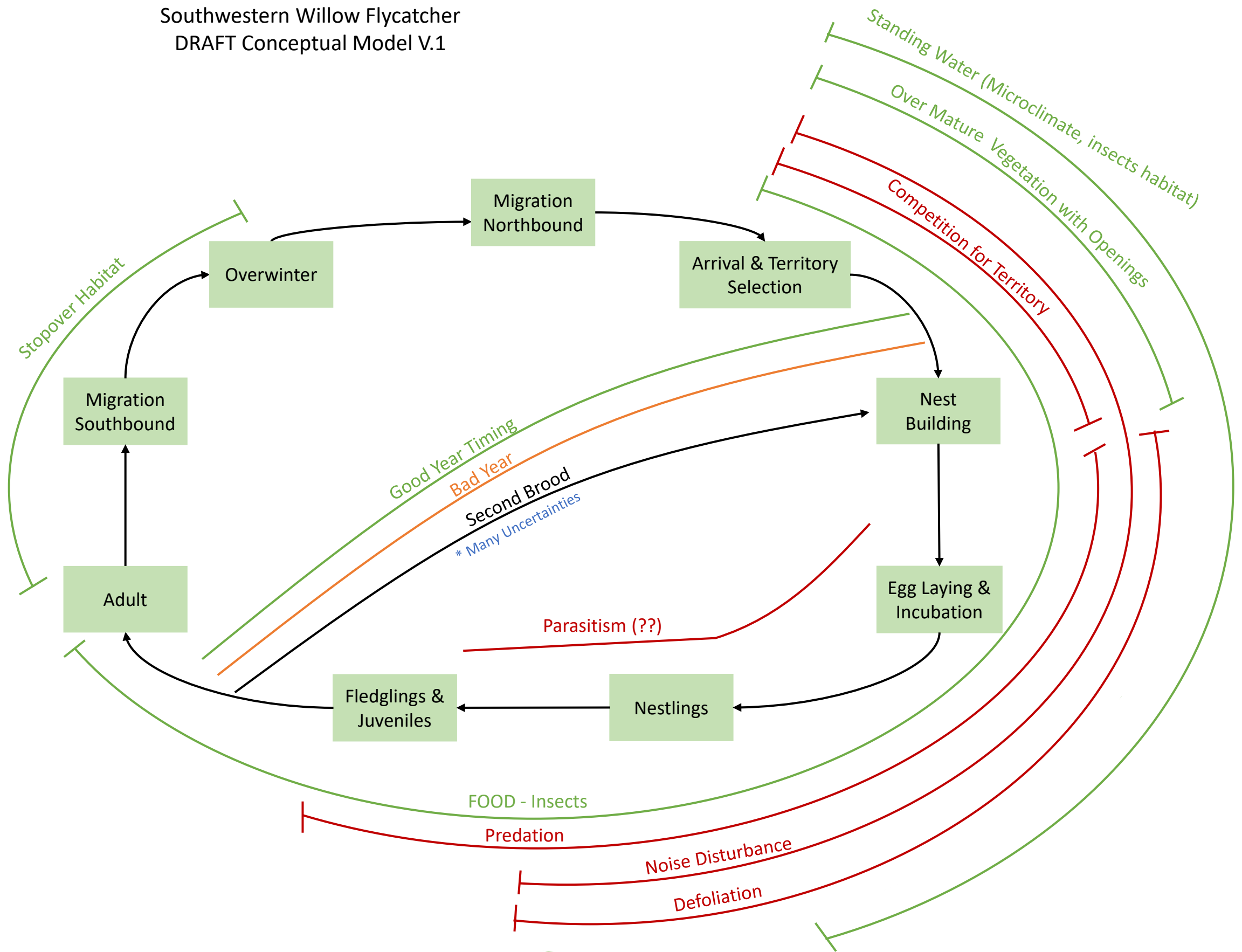
The first ScW/HR meeting of 2020 will be January 9th, with meetings taking place on the 2nd Thursday of the month in February, March, and April.

Meeting Participants

Participant	Organization
Amy Erickson	Audubon Society of New Mexico
Anne Marken	Middle Rio Grande Conservancy District
Ara Winter	Bosque Ecological Monitoring Program
Ashlee Rudolph	U.S. Bureau of Reclamation
Ashley Tanner	Program Support Team
Aubrey Harris	U.S. Army Corps of Engineers
Clint Smith	U.S. Fish and Wildlife Service
Dana Price	U.S. Army Corps of Engineers
Debbie Lee	Program Support Team
Grace Haggerty	NM Interstate Stream Commission
Kiara Takacs	Program Support Team
Lynette Giesen	U.S. Army Corps of Engineers
Meaghan Conway	NM Department of Game and Fish
Mick Porter	U.S. Army Corps of Engineers
Mike Marcus	Assessment Payers Association
Mo Hobbs	Albuquerque and Bernalillo County Water Utility Authority
Nathan Schroeder	Pueblo of Santa Ana
Ondrea Hummel	TetraTech
Trevor Birt	NM Interstate Stream Commission



Southwestern Willow Flycatcher
DRAFT Conceptual Model V.1



Yellow-billed Cuckoo
DRAFT Conceptual Model V.1

