

**0 Langley Road, Avon, MA**

**1/26/2022**

*Control of Invasive Species*

Invasive species observed on site include Japanese knotweed, garlic mustard, bittersweet and mile a minute vine.

<b>Species</b>	<b>Treatment</b>	<b>Time Frame</b>
Japanese knotweed	5cc of >40% glyphosate (Roundup) injected in the lower stem between the 1 <sup>st</sup> and 2 <sup>nd</sup> node within upland areas. Aquamaster herbicide in areas adjacent to the wetlands	June and late August/early September
Garlic Mustard	Hand pulled or 1-2% glyphosate (Roundup) dabbed with herbicide applicator.	Hand pulled prior to seed set* chemical anytime.
Asian Bittersweet	Cut stems at 2 inches and treat cut with >40% glyphosate (Roundup).	Anytime
Mile-a-minute Vine	Repeated mowing/ hand pulling through the season to keep the plant from flowering and setting seed. Foliar herbicide application.	Hand pulled prior to seed set* chemical anytime.

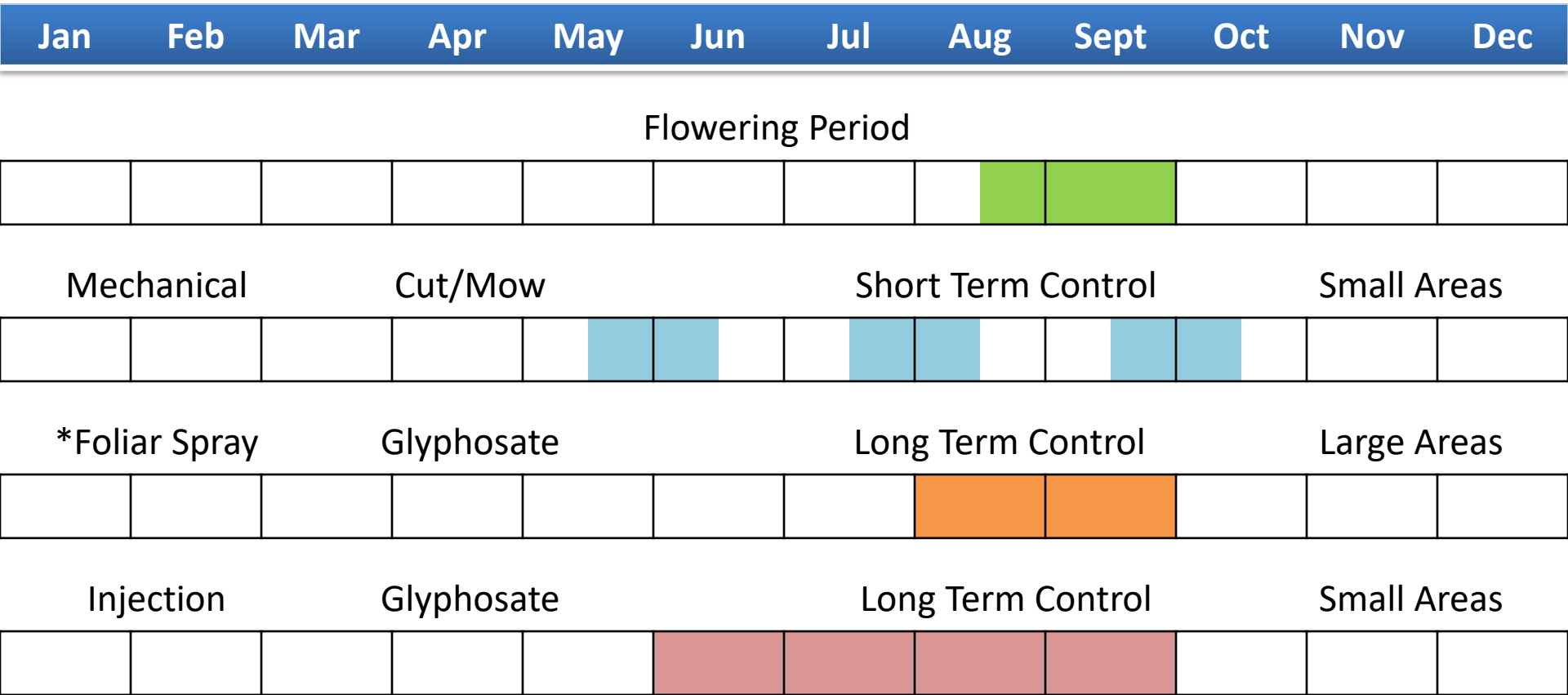
**Disposal**

Non-woody vegetation will be bagged, set in the sun to bake, and then sent to a trash landfill.

**Tree Planting and Naturalization**

Trees will be planted according to Buffer Zone Restoration Plan designed and supervised by *5 Wetlands*.

# Japanese Knotweed *Polygonum cuspidatum*



\*Most effective management technique(s)

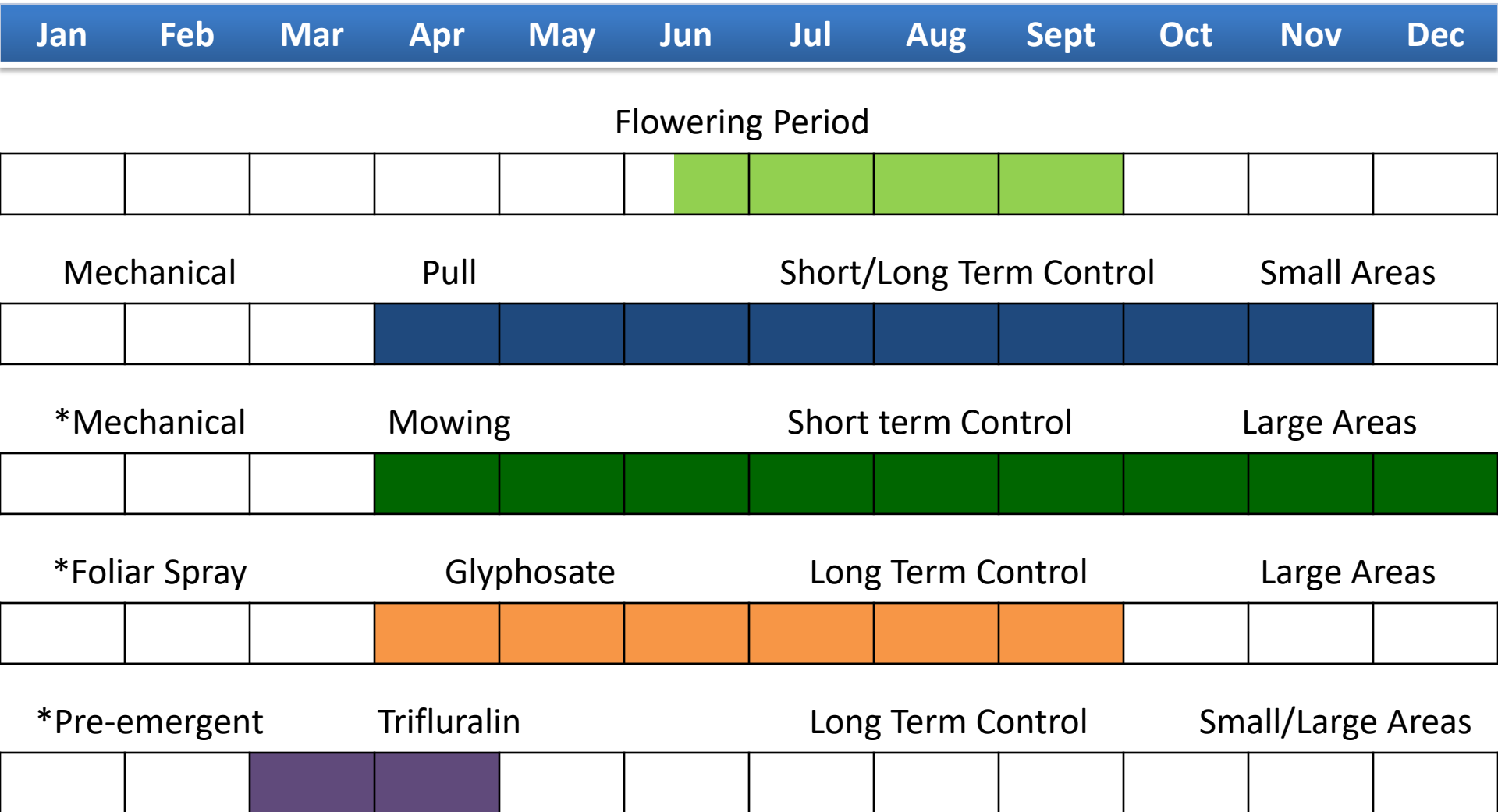
Notes: Foliar spray is most effect for Japanese Knotweed during flowering, care should be taken not to spray during peak pollinator hours.

Disposal: Japanese knotweed cuttings readily root, even small stems, do not compost.

Tips: Stem fragments will readily root, clean off equipment before leaving management site

# Mile-a-Minute Vine

*Persicaria perfoliata*



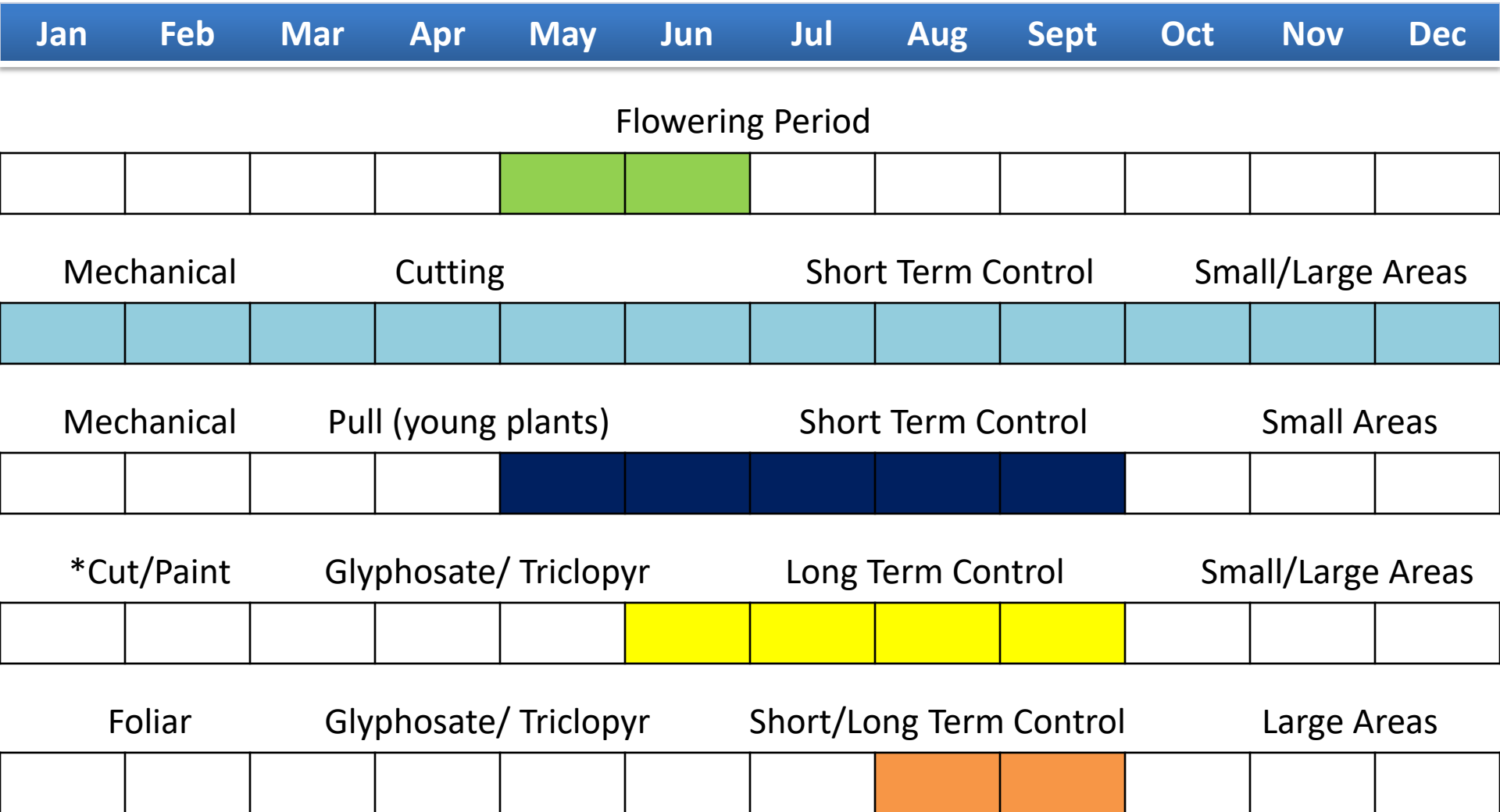
\*Most effective management technique(s)

Notes: Pulling early in the season, before flowering, can reduce the population considerably.

Disposal: Leave bagged plants on site to allow the weevils to pupate and fly away.

Tips: Return to sites every year to evaluate population size.

# Oriental Bittersweet *Celastrus orbiculatus*



\*Most effective management technique(s)

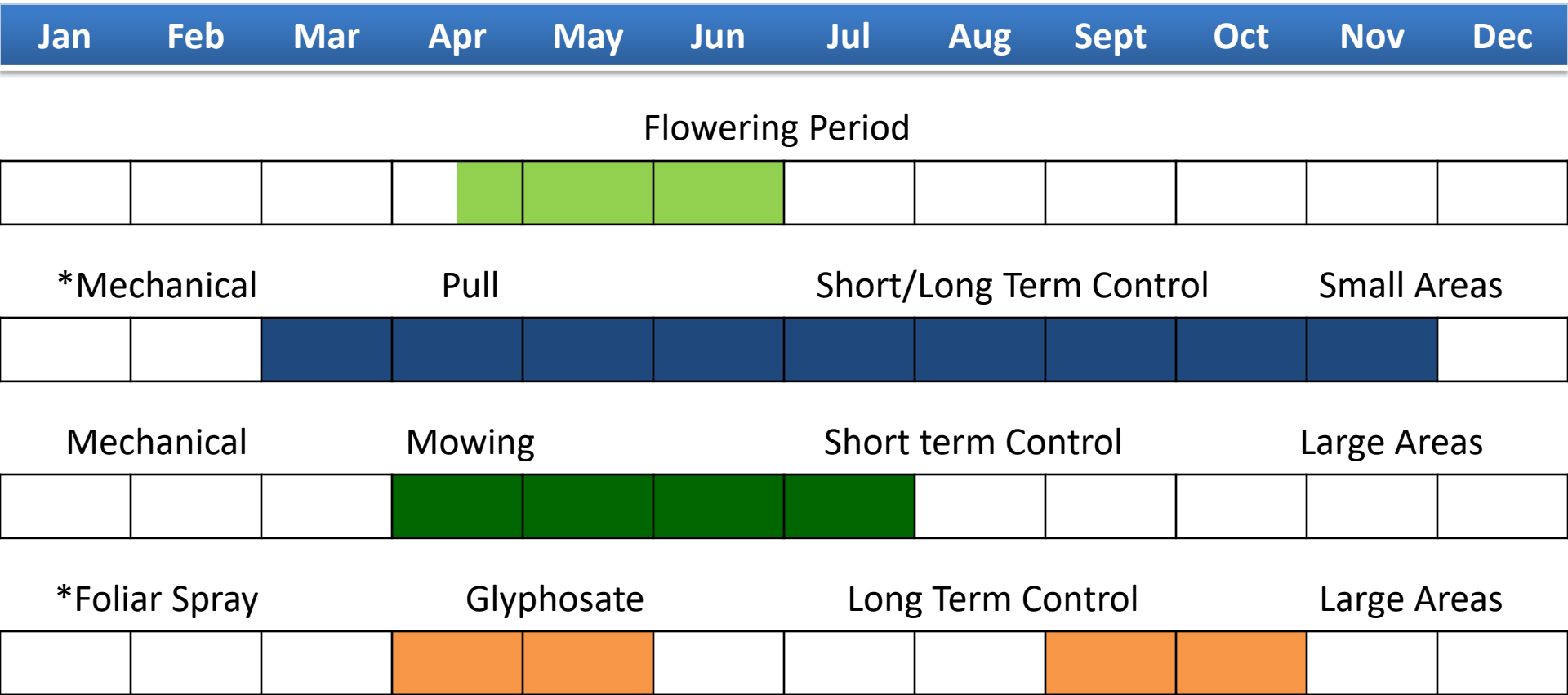
Notes: Cutting bittersweet stems stimulates new growth, follow-up is necessary.

Disposal: Bittersweet can be left to compost on site if fruit isn't present/mature.

Tips: Don't rip down cut stems of bittersweet as it may damage the tree.

# Garlic Mustard

*Alliaria petiolata*



\*Most effective management technique(s)

Notes: Pull second year plants in the spring months and the first year plants in the fall.

Disposal: Leave plants without flowers on site after pulling.

Tips: Pull early in the season before flowers begin to elongate.