

Washington Invasive Ranking System

Washington Natural Heritage Program

Crataegus monogyna var. *monogyna* (English Hawthorn)

Assessed by

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Ecological Impact Rank: **High** (78)

Confidence: **High** (67)

Management Difficulty Rank: High (84)

Confidence: High (100)

Biological Characteristics of Invasiveness: High (76)

Confidence: High (67)

Concern Related to Distribution and Abundance: High (87)

Confidence: High (80)



Photo Credit: Dr. Amadej Trnkoczy 2007, used under Creative Commons license (CalPhotos, 2024).

Ranking Notes

Rapid assessment only, based primarily on professional expertise.

Legal Listings

[Washington State Weed Board](#): Class C

[Washington Invasive Species Council](#): No

Section 1: Distribution and Abundance

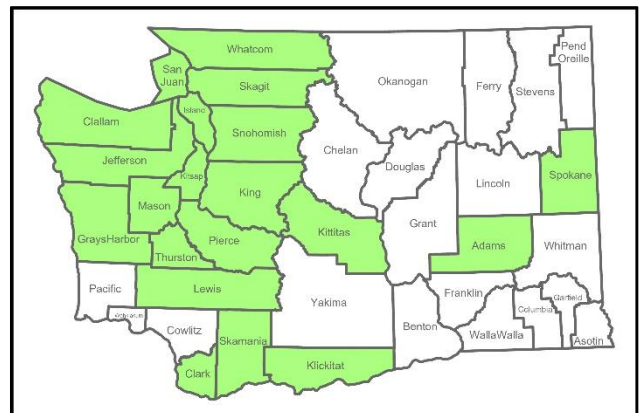


Figure 1. Distribution of counties where *Crataegus monogyna* var. *monogyna* has been documented in Washington State (CPNWH, 2023; EDDMapS, 2023; iNaturalist Contributors, 2023).

Q1: Current Range Size in Washington

Rating: High

Confidence: High

This taxa is found in 51% of counties in Washington (CPNWH, 2023; EDDMapS, 2023; iNaturalist Contributors, 2023).

Source: Herbarium records and other observations

Q2: Current Trend in Total Range

Rating: High

Confidence: High

Source: Professional expertise

Q3: Proportion of Potential Range Currently Unoccupied

Rating: Low

Confidence: High

Source: Professional expertise

Q4: Local Range Expansion or Change in Abundance

Rating: Moderate

Confidence: Moderate

Source: Professional expertise

Q5: Diversity of Ecosystems Invaded

Ecosystem types: Forest & Woodland, Grassland & Shrubland, Emergent Open Wetland, Forested Wetland

Rating: High

Confidence: Moderate

Source: Professional expertise

Section 2: Biological Characteristics

Q6: Aggressive Mode of Reproduction

Rating: Yes

Confidence: Moderate

Source: Professional expertise

Q7: Innate Potential for Long-Distance Dispersal

Rating: Yes

Confidence: High

Source: Professional expertise

Q8: Potential to be Spread by Human Activities

Rating: Yes

Confidence: High

Source: Professional expertise

Q9: Allelopathy

Rating: Unknown

Confidence: Not Rated

Source:

Q10: Competitive for Limiting Abiotic Factors

Rating: No

Confidence: Moderate

Source: Professional expertise

Q11: Growth Form

Rating: Yes

Confidence: High

Source: Professional expertise

Q12: Germination Requirements

Rating: Yes

Confidence: Moderate

Source: Professional expertise

Q13: Invasiveness of Other Plants in Genus

Rating: No

Confidence: High

Crataegus phaenopyrum and *C. laevigata* occasionally naturalize in Washington, but are generally not considered invasive (University of Washington Herbarium, 2018).

Source: Professional Expertise

Q14: Shade Tolerance

Rating: Moderate

Confidence: High

Source: Professional expertise

Q15: Disturbance Tolerance

Rating: Yes

Confidence: High

Source: Professional expertise



Q16: Propagule Persistence

Rating: >10 years

Confidence: Moderate

Source: Professional expertise

Q17: Palatability

Rating: No

Confidence: Low

Prominent thorns are likely to deter herbivory to some extent, but coppiced plants have been observed, indicating some degree of palatability.

Source: Professional expertise

Section 3: Ecological Impact

Q18: Impact on Ecosystem Abiotic Processes

Abiotic Processes: Geomorphology, Hydrology, Light availability

Rating: Moderate

Confidence: Moderate

Source: Professional expertise

Q19: Impact on Ecosystem Structure

Rating: High

Confidence: High

Source: Professional expertise

Q20: Impact on Ecosystem Composition

Rating: High

Confidence: High

Source: Professional expertise

Q21: Impact on Particular Native Species

Rating: Insignificant

Confidence: Low

Source: Professional expertise

Q22: Observed Ability to Invade Undisturbed Ecosystems

Rating: Moderate

Confidence: Moderate

Source: Professional expertise

Q23: Observed Ability to Invade Naturally Disturbed Ecosystems

Rating: Yes

Confidence: High

Source: Professional expertise

Section 4: Management Difficulty

Q24: General Management Difficulty

Rating: High

Confidence: High

Source: Professional expertise

Q25: Minimum Time Commitment

Rating: High

Confidence: High

Source: Professional expertise

Q26: Impacts of Management on Native Species

Rating: Moderate

Confidence: High

Source: Professional expertise

Q27: Inaccessibility of Invaded Areas

Rating: Moderate

Confidence: Moderate

Source: Professional expertise

Q28: Sociopolitical Implications of Management

Rating: Moderate/Low

Confidence: High

Source: Professional expertise

Additional Comments

None

References

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