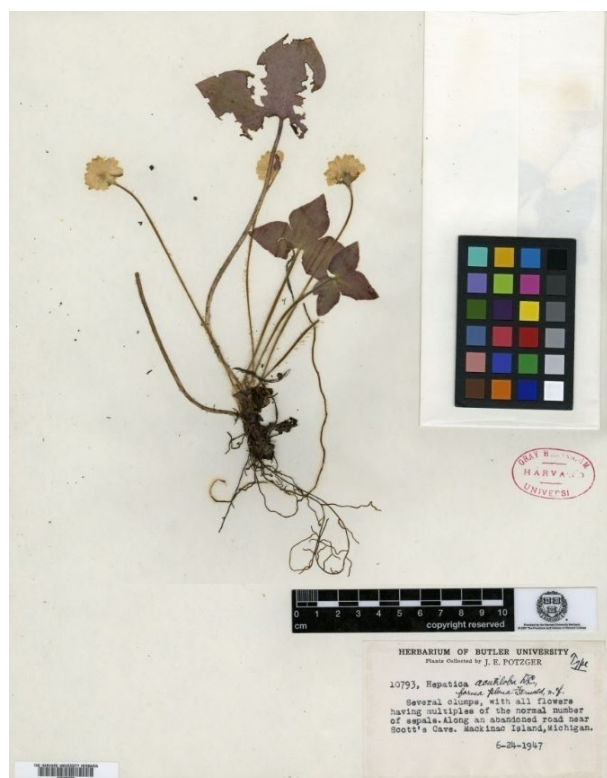


****Hepatica americana* var. *acuta* f. *plena***
Double Flowered Sharp-lobed Hepatica
Mark W. Simonis, November, 2023



The natural occurring fully double/filled flowering form (doubles) of **Hepatica americana* var. *acuta*, Sharp-lobed hepatica has historically been considered very rare across its natural North American range with only a handful ever found and recorded.



HARVARD UNIVERSITY	
Harvard University Herbaria & Libraries	
Index of Botanical Specimens	
Classification	Ranunculaceae: Hepatica
Harvard University Herbaria Barcode(s)	00038309
Type Status	Type
Collector	J. E. Potzger
Collector number	10793
Country	United States of America
State	Michigan
Geography	North America: US and Canada (Region): United States of America: Michigan
Locality	Along an abandoned road near Scott's Cave, Mackinac Island
Date Collected	1947-06-24
GUID	http://purl.oclc.org/net/edu.harvard/huh/guid/uuid/b1777c0-1e92-4c25-896d-6464436dabfc
Harvard University Herbaria Barcode	00038309
Herbarium	GH The Gray Herbarium (GH), GH00038309
Family	Ranunculaceae
Type Status	Type
Type of	<i>Hepatica acutiloba</i> f. <i>plena</i> Fernald
Determination Remarks	Verified by Fernald, 1947
Taxon Reference	(for <i>Hepatica acutiloba</i> f. <i>plena</i> Fernald) <i>Rhodora</i> 1947. 49: 216.
Sex	not determined
Phenology	Flower
Preparation Type	Sheet
Preparation Method	Pressed

Rhodora 1947. 49: 216

216 Rhodora [Acotse]

TWO NEW FORMS.—

HEPATICACUTILOBA DC., forma plena, f. nov. sepalis numerosissimis albidis.—MICHIGAN: along an abandoned road near Scott's Cave, Mackinac Island, June 24, 1947, J. E. Potzger, no. 10,793 (type in Herb. Gray).

This "double-flowered" form, sent by Professor John E. Potzger, has the stamens and apparently the carpels all changed to white sepals. Professor Potzger writes that several clumps were noted, all of their flowers of uniform character.

**Hepatica acutiloba* f. *plena* Fernald, Sharp-lobed hepatica found in Michigan in 1947.

Historically there had been several doubles found in the wilds of North America. But it appears that of those there is only one commonly known in cultivation today, and that is 'Louise Koehler' from Minnesota. Other older doubles noted in hepatica literature include 'Sanford' (Michigan), 'Elkin's Double' (Michigan), and 'Eco White Fluff' (Georgia).

In recent years there has been some additional doubles found in Tioga County, Pennsylvania, USA. 'Tioga' pictured above was one of those discovered in 2016. And in 2022-23 an entire "swarm" of thirty-two plus doubles was discovered there as well (David Hand)! With notable variation of the form and various colors (white, pink, yellow, and blue) these have been collectively named the 'Tioga Swarm'. Many of these northcentral Pennsylvania doubles are currently growing at Longwood Gardens in Kennett Square, Pennsylvania, USA.

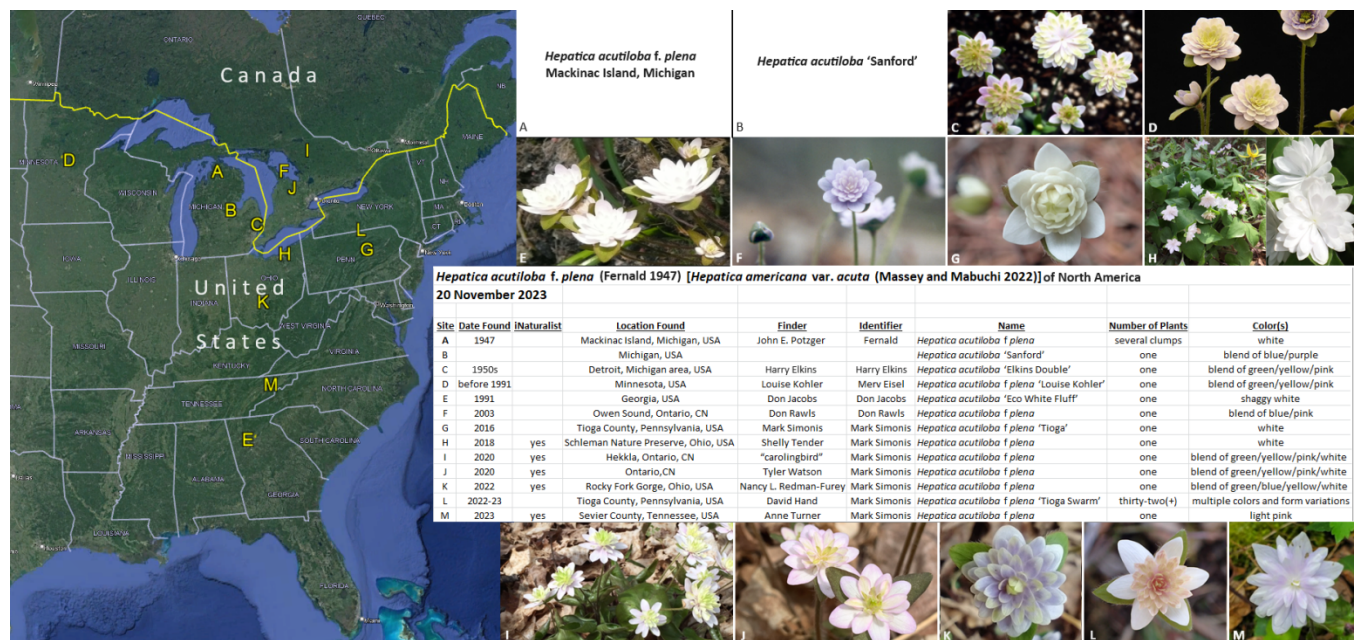
Here are a few from that 'Tioga Swarm':





And with the advent of iNaturalist (with more folks out there searching) more doubles are being found almost on an annual basis. A 2023 iNaturalist review of Sharp-lobed hepatica (still **Hepatica acutiloba* in iNaturalist) found five doubles out of about nineteen thousand Sharp-lobed hepatica posts.

Here is a summary of all the doubles that have been found in North America:



Note on naturally occurring fully double/filled (both petaloid stamens and petaloid pistils) flowering Hepatica – For all of the *Hepatica* species/varieties found across the planet there is only one for which doubles are historically relatively common. And that is *Hepatica japonica* var. *nipponica* f. *magna* found only on the west side of Japan (John Massey and Tamoo Mabuchi 2022). For all others naturally occurring doubles had been historically rarely found. But in recent years in Europe there have been an amazing numbers of *Hepatica nobilis* doubles found in Austria, Bavaria (Germany), Gotland (Sweden), and Oeland (Sweden) (Jürgen Peters 2023). For some species/varieties natural occurring doubles have never been

found as is the case for the other North American species/variety *Hepatica americana* var. *americana* (John Massey and Tamoo Mabuchi 2022), Round-lobed hepatica.

Hepatica Species and Varieties (Massey and Mabuchi 2022):

North America:

Hepatica americana var. *americana*
Hepatica americana var. *acuta*

Europe:

Hepatica nobilis
Hepatica nobilis var. *glabrata*
Hepatica nobilis var. *pyrenaica*
Hepatica transsilvanica

Asia:

China -

Hepatica henryi
Hepatica yamatutai
Hepatica asiatica

Korea -

Hepatica asiatica
Hepatica insularis
Hepatica maxima

Central Asia –

Hepatica falconeri

Japan -

Hepatica japonica
Hepatica japonica var. *nipponica*
Hepatica japonica var. *pubescens*

* Synonyms for North America's Sharp-lobed hepatica:

Anemone acuta Vail ex Britton

***Anemone acutiloba* Laws**

Anemone hepatica var. *acuta* (Pursh) Pritz.

Hepatica acuta Britton

Hepatica acutiloba f. *albiflora* Ralph Hoffm.

Hepatica acutiloba f. *diversiloba* Raymond

Hepatica acutiloba f. *plena* Fernald

Hepatica acutiloba f. *rosea* Ralph Hoffm.

Hepatica acutiloba var. *variegata* Farw.

Hepatica hepatica var. *albiflora* Farw.

Hepatica nobilis f. *acutiloba* Beck

Hepatica nobilis f. *albiflora* (Ralph Hoffm.) Steyererm.

Hepatica nobilis f. *plena* (Fernald) Steyererm.

Hepatica nobilis f. *rosea* (Ralph Hoffm.) Steyererm.

Hepatica nobilis var. *acuta* (Pursh) Steyererm.

Hepatica triloba var. *acuta* Pursh

Hepatica triloba var. *acutiloba* (DC.) R. Warner

Hepatica triloba var. *acutiloba* (DC.) Warne