

Table S1. Summary of descriptions about *Vaccinium uliginosum* populations in Figure 1.

Figure cell	Descriptions
A	A grove with fruit formation in a population in wetland of Heilongjiang.
B	An individual with fruit setting from a population in a hardwood forest in Heilongjiang
C	An individual with fruit setting from a population in a pine forest in Jilin
D	From online sources: https://www.tropengarten.de/Pflanzen/vaccinium-uliginosum.html
E	

Table S2. Details in questionnaires used in a survey towards managers of prefecture forest bureaus in Jilin and Heilongjiang provinces, Northeast China.

Question order (Qo)	Category I question	Category II question
1	Do any <i>Vaccinium uliginosum</i> populations occur in montane forests	Yes: Please move forward to Qo 2 No: Please transfer to Qo 5
2	Where do <i>V. uliginosum</i> populations occur?	Please provide: (1) coordinate of stand; (2) name of stand; (3) name of nearest village/town name
3	What exactly was the occurrence estimated to be?	Please transfer to Qo 4: (1) no more than 60%; Please move forward to Qo 5: (2) 60-80%; (3) approximately 80% or more
4	Do you know other places that have high occurrence of <i>V. uliginosum</i> stands	Yes: Please name the place or village/town No: Please transfer to Qo 5
5	Thanks for the cooperation	Please leave a message about ways that you can receive attendance emolument

**Figure S1.** A nomograph showing the study area divided by 13625 grids (5km × 5km).

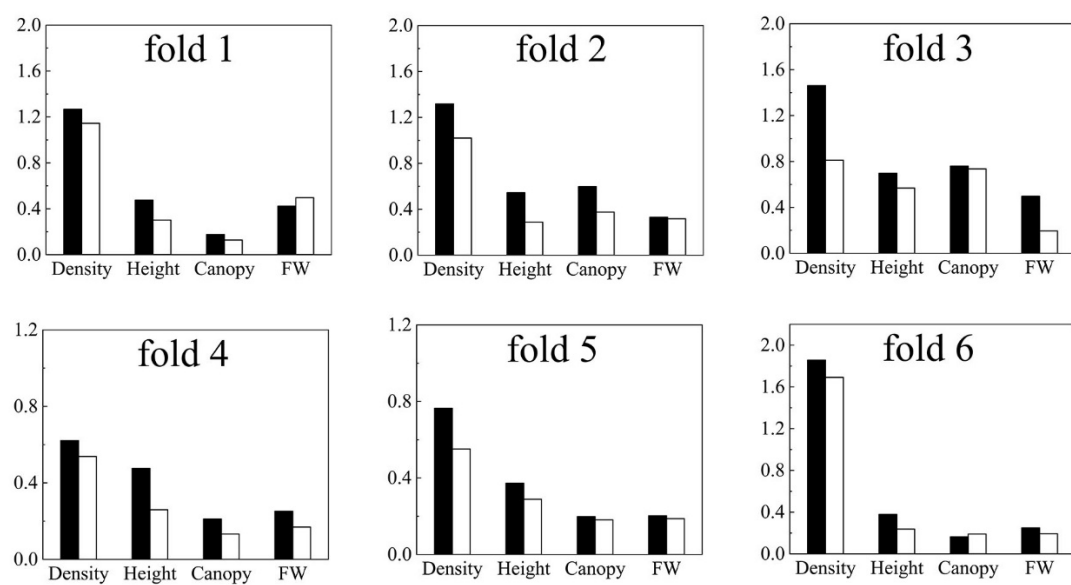


Figure S2. Comparisons of differences between measured values (black) and predicted values (white) for density, height, canopy area (Canopy), and fresh weight (FW) in *Vaccinium uliginosum*.