Supplementary file 2

Forest stand information: Stand age, latitude and longitude, size, proportion of dominating tree species, vegetation type, and soil moisture class in all stands surveyed. Data are based on information from land owner’s database.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tree species | Age class | Age | Latitude (N) | Longitude (E ) | Size (ha) | Proportion of dominating tree species | Vegetation type  | Soil moisture |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 13 | 64° 15' | 15° 44' | 10.7 | 0.99 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 17 | 64° 22' | 16° 15' | 19.7 | 0.89 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 13 | 64° 21' | 16° 19' | 21.9 | 1.00 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 15 | 64° 18' | 16° 40' | 72.3 | 0.73 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 17 | 64° 02'  | 16° 47' | 15.9 | 1.00 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 13 | 64° 07' | 16° 45' | 10.3 | 0.75 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 15 | 64° 10' | 16° 59' | 25.9 | 1 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 17 | 64° 10' | 16° 30' | 28.8 | 0.93 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 15 | 64° 29' | 16° 35' | 17.2 | 0.96 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 13 | 64° 30' | 16° 36' | 48.7 | 0.88 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 15 | 64° 25' | 17° 01' | 19.5 | 1.00 | Cowberry | dry |
| *P. contorta* Dougl. var *latifolia* Engelm. | 15 | 14 | 64° 08' | 16° 43' | 32.3 | 1.00 | Bilberry | moist |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 30 | 64° 07' | 16° 22' | 28.1 | 0.77 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 28 | 64° 07' | 16° 23' | 62.6 | 0.88 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 30 | 64° 08' | 16° 14' | 56.3 | 0.90 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 28 | 64° 09' | 16° 15' | 18.9 | 0.93 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 29 | 64° 13' | 16° 09' | 16.0 | 0.70 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 31 | 64° 04' | 16° 05' | 8.6 | 0.90 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 30 | 64° 04' | 16° 05' | 19.1 | 0.94 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 34 | 64° 14' | 16° 46' | 17.4 | 1.00 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 31 | 64° 13' | 16° 28' | 32.5 | 0.87 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 31 | 64° 22'  | 16° 08' | 13.5 | 1.00 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 31 | 64° 07' | 16° 55' | 53.7 | 0.94 | Bilberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 30 | 29 | 64° 17' | 16° 17' | 24.4 | 0.93 | Cowberry | mesic |
| *P. contorta* Dougl. var *latifolia* Engelm. | 85 | 87 | 64° 18' | 16° 21' | 8.4 | 0.80 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 17 | 64° 10' | 15° 55' | 48.0 | 0.93 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 14 | 64° 12' | 16° 14' | 47.9 | 0.98 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 16 | 64° 24' | 15° 58' | 25.1 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 15 | 64°19' | 16° 04' | 17.6 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 14 | 64° 05' | 16° 37' | 40.7 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 16 | 64° 20'  | 16° 22' | 9.5 | 1.00 | Cowberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 13 | 64° 19' | 16° 05' | 11.9 | 1.00 | Bilberry | moist |
| *P. abies* (L.) H. Karst. | 15 | 17 | 64° 32' | 16° 24' | 46.9 | 0.97 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 15 | 64° 31' | 16° 28' | 44.0 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 13 | 64° 31' | 16° 27' | 27.1 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 14 | 64° 30' | 16° 33' | 22.8 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 15 | 15 | 64° 08' | 16° 43' | 5.4 | 1.00 | Bilberry | moist |
| *P. abies* (L.) H. Karst. | 30 | 27 | 64° 04' | 15° 57' | 54.0 | 0.71 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 31 | 64° 12' | 16° 19' | 12.8 | 0.93 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 33 | 64° 12' | 16° 20' | 12.3 | 0.84 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 31 | 64° 13' | 16° 04' | 94.4 | 0.72 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 31 | 64° 13' | 16° 10' | 30.6 | 0.82 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 33 | 64° 06' | 15° 55' | 6.1 | 0.86 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 28 | 64° 14' | 16° 33' | 6.1 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 31 | 64° 24' | 16° 17' | 60.2 | 0.72 | Cowberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 30 | 64° 25' | 16° 18' | 59.4 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 28 | 64° 28' | 16° 13' | 54.4 | 0.74 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 32 | 64° 18' | 16° 24' | 11.1 | 0.80 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 30 | 33 | 64° 33'  | 16° 23' | 28.8 | 0.75 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 86 | 64° 17' | 16° 01' | 8.5 | 0.78 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 90 | 64° 18' | 16° 01' | 9.7 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 81 | 64° 13' | 16° 20' | 8.9 | 0.82 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 87 | 64° 21' | 16° 23' | 21.0 | 0.77 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 89 | 64° 21' | 16° 25' | 7.0 | 0.73 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 89 | 64° 20' | 16° 25' | 7.7 | 0.79 | Bilberry | moist |
| *P. abies* (L.) H. Karst. | 85 | 83 | 64° 07' | 16° 35' | 5.6 | 0.84 | Poor shrub  | moist |
| *P. abies* (L.) H. Karst. | 85 | 81 | 64° 19' | 16° 13' | 5.5 | 0.74 | Cowberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 84 | 64° 14' | 16° 39' | 10.2 | 1.00 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 85 | 64° 29' | 16° 36' | 8.7 | 0.90 | Bilberry | mesic |
| *P. abies* (L.) H. Karst. | 85 | 85 | 64° 28'  | 16° 40' | 5.4 | 0.75 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 13 | 64° 10' | 15° 57' | 30.5 | 0.79 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 13 | 64° 10' | 16° 15' | 27.4 | 0.86 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 05' | 16° 23' | 30.1 | 0.93 | Bilberry | moist |
| *P. sylvestris* L. | 15 | 14 | 64° 06' | 16° 20' | 7.6 | 0.98 | Cowberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 06' | 16° 27' | 70.1 | 0.89 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 15' | 16° 05' | 46.7 | 0.73 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 17 | 64° 21' | 16° 15' | 24.7 | 0.96 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 15 | 64° 16' | 16° 34' | 59.8 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 12' | 16° 35' | 18.2 | 1.00 | Cowberry | dry |
| *P. sylvestris* L. | 15 | 14 | 64° 31'  | 16° 46' | 41.2 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 03' | 16° 48' | 7.6 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 15 | 14 | 64° 17' | 16° 18' | 12.1 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 32 | 64° 06' | 16° 19' | 99.0 | 0.90 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 29 | 64° 09'  | 16° 04' | 28.0 | 0.97 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 32 | 64° 02' | 16° 48' | 19.1 | 0.85 | Cowberry | mesic |
| *P. sylvestris* L. | 30 | 34 | 64° 15' | 16° 33' | 12.1 | 0.85 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 28 | 64° 06' | 16° 52' | 15.9 | 0.80 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 28 | 64° 11' | 16° 02' | 9.7 | 0.99 | Cowberry | mesic |
| *P. sylvestris* L. | 30 | 32 | 64° 18' | 16° 42' | 18.5 | 0.70 | Cowberry | mesic |
| *P. sylvestris* L. | 30 | 32 | 64° 12' | 16° 31' | 81.7 | 0.94 | Cowberry | mesic |
| *P. sylvestris* L. | 30 | 30 | 64° 25' | 16° 49' | 19.5 | 0.96 | Cowberry | mesic |
| *P. sylvestris* L. | 30 | 34 | 64° 14' | 16° 46' | 27.8 | 0.92 | Bilberry | dry |
| *P. sylvestris* L. | 30 | 34 | 64° 14' | 16° 46' | 17.0 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 30 | 28 | 64° 12' | 16° 42' | 10.6 | 1.00 | Cowberry | mesic |
| *P. sylvestris* L. | 85 | 83 | 64° 07' | 16° 08' | 6.2 | 0.85 | Bilberry | mesic |
| *P. sylvestris* L. | 85 | 80 | 64° 13' | 16° 18' | 14.5 | 0.78 | Thinleaved grass | mesic |
| *P. sylvestris* L. | 85 | 84 | 64° 28' | 15° 58' | 7.4 | 1.00 | Bilberry | mesic |
| *P. sylvestris* L. | 85 | 80 | 64° 18' | 16° 21' | 3.5 | 0.94 | Bilberry | mesic |
| *P. sylvestris* L. | 85 | 81 | 64° 23' | 16° 10' | 4.5 | 1.00 | Cowberry | dry |
| *P. sylvestris* L. | 85 | 88 | 64° 23' | 16° 10' | 2.7 | 1.00 | Cowberry | mesic |
| *P. sylvestris* L. | 85 | 90 | 64° 23' | 16° 48' | 4.4 | 0.94 | Cowberry | mesic |
| *P. sylvestris* L. | 85 | 90 | 64° 24' | 16° 50' | 8.5 | 0.75 | Bilberry | mesic |
| *P. sylvestris* L. | 85 | 80 | 64° 24' | 16° 53' | 13.6 | 0.90 | Cowberry | mesic |
| *P. sylvestris* L. | 85 | 86 | 64° 12' | 17° 02' | 8.5 | 0.95 | Bilberry | mesic |
| *P. sylvestris* L. | 85 | 82 | 64° 12' | 16° 34' | 5.1 | 0.95 | Cowberry | mesic |
| *P. sylvestris* L. | 85 | 80 | 64° 19' | 16° 13' | 6.7 | 0.86 | Bilberry | mesic |