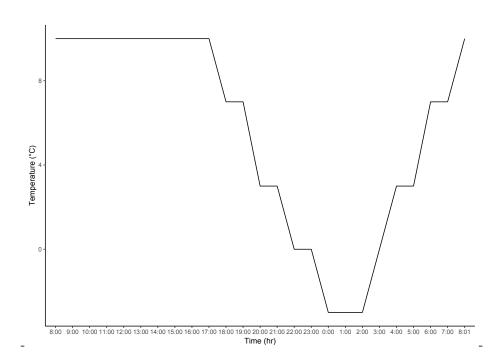
Supplemental materials: False spring damage on temperate tree seedlings is amplified with winter warming

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Supplemental Tables and Figures

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Table S1: Summary of model with the effects of false spring treatment and chilling duration across species on duration of vegetative risk.

across species on duration of vegetative	C 110IX.						
	mean	2%	10%	25%	75%	90%	98%
Intercept	16.02	12.46	13.60	15.08	16.90	18.52	20.23
Tx	2.97	1.13	1.68	2.45	3.49	4.26	4.87
Chill 6 Wks	-0.53	-3.83	-2.73	-1.38	0.32	1.72	2.99
Chill 8 Wks	-2.67	-5.54	-4.56	-3.35	-1.94	-0.85	0.03
Tx:Chill 6 Wks	-0.91	-3.59	-2.78	-1.65	-0.17	0.92	1.85
Tx:Chill 8 Wks	0.62	-1.97	-1.14	-0.08	1.34	2.38	3.25
Acer saccharinum, Intercept	-3.06	-7.74	-5.82	-4.12	-1.93	-0.40	0.75
Alnus incana rugosa,Intercept	4.39	0.17	1.66	3.33	5.44	7.19	8.51
Betula papyrifera,Intercept	0.96	-3.52	-1.86	-0.06	2.02	3.69	4.85
Betula populifolia,Intercept	0.20	-4.12	-2.47	-0.86	1.27	2.93	4.19
Cornus racemosa, Intercept	0.48	-3.87	-2.35	-0.54	1.57	3.10	4.26
Salix purpurea, Intercept	-5.49	-10.38	-8.46	-6.57	-4.33	-2.69	-1.40
Sorbus americana, Intercept	-1.14	-5.56	-3.88	-2.20	-0.07	1.60	2.79
Viburnum dendatum,Intercept	3.57	-0.78	0.80	2.51	4.67	6.29	7.69
Acer saccharinum,Tx	-0.36	-2.80	-1.82	-0.72	0.05	0.63	1.27
Alnus incana rugosa,Tx	0.37	-1.36	-0.73	-0.06	0.76	1.91	2.86
Betula papyrifera,Tx	0.45	-1.17	-0.54	-0.03	0.84	2.03	3.08
Betula populifolia,Tx	-0.43	-3.09	-1.97	-0.80	0.04	0.55	1.12
$Cornus\ racemosa, Tx$	0.00	-1.93	-1.15	-0.29	0.32	1.13	1.91
Salix purpurea,Tx	-0.14	-2.48	-1.59	-0.55	0.25	1.21	2.14
Sorbus americana,Tx	-0.21	-2.43	-1.57	-0.54	0.15	0.84	1.57
Viburnum dendatum,Tx	0.35	-1.38	-0.75	-0.10	0.74	1.93	2.86
Acer saccharinum, Chill 6 Wks	-0.13	-4.23	-2.82	-1.21	0.92	2.61	4.04
Alnus incana rugosa, Chill 6 Wks	-0.66	-4.71	-3.50	-1.71	0.41	2.10	3.53
Betula papyrifera, Chill 6 Wks	1.50	-2.35	-1.14	0.40	2.54	4.30	5.65
Betula populifolia, Chill 6 Wks	-0.59	-4.77	-3.43	-1.62	0.50	2.10	3.22
Cornus racemosa, Chill 6 Wks	0.46	-3.46	-2.14	-0.56	1.48	3.11	4.43
Salix purpurea, Chill 6 Wks	4.60	0.55	1.62	3.26	5.84	7.88	9.27
Sorbus americana, Chill 6 Wks	-2.20	-6.59	-5.11	-3.27	-1.02	0.45	1.44
Viburnum dendatum, Chill 6 Wks	-3.19	-7.67	-6.24	-4.28	-2.01	-0.48	0.62
Acer saccharinum, Chill 8 Wks	0.94	-2.40	-1.30	-0.02	1.85	3.42	4.57
Alnus incana rugosa, Chill 8 Wks	-1.32	-5.07	-3.77	-2.23	-0.38	1.04	2.09
Betula papyrifera, Chill 8 Wks	0.21	-3.49	-2.22	-0.68	1.12	2.52	3.77
Betula populifolia, Chill 8 Wks	-1.36	-5.28	-3.90	-2.25	-0.39	0.82	1.82
Cornus racemosa, Chill 8 Wks	0.61	-2.76	-1.58	-0.30	1.48	2.94	4.23
Salix purpurea, Chill 8 Wks	3.91	0.30	1.23	2.72	5.00	6.79	8.30
Sorbus americana, Chill 8 Wks	-0.51	-4.16	-2.86	-1.41	0.41	1.76	2.89
Viburnum dendatum, Chill 8 Wks	-2.54	-6.43	-5.09	-3.50	-1.50	-0.18	0.69
Acer saccharinum, Tx: Chill 6 Wks	-0.46	-4.34	-2.80	-0.98	0.16	1.15	2.08
Alnus incana rugosa, Tx: Chill 6 Wks	0.35	-2.54	-1.42	-0.27	0.89	2.66	4.38
Betula papyrifera, Tx: Chill 6 Wks	0.33	-2.71	-1.36	-0.22	0.85	2.44	3.77
Betula populifolia, Tx: Chill 6 Wks	-0.54	-4.45	-2.83	-1.05	0.11	1.06	2.03
Cornus racemosa, Tx: Chill 6 Wks	0.23	-2.65	-1.45	-0.26	0.69	2.25	3.58
Salix purpurea,Tx:Chill 6 Wks	1.07	-1.87	-0.80	0.02	1.84	4.03	5.96
Sorbus americana, Tx: Chill 6 Wks	-0.44	-3.99	-2.60	-0.97	0.16	1.13	2.24
Viburnum dendatum, Tx: Chill 6 Wks	-0.58	-4.61	-2.97	-1.16	0.10	1.13 1.07	2.24 2.17
Acer saccharinum, Tx: Chill 8 Wks	-0.05	-2.85	-1.67	-0.45	0.10	1.47	2.77
Alnus incana rugosa, Tx: Chill 8 Wks	0.12	-2.75	-1.46	-0.49	0.53	1.87	$\frac{2.19}{3.40}$
Timus meana rayosa, IX. Omn o WKS	0.14	-2.10	-1.40	-0.50	0.04	1.01	9.40

Table S1: Summary of model with the effects of false spring treatment and chilling duration across species on duration of vegetative risk.

	mean	2%	10%	25%	75%	90%	98%
Betula papyrifera,Tx:Chill 8 Wks	0.31	-1.95	-1.01	-0.16	0.72	2.14	3.56
Betula populifolia,Tx:Chill 8 Wks	-0.06	-2.98	-1.62	-0.43	0.33	1.43	2.66
Cornus racemosa, Tx: Chill 8 Wks	0.40	-1.62	-0.83	-0.10	0.75	2.28	3.86
Salix purpurea, Tx: Chill 8 Wks	-0.09	-3.49	-2.09	-0.58	0.43	1.75	2.95
Sorbus americana, Tx: Chill 8 Wks	-0.48	-4.01	-2.61	-0.90	0.08	0.80	1.61
Viburnum dendatum,Tx:Chill 8 Wks	-0.25	-3.57	-2.24	-0.67	0.26	1.25	2.36

Table S2: Summary of model with the effects of false spring treatment and chilling duration across species on growing season length.

Intercept 262.96 231.63 242.88 256.06 270.54 281.15 Tx -3.22 -16.85 -12.26 -6.71 0.47 5.29 Chill 6 Wks 16.08 4.19 7.86 12.89 19.34 24.03 Chill 8 Wks 19.97 7.72 11.80 16.73 23.26 28.18 Tx:Chill 6 Wks -13.86 -29.68 -24.39 -18.30 -9.57 -2.96 Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept -37.86 -66.24	98%
Tx -3.22 -16.85 -12.26 -6.71 0.47 5.29 Chill 6 Wks 16.08 4.19 7.86 12.89 19.34 24.03 Chill 8 Wks 19.97 7.72 11.80 16.73 23.26 28.18 Tx:Chill 6 Wks -13.86 -29.68 -24.39 -18.30 -9.57 -2.96 Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50	289.77
Chill 6 Wks 16.08 4.19 7.86 12.89 19.34 24.03 Chill 8 Wks 19.97 7.72 11.80 16.73 23.26 28.18 Tx:Chill 6 Wks -13.86 -29.68 -24.39 -18.30 -9.57 -2.96 Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana,Intercept -37.86 <td>8.93</td>	8.93
Chill 8 Wks 19.97 7.72 11.80 16.73 23.26 28.18 Tx:Chill 6 Wks -13.86 -29.68 -24.39 -18.30 -9.57 -2.96 Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana,Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum,Intercept <td>27.79</td>	27.79
Tx:Chill 6 Wks -13.86 -29.68 -24.39 -18.30 -9.57 -2.96 Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana,Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum,Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum,Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15<	32.32
Tx:Chill 8 Wks -9.12 -26.28 -20.39 -13.65 -4.62 2.31 Acer saccharinum,Intercept -8.47 -36.41 -27.34 -16.24 -1.01 11.97 Alnus incana rugosa,Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana,Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum,Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum,Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana	2.24
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.41
Alnus incana rugosa, Intercept 30.04 2.37 11.02 21.92 37.75 51.19 Betula papyrifera, Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia, Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa, Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea, Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana, Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum, Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum, Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa, Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera, Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia, Tx 4.56 -9.23 -4.18 0.28 8.23	23.26
Betula papyrifera,Intercept 6.36 -21.53 -12.56 -1.64 13.92 27.10 Betula populifolia,Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa,Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea,Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana,Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum,Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum,Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa,Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera,Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia,Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	61.89
Betula populifolia, Intercept 32.41 5.75 13.92 24.31 39.96 53.39 Cornus racemosa, Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea, Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana, Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum, Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum, Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa, Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera, Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia, Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	38.21
Cornus racemosa, Intercept -24.62 -52.94 -43.91 -32.44 -17.21 -3.88 Salix purpurea, Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana, Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum, Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum, Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa, Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera, Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia, Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	65.12
Salix purpurea, Intercept 41.22 14.50 21.99 32.93 48.89 62.11 Sorbus americana, Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum, Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum, Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa, Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera, Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia, Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	6.64
Sorbus americana, Intercept -37.86 -66.24 -57.42 -45.82 -30.61 -16.79 Viburnum dendatum, Intercept 7.29 -20.53 -11.49 -0.54 14.70 27.58 Acer saccharinum, Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa, Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera, Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia, Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	73.92
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-6.62
Acer saccharinum,Tx 1.08 -11.39 -7.59 -2.18 4.03 11.15 Alnus incana rugosa,Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera,Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia,Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	38.17
Alnus incana rugosa,Tx 3.07 -11.51 -5.92 -0.53 6.44 13.78 Betula papyrifera,Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia,Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	18.29
Betula papyrifera,Tx 2.17 -10.88 -6.17 -1.03 5.08 12.36 Betula populifolia,Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	20.86
Betula populifolia,Tx 4.56 -9.23 -4.18 0.28 8.23 15.40	19.34
v	21.58
	8.00
Salix purpurea,Tx 5.25 -8.14 -3.83 0.67 9.00 16.61	24.49
Sorbus americana,Tx -9.30 -28.52 -22.41 -14.08 -3.59 0.54	3.96
Viburnum dendatum,Tx 4.21 -8.38 -4.23 0.08 7.74 15.34	21.78
Acer saccharinum, Chill 6 Wks 1.41 -10.21 -5.40 -0.93 3.48 10.28	16.43
Alnus incana rugosa, Chill 6 Wks -3.73 -22.01 -14.62 -6.53 -0.02 2.95	6.13
Betula papyrifera, Chill 6 Wks -0.25 -13.16 -7.83 -2.33 1.81 6.94	12.47
Betula populifolia, Chill 6 Wks -1.38 -15.81 -10.07 -3.78 0.98 6.18	11.40
Cornus racemosa, Chill 6 Wks 2.46 -8.68 -4.53 -0.41 4.89 12.06	17.96
Salix purpurea, Chill 6 Wks -4.48 -22.55 -16.06 -7.59 -0.28 2.46	6.28
Sorbus americana, Chill 6 Wks 3.77 -7.21 -3.66 0.00 6.75 14.70	21.97
Viburnum dendatum, Chill 6 Wks -0.10 -12.76 -7.74 -2.26 1.94 7.90	13.64
Acer saccharinum, Chill 8 Wks 2.41 -8.08 -3.84 -0.39 4.58 12.01	19.10
Alnus incana rugosa, Chill 8 Wks -1.02 -15.90 -10.16 -3.13 1.23 6.64	12.02
Betula papyrifera, Chill 8 Wks -0.85 -15.18 -9.24 -2.68 1.27 6.22	11.14
Betula populifolia, Chill 8 Wks -0.60 -14.66 -8.74 -2.63 1.53 6.95	12.39
Cornus racemosa, Chill 8 Wks -0.83 -16.05 -9.81 -2.87 1.51 6.55	12.44
Salix purpurea, Chill 8 Wks -3.31 -22.36 -14.86 -5.95 0.17 3.70	7.99
Sorbus americana, Chill 8 Wks 1.88 -10.97 -5.83 -0.95 4.28 11.98	19.46
Viburnum dendatum, Chill 8 Wks 2.07 -8.80 -4.66 -0.60 4.06 12.09	19.30
Acer saccharinum, Tx: Chill 6 Wks -1.65 -19.93 -12.13 -3.50 0.90 5.61	10.41
Alnus incana rugosa, Tx: Chill 6 Wks -0.36 -16.93 -9.88 -2.50 1.98 8.26	14.80
Betula papyrifera, Tx: Chill 6 Wks -0.41 -16.31 -9.28 -2.30 1.66 7.63	13.79
Betula populifolia, Tx: Chill 6 Wks 1.08 -13.06 -7.39 -1.39 3.27 11.32	18.61
Cornus racemosa, Tx: Chill 6 Wks -0.09 -16.14 -8.85 -2.09 2.12 8.48	14.34
Salix purpurea, Tx: Chill 6 Wks -0.92 -18.40 -11.34 -3.18 1.58 7.85	14.25
Sorbus americana, Tx: Chill 6 Wks 1.12 -14.08 -8.00 -1.51 3.44 11.94	20.57
Viburnum dendatum, Tx: Chill 6 Wks 1.36 -11.24 -6.06 -1.06 3.25 11.19	18.91
Acer saccharinum, Tx: Chill 8 Wks 1.82 -12.99 -6.98 -1.18 4.33 13.68	21.92
Alnus incana rugosa, Tx: Chill 8 Wks 1.20 -16.05 -8.71 -1.73 3.94 12.33	20.18

Table S2: Summary of model with the effects of false spring treatment and chilling duration across species on growing season length.

	mean	2%	10%	25%	75%	90%	98%
Betula papyrifera, Tx: Chill 8 Wks	2.36	-10.92	-5.71	-0.79	5.05	13.39	21.36
Betula populifolia,Tx:Chill 8 Wks	0.50	-17.61	-9.68	-2.12	3.26	10.76	17.92
Cornus racemosa, Tx: Chill 8 Wks	-1.46	-20.32	-13.06	-4.16	1.54	8.04	13.83
Salix purpurea, Tx: Chill 8 Wks	0.81	-16.74	-9.59	-2.33	3.88	11.97	19.64
Sorbus americana, Tx: Chill 8 Wks	-5.50	-32.30	-21.92	-9.55	-0.01	3.87	9.03
Viburnum dendatum,Tx:Chill 8 Wks	2.09	-12.52	-6.78	-1.01	4.70	14.07	22.20

Table S3: Summary of model with the effects of false spring treatment and chilling duration across species on shoot apical meristem damage.

scross species on shoot apicar mension			4 ~ ~~	250	~~	0.004	0.001
T	mean	2%	10%	25%	75%	90%	98%
Intercept	-1.68	-4.65	-3.49	-2.25	-1.03	-0.13	0.68
Tx	2.07	-0.42	0.61	1.51	2.60	3.58	4.61
Chill 6 Wks	-0.53	-5.64	-3.63	-1.53	0.51	2.33	4.17
Chill 8 Wks	-0.18	-3.35	-2.07	-0.82	0.51	1.61	2.75
Tx:Chill 6 Wks	-0.21	-4.25	-2.41	-0.98	0.60	1.92	3.34
Tx:Chill 8 Wks	0.28	-2.60	-1.60	-0.51	0.99	2.40	3.99
Acer saccharinum,Intercept	-0.45	-3.53	-2.38	-1.18	0.27	1.44	2.54
Alnus incana rugosa,Intercept	0.44	-2.16	-1.28	-0.27	1.09	2.36	3.64
Betula papyrifera,Intercept	0.32	-2.31	-1.43	-0.37	0.96	2.23	3.43
Betula populifolia,Intercept	-2.15	-6.79	-4.94	-3.02	-1.08	0.04	1.05
Cornus racemosa,Intercept	0.94	-1.78	-0.86	0.15	1.62	2.98	4.28
Salix purpurea,Intercept	1.56	-0.95	-0.14	0.79	2.25	3.57	4.83
Sorbus americana, Intercept	-2.48	-8.23	-5.93	-3.42	-1.19	-0.05	0.81
Viburnum dendatum,Intercept	1.84	-0.89	-0.00	1.03	2.58	3.90	5.11
Acer saccharinum,Tx	-0.08	-2.98	-1.75	-0.54	0.40	1.52	2.86
Alnus incana rugosa,Tx	0.42	-2.10	-0.97	-0.09	0.87	2.27	3.77
Betula papyrifera,Tx	-0.21	-3.24	-1.89	-0.62	0.24	1.21	2.54
Betula populifolia,Tx	-1.23	-7.03	-4.50	-1.95	-0.05	0.53	1.26
Cornus racemosa,Tx	0.83	-1.70	-0.73	-0.01	1.35	3.52	6.42
Salix purpurea,Tx	-0.41	-3.57	-2.15	-0.86	0.09	0.93	2.06
Sorbus americana,Tx	-0.62	-5.42	-3.30	-1.24	0.12	1.30	2.71
$Viburnum\ dendatum, Tx$	1.43	-1.26	-0.56	0.07	2.12	5.51	9.44
Acer saccharinum, Chill 6 Wks	-3.92	-16.21	-10.63	-5.39	-1.57	0.23	1.52
Alnus incana rugosa, Chill 6 Wks	-0.17	-5.50	-3.35	-1.29	0.95	3.00	5.13
Betula papyrifera, Chill 6 Wks	-1.96	-8.74	-5.81	-3.14	-0.57	1.27	3.23
Betula populifolia, Chill 6 Wks	2.17	-3.16	-1.27	0.68	3.48	6.17	8.67
Cornus racemosa, Chill 6 Wks	0.86	-4.19	-2.22	-0.36	1.99	4.30	6.56
Salix purpurea, Chill 6 Wks	-0.46	-5.74	-3.59	-1.55	0.63	2.69	4.98
Sorbus americana, Chill 6 Wks	-2.90	-17.31	-10.27	-4.52	-0.34	1.95	3.78
Viburnum dendatum, Chill 6 Wks	5.87	-0.04	0.97	2.95	7.48	14.25	21.82
Acer saccharinum, Chill 8 Wks	-1.58	-7.47	-4.63	-2.37	-0.42	0.53	1.60
Alnus incana rugosa, Chill 8 Wks	-1.42	-6.46	-4.03 -4.32	-2.22	-0.42	0.56	1.50
Betula papyrifera, Chill 8 Wks	-0.43	-0.40 -4.14	-4.52 -2.58	-1.12	0.28	1.57	$\frac{1.39}{2.83}$
		-3.60	-2.38 -2.12	-0.43	1.46		
Betula populifolia, Chill 8 Wks	0.56					3.66	5.55
Cornus racemosa, Chill 8 Wks	-0.09	-3.92	-2.40	-0.79	0.67	2.07	3.20
Salix purpurea, Chill 8 Wks	0.06	-3.17	-1.99	-0.63	0.74	2.18	3.48
Sorbus americana, Chill 8 Wks	-0.37	-6.14	-3.60	-1.34	0.68	2.62	4.40
Viburnum dendatum, Chill 8 Wks	3.26	-0.28	0.20	1.59	4.35	7.91	11.92
Acer saccharinum, Tx: Chill 6 Wks	-0.65	-8.36	-4.47	-1.24	0.23	1.96	4.00
Alnus incana rugosa, Tx: Chill 6 Wks	0.12	-3.75	-2.05	-0.45	0.66	2.39	4.50
Betula papyrifera,Tx:Chill 6 Wks	0.18	-4.05	-2.06	-0.47	0.69	2.91	5.48
Betula populifolia,Tx:Chill 6 Wks	1.30	-2.09	-0.92	0.00	2.10	5.41	8.54
Cornus racemosa,Tx:Chill 6 Wks	-1.06	-7.96	-4.78	-1.80	0.03	0.94	2.28
Salix purpurea,Tx:Chill 6 Wks	0.22	-3.42	-1.74	-0.38	0.73	2.70	4.64
Sorbus americana, Tx: Chill 6 Wks	-0.37	-9.27	-4.39	-0.99	0.57	2.71	5.35
Viburnum dendatum,Tx:Chill 6 Wks	0.11	-7.38	-3.87	-0.87	0.87	4.60	9.62
Acer saccharinum,Tx:Chill 8 Wks	0.35	-3.25	-1.77	-0.32	0.82	3.00	5.96
Alnus incana rugosa,Tx:Chill 8 Wks	-0.09	-4.24	-2.25	-0.63	0.41	1.96	4.23

Table S3: Summary of model with the effects of false spring treatment and chilling duration across species on shoot apical meristem damage.

	mean	2%	10%	25%	75%	90%	98%
Betula papyrifera,Tx:Chill 8 Wks	0.07	-3.48	-1.82	-0.40	0.55	1.97	3.60
Betula populifolia,Tx:Chill 8 Wks	-1.34	-10.73	-5.87	-1.96	0.02	0.92	2.05
Cornus racemosa, Tx: Chill 8 Wks	0.81	-2.28	-1.16	-0.10	1.32	4.28	7.73
Salix purpurea, Tx: Chill 8 Wks	-0.38	-4.53	-2.76	-0.87	0.21	1.33	2.53
Sorbus americana, Tx: Chill 8 Wks	0.73	-3.06	-1.55	-0.19	1.28	4.38	7.63
Viburnum dendatum,Tx:Chill 8 Wks	-0.06	-6.79	-3.54	-0.95	0.61	3.57	8.46

Table S4: Summary of model with the effects of false spring treatment and chilling duration across species on leaf chlorophyll content.

across species on lear emorophyn conto	J11U•						
	mean	2%	10%	25%	75%	90%	98%
Intercept	30.96	24.38	26.36	29.21	32.74	35.50	37.89
Tx	-0.35	-2.16	-1.61	-0.88	0.15	0.92	1.48
Chill 6 Wks	-0.06	-2.07	-1.42	-0.62	0.49	1.30	1.92
Chill 8 Wks	0.43	-1.97	-1.03	-0.12	1.04	1.86	2.58
Tx:Chill 6 Wks	-1.04	-3.76	-2.90	-1.81	-0.26	0.84	1.68
Tx:Chill 8 Wks	-2.11	-4.74	-3.88	-2.81	-1.40	-0.36	0.31
$Acer\ saccharinum, Intercept$	-5.84	-12.65	-10.48	-7.66	-4.06	-1.25	1.08
Alnus incana rugosa,Intercept	5.66	-1.33	0.96	3.81	7.48	10.35	12.40
Betula papyrifera,Intercept	-2.33	-9.20	-6.98	-4.13	-0.48	2.29	4.50
Betula populifolia,Intercept	0.68	-6.50	-3.99	-1.12	2.48	5.33	7.54
Cornus racemosa,Intercept	0.96	-5.84	-3.68	-0.88	2.81	5.61	7.89
Salix purpurea, Intercept	12.24	5.25	7.55	10.37	14.05	16.89	19.14
Sorbus americana, Intercept	-7.21	-14.06	-11.90	-9.05	-5.38	-2.60	-0.50
Viburnum dendatum,Intercept	-4.83	-11.98	-9.46	-6.66	-2.98	-0.20	2.01
Acer saccharinum,Tx	0.04	-1.77	-0.90	-0.22	0.30	1.03	1.81
Alnus incana rugosa,Tx	-0.02	-1.91	-1.10	-0.30	0.26	1.13	1.91
Betula papyrifera,Tx	-0.19	-2.44	-1.40	-0.44	0.13	0.69	1.34
Betula populifolia,Tx	-0.10	-1.99	-1.22	-0.36	0.18	0.88	1.54
$Cornus\ racemosa, { m Tx}$	0.07	-1.68	-0.91	-0.21	0.34	1.18	2.03
Salix purpurea,Tx	-0.45	-3.06	-2.09	-0.85	0.03	0.58	1.28
Sorbus americana,Tx	0.31	-1.33	-0.65	-0.07	0.63	1.70	2.48
Viburnum dendatum,Tx	0.30	-1.22	-0.58	-0.06	0.59	1.62	2.55
Acer saccharinum, Chill 6 Wks	0.35	-1.81	-0.97	-0.11	0.80	1.98	3.05
Alnus incana rugosa, Chill 6 Wks	-0.60	-3.81	-2.54	-1.09	0.02	0.68	1.35
Betula papyrifera, Chill 6 Wks	0.61	-1.21	-0.56	-0.01	1.09	2.48	3.62
Betula populifolia, Chill 6 Wks	0.31	-1.76	-0.97	-0.17	0.70	2.02	3.23
Cornus racemosa, Chill 6 Wks	-0.38	-3.37	-2.16	-0.81	0.12	0.95	1.75
Salix purpurea, Chill 6 Wks	-0.73	-3.84	-2.76	-1.33	-0.01	0.67	1.52
Sorbus americana, Chill 6 Wks	0.11	-2.52	-1.41	-0.33	0.58	1.65	2.77
Viburnum dendatum, Chill 6 Wks	0.33	-1.91	-0.98	-0.14	0.79	1.94	2.95
Acer saccharinum, Chill 8 Wks	0.04	-2.46	-1.51	-0.43	0.47	1.61	2.85
Alnus incana rugosa, Chill 8 Wks	0.33	-2.20	-1.18	-0.21	0.85	2.15	3.31
Betula papyrifera, Chill 8 Wks	0.18	-2.29	-1.36	-0.31	0.65	1.86	3.04
Betula populifolia, Chill 8 Wks	0.10	-2.41	-1.42	-0.38	0.56	1.74	2.94
Cornus racemosa, Chill 8 Wks	1.12	-0.75	-0.27	0.15	1.82	3.46	4.88
Salix purpurea, Chill 8 Wks	-0.31	-3.49	-2.24	-0.88	0.29	1.35	2.23
Sorbus americana, Chill 8 Wks	-0.67	-3.89	-2.68	-1.24	0.01	0.73	1.60
Viburnum dendatum, Chill 8 Wks	-0.71	-3.86	-2.78	-1.29	0.00	0.60	1.34
Acer saccharinum, Tx: Chill 6 Wks	0.15	-2.87	-1.64	-0.38	0.70	2.05	3.36
Alnus incana rugosa,Tx:Chill 6 Wks	0.20	-2.75	-1.60	-0.42	0.72	2.38	3.96
Betula papyrifera,Tx:Chill 6 Wks	0.08	-3.05	-1.80	-0.44	0.61	1.97	3.09
Betula populifolia,Tx:Chill 6 Wks	-0.78	-4.76	-3.31	-1.38	0.02	0.77	1.55
Cornus racemosa, Tx: Chill 6 Wks	0.27	-2.46	-1.46	-0.29	0.78	2.32	3.82
Salix purpurea, Tx: Chill 6 Wks	-1.15	-5.53	-3.86	-2.00	-0.07	0.73	1.76
Sorbus americana, Tx: Chill 6 Wks	0.96	-1.46	-0.68	0.02	1.65	3.49	5.08
Viburnum dendatum, Tx: Chill 6 Wks	0.37	-2.58	-1.32	-0.20	0.93	2.40	3.58
Acer saccharinum, Tx: Chill 8 Wks	0.06	-2.13	-1.13	-0.25	0.35	1.38	2.47
Alnus incana rugosa, Tx: Chill 8 Wks	0.06	-2.25	-1.22	-0.29	0.36	1.48	2.59
			-· 	JJ	5.55		

Table S4: Summary of model with the effects of false spring treatment and chilling duration across species on leaf chlorophyll content.

	mean	2%	10%	25%	75%	90%	98%
Betula papyrifera,Tx:Chill 8 Wks	0.04	-2.22	-1.20	-0.26	0.32	1.31	2.41
Betula populifolia,Tx:Chill 8 Wks	-0.06	-2.28	-1.37	-0.35	0.23	1.11	1.82
Cornus racemosa, Tx: Chill 8 Wks	-0.01	-2.46	-1.27	-0.32	0.29	1.30	2.40
Salix purpurea, Tx: Chill 8 Wks	-0.24	-3.31	-2.01	-0.62	0.20	1.13	2.13
Sorbus americana, Tx: Chill 8 Wks	0.05	-2.33	-1.30	-0.27	0.39	1.44	2.54
Viburnum dendatum,Tx:Chill 8 Wks	0.11	-2.08	-1.12	-0.22	0.42	1.51	2.74

Table S5: Summary of model with the effects of false spring treatment and chilling duration across species on leaf toughness.

ross species on lear toughness.	mean	2%	10%	25%	75%	90%	98%
Intercept	0.43	$\frac{270}{0.27}$	0.33	0.39	$\frac{7576}{0.47}$	0.53	0.59
Intercept Tx	-0.05	-0.10	-0.08	-0.06	-0.04	-0.02	-0.00
Chill 6 Wks	-0.05	-0.10 -0.11	-0.08	-0.00	-0.04	-0.02	-0.00
Chill 8 Wks	-0.05	-0.11 -0.11	-0.09	-0.07	-0.03	-0.03	-0.02
Tx:Chill 6 Wks	0.03	-0.11	-0.09	0.01	0.04	0.02	0.08
Tx:Chill 8 Wks	0.02 0.02	-0.04 -0.04		0.01	0.04 0.04	0.06	
	0.02 0.37	0.22	-0.02 0.27	0.01 0.34	0.04 0.41	0.00 0.47	$0.08 \\ 0.53$
Intercept Acer saccharinum,Intercept	-0.06	-0.22	-0.16	-0.10	-0.02	0.47 0.04	0.55 0.10
, <u>-</u>		-0.22 -0.21					
Alnus incana rugosa, Intercept	-0.05	-0.21 -0.28	-0.15	-0.09	-0.01	0.05	0.11
Betula papyrifera, Intercept	-0.11 -0.10		-0.22	-0.15	-0.07	-0.01	0.05
Betula populifolia,Intercept		-0.27	-0.20	-0.14	-0.06	0.01	0.06
Cornus racemosa,Intercept	-0.05	-0.21	-0.15	-0.09	-0.01	0.05	0.11
Salix purpurea,Intercept	0.15	-0.01	0.05	0.11	0.19	0.26	0.32
Sorbus americana,Intercept	-0.01	-0.17	-0.12	-0.05	0.03	0.10	0.16
Viburnum dendatum,Intercept	0.25	0.08	0.14	0.21	0.29	0.35	0.41
Acer saccharinum,Tx	-0.00	-0.06	-0.04	-0.01	0.01	0.03	0.05
Alnus incana rugosa,Tx	0.01	-0.03	-0.02	-0.00	0.02	0.05	0.08
Betula papyrifera,Tx	0.01	-0.05	-0.03	-0.00	0.02	0.04	0.06
Betula populifolia,Tx	0.01	-0.05	-0.03	-0.01	0.02	0.04	0.06
Cornus racemosa,Tx	0.02	-0.02	-0.01	0.00	0.04	0.07	0.09
Salix purpurea,Tx	-0.01	-0.08	-0.06	-0.03	-0.00	0.02	0.03
Sorbus americana,Tx	-0.01	-0.08	-0.05	-0.02	0.00	0.02	0.04
Viburnum dendatum,Tx	-0.02	-0.09	-0.07	-0.03	-0.00	0.01	0.03
Acer saccharinum, Chill 6 Wks	0.01	-0.03	-0.01	-0.00	0.02	0.05	0.08
Alnus incana rugosa, Chill 6 Wks	-0.01	-0.06	-0.04	-0.01	0.00	0.02	0.04
Betula papyrifera, Chill 6 Wks	-0.00	-0.05	-0.03	-0.01	0.01	0.03	0.05
Betula populifolia, Chill 6 Wks	-0.00	-0.05	-0.03	-0.01	0.01	0.03	0.05
Cornus racemosa, Chill 6 Wks	-0.01	-0.07	-0.04	-0.02	0.00	0.02	0.04
Salix purpurea, Chill 6 Wks	0.01	-0.04	-0.02	-0.00	0.01	0.04	0.07
Sorbus americana, Chill 6 Wks	-0.01	-0.07	-0.05	-0.02	0.00	0.02	0.03
Viburnum dendatum, Chill 6 Wks	0.01	-0.04	-0.02	-0.00	0.02	0.05	0.07
Acer saccharinum, Chill 8 Wks	0.02	-0.03	-0.01	0.00	0.04	0.07	0.10
Alnus incana rugosa, Chill 8 Wks	-0.02	-0.09	-0.06	-0.03	0.00	0.02	0.04
Betula papyrifera, Chill 8 Wks	-0.02	-0.09	-0.06	-0.03	-0.00	0.02	0.04
Betula populifolia, Chill 8 Wks	-0.01	-0.08	-0.06	-0.03	0.00	0.02	0.05
Cornus racemosa, Chill 8 Wks	-0.00	-0.07	-0.04	-0.02	0.01	0.04	0.06
Salix purpurea, Chill 8 Wks	0.02	-0.04	-0.02	0.00	0.04	0.07	0.10
Sorbus americana, Chill 8 Wks	-0.02	-0.10	-0.08	-0.04	-0.00	0.01	0.03
Viburnum dendatum, Chill 8 Wks	0.03	-0.03	-0.01	0.01	0.05	0.08	0.11
Acer saccharinum, Tx: Chill 6 Wks	0.01	-0.05	-0.03	-0.00	0.01	0.05	0.08
Alnus incana rugosa,Tx:Chill 6 Wks	-0.01	-0.08	-0.04	-0.01	0.00	0.02	0.05
Betula papyrifera,Tx:Chill 6 Wks	-0.00	-0.08	-0.04	-0.01	0.01	0.03	0.05
Betula populifolia,Tx:Chill 6 Wks	0.01	-0.04	-0.02	-0.00	0.02	0.05	0.08
Cornus racemosa,Tx:Chill 6 Wks	0.00	-0.05	-0.03	-0.01	0.01	0.04	0.08
Salix purpurea, Tx: Chill 6 Wks	0.00	-0.06	-0.03	-0.01	0.01	0.04	0.07
Sorbus americana,Tx:Chill 6 Wks	-0.01	-0.10	-0.06	-0.02	0.00	0.02	0.03
Viburnum dendatum,Tx:Chill 6 Wks	0.00	-0.06	-0.04	-0.01	0.01	0.04	0.07
Acer saccharinum,Tx:Chill 8 Wks	0.01	-0.04	-0.02	-0.00	0.02	0.05	0.09

Table S5: Summary of model with the effects of false spring treatment and chilling duration across species on leaf toughness.

	mean	2%	10%	25%	75%	90%	98%
Alnus incana rugosa,Tx:Chill 8 Wks	-0.00	-0.06	-0.04	-0.01	0.01	0.03	0.06
Betula papyrifera,Tx:Chill 8 Wks	-0.00	-0.07	-0.04	-0.01	0.00	0.03	0.05
Betula populifolia,Tx:Chill 8 Wks	-0.00	-0.07	-0.04	-0.01	0.01	0.03	0.05
Cornus racemosa, Tx: Chill 8 Wks	0.00	-0.06	-0.03	-0.01	0.01	0.04	0.06
Salix purpurea, Tx: Chill 8 Wks	-0.00	-0.07	-0.04	-0.01	0.01	0.03	0.06
Sorbus americana, Tx: Chill 8 Wks	-0.00	-0.06	-0.04	-0.01	0.01	0.03	0.06

Table S6: Summary of model with the effects of false spring treatment and chilling duration across species on leaf thickness.

Intercept	across species on lear thickness.	mean	2%	10%	25%	75%	90%	98%
Chill 6 Wks -8.90 -17.68 -15.08 -11.29 -6.46 -2.75 -0.23 Chill 6 Wks -8.38 -27.21 -20.39 -12.84 -3.67 13.68 9.06 Tx.Chill 6 Wks -1.81 -14.56 -10.56 -5.25 1.68 6.78 10.78 Tx.Chill 8 Wks -1.50 -10.93 -7.19 -2.04 5.03 9.99 13.30 Intercept 13.97 -57.43 -49.47 -38.00 -25.14 -15.13 -7.96 Acer saccharium, Intercept 32.87 -6.91 15.56 26.19 39.61 49.87 -58.60 Betula popynifonia, Intercept -8.65 -33.93 -25.99 -15.17 -17.2 28.17 15.86 Salix purpurea, Intercept -8.65 -33.93 -25.99 -15.17 -17.2 18.17 15.86 Salix purpurea, Intercept -5.66 -30.61 -22.12 -11.83 1.62 11.95 19.40 Acer saccharium, Tx -8.85 <t< td=""><td>Intercept</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Intercept							
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Table S6: Summary of model with the effects of false spring treatment and chilling duration across species on leaf thickness.

	mean	2%	10%	25%	75%	90%	98%
Alnus incana rugosa,Tx:Chill 8 Wks	-0.12	-12.38	-7.28	-1.83	1.51	6.96	13.25
Betula papyrifera,Tx:Chill 8 Wks	-0.47	-14.03	-8.09	-2.20	1.32	6.43	12.10
Betula populifolia,Tx:Chill 8 Wks	-0.49	-14.26	-8.03	-2.23	1.35	6.36	11.45
Cornus racemosa, Tx: Chill 8 Wks	0.86	-9.85	-5.64	-1.08	2.41	8.93	14.88
Salix purpurea, Tx: Chill 8 Wks	-1.35	-15.85	-10.16	-3.04	0.69	4.85	9.36
Sorbus americana, Tx: Chill 8 Wks	1.31	-10.34	-5.38	-0.88	3.13	10.00	16.75

Table S7: Summary of model with the effects of false spring treatment and chilling duration across species on total season growth.

across species on total season growt		204	1004	0504	M	0004	000
T	mean	2%	10%	25%	75%	90%	98%
Intercept	54.03	19.77	30.82	44.95	63.22	77.68	88.97
Tx	5.06	-5.39	-1.90	2.24	7.79	12.11	15.41
Chill 6 Wks	2.92	-7.38	-3.78	0.23	5.58	9.54	12.68
Chill 8 Wks	11.00	1.51	4.47	8.38	13.59	17.62	20.87
Tx:Chill 6 Wks	-8.40	-23.96	-18.63	-12.47	-4.27	2.04	6.88
Tx:Chill 8 Wks	-11.33	-23.91	-20.44	-15.01	-7.63	-2.35	1.62
Acer saccharinum,Intercept	1.28	-33.73	-23.06	-8.28	10.85	25.03	36.28
Alnus incana rugosa,Intercept	16.28	-19.47	-7.82	6.99	25.58	39.89	51.14
Betula papyrifera,Intercept	-17.33	-52.49	-41.43	-26.58	-7.98	6.77	17.33
Betula populifolia,Intercept	14.94	-20.58	-8.73	5.58	24.26	38.69	49.95
Cornus racemosa,Intercept	-36.89	-73.12	-60.99	-46.21	-27.51	-12.98	-2.26
Salix purpurea,Intercept	77.74	42.27	53.50	68.33	87.21	101.66	113.37
Sorbus americana, Intercept	-57.75	-93.73	-82.01	-67.20	-48.15	-34.18	-22.42
Viburnum dendatum,Intercept	-1.58	-36.76	-25.23	-10.72	7.79	22.17	32.68
Acer saccharinum,Tx	-3.07	-18.11	-12.61	-5.61	0.08	3.49	7.64
Alnus incana rugosa,Tx	5.01	-4.64	-1.72	0.51	8.30	16.58	22.75
Betula papyrifera,Tx	0.37	-12.64	-7.68	-2.00	2.81	8.52	13.53
Betula populifolia,Tx	-0.05	-12.57	-7.50	-2.27	2.18	7.54	11.97
Cornus racemosa,Tx	-0.01	-13.89	-8.63	-2.48	2.58	8.10	12.88
Salix purpurea,Tx	-5.43	-22.80	-16.75	-9.16	-0.78	2.04	5.04
Sorbus americana,Tx	1.17	-11.81	-6.70	-1.44	3.82	9.75	14.82
Viburnum dendatum,Tx	1.78	-9.55	-4.99	-0.77	4.12	10.63	16.16
Acer saccharinum, Chill 6 Wks	1.05	-8.99	-4.60	-0.87	2.70	8.36	14.05
Alnus incana rugosa, Chill 6 Wks	-3.36	-20.06	-13.74	-5.85	0.03	2.55	5.58
Betula papyrifera, Chill 6 Wks	-1.13	-14.13	-8.89	-2.99	0.84	5.21	9.26
Betula populifolia, Chill 6 Wks	0.92	-8.65	-4.71	-0.96	2.50	8.03	13.57
Cornus racemosa, Chill 6 Wks	2.71	-6.74	-3.46	-0.20	4.94	12.46	19.97
Salix purpurea, Chill 6 Wks	0.29	-11.79	-7.01	-1.79	2.25	8.24	13.14
Sorbus americana, Chill 6 Wks	0.46	-10.54	-6.26	-1.47	2.24	7.99	13.69
Viburnum dendatum, Chill 6 Wks	-0.61	-12.34	-7.66	-2.18	1.20	5.38	9.63
Acer saccharinum, Chill 8 Wks	0.22	-8.74	-4.92	-1.18	1.52	5.74	10.82
Alnus incana rugosa, Chill 8 Wks	-1.20	-14.35	-8.61	-2.64	0.66	4.05	7.73
Betula papyrifera, Chill 8 Wks	1.19	-7.86	-3.75	-0.60	2.60	8.08	12.93
Betula populifolia, Chill 8 Wks	0.67	-7.84	-4.27	-0.85	1.87	6.93	12.13
Cornus racemosa, Chill 8 Wks	0.13	-10.11	-5.92	-1.33	1.66	6.24	10.78
Salix purpurea, Chill 8 Wks	-1.87	-15.77	-10.41	-3.59	0.42	3.68	7.34
Sorbus americana, Chill 8 Wks	-0.52	-13.41	-7.28	-1.96	1.23	5.16	8.91
Viburnum dendatum, Chill 8 Wks	0.97	-7.33	-3.92	-0.66	2.22	7.67	12.63
Acer saccharinum, Tx: Chill 6 Wks	-1.97	-22.39	-14.47	-5.51	1.56	8.69	15.28
Alnus incana rugosa, Tx: Chill 6 Wks	-6.55	-31.17	-22.08	-11.38	-0.50	4.22	9.53
Betula papyrifera, Tx: Chill 6 Wks	-7.28	-31.70	-23.07	-12.32	-0.91	3.17	7.48
Betula populifolia, Tx: Chill 6 Wks	$\frac{-7.28}{2.09}$	-31.70 -14.47	-23.07 -7.83	-12.52 -1.56	5.51	14.28	21.42
Cornus racemosa, Tx: Chill 6 Wks	8.74	-6.89	-2.22	1.52	14.16	25.76	35.10
Salix purpurea,Tx:Chill 6 Wks	0.74	-0.89 -18.38	-2.22 -11.73	-3.54	4.82	13.89	21.05
				-3.34 -2.04			
Sorbus americana, Tx: Chill 6 Wks	1.80	-15.69	-9.78 -7.76		5.79 6.51	14.35	22.80
Viburnum dendatum, Tx: Chill 6 Wks	2.85	-12.75		-1.04	6.51	15.59	23.44
Acer saccharinum, Tx: Chill 8 Wks	0.18	-12.07	-6.72	-1.67	1.92	7.53	13.60
Alnus incana rugosa,Tx:Chill 8 Wks	-0.06	-14.29	-8.33	-2.00	1.90	8.07	14.34

Table S7: Summary of model with the effects of false spring treatment and chilling duration across species on total season growth.

	mean	2%	10%	25%	75%	90%	98%
Betula papyrifera, Tx: Chill 8 Wks	1.58	-9.94	-4.97	-0.70	3.55	10.38	17.16
Betula populifolia,Tx:Chill 8 Wks	-0.10	-12.32	-6.99	-1.86	1.58	6.75	11.71
Cornus racemosa, Tx: Chill 8 Wks	1.52	-9.59	-5.34	-0.87	3.45	10.73	17.62
Salix purpurea, Tx: Chill 8 Wks	-1.93	-19.13	-12.65	-4.38	0.87	5.90	11.29
Sorbus americana, Tx: Chill 8 Wks	1.44	-10.84	-6.16	-0.98	3.64	10.95	17.83
Viburnum dendatum,Tx:Chill 8 Wks	-2.43	-20.46	-12.36	-4.36	0.29	3.57	7.60

Table S8: Summary of model with the effects of false spring treatment and chilling duration across species on total biomass.

Therecept	across species on total biomass.	mean	2%	10%	25%	75%	90%	98%
TX -3.41 -9.89 -8.08 -5.27 -1.55 3.29 7.87 Chill 8 Wks 2.58 -4.64 -2.31 0.55 4.29 5.20 7.81 Tx-Chill 6 Wks 2.58 -4.64 -2.31 0.55 4.29 2.50 7.81 Tx-Chill 6 Wks -0.59 -9.92 -7.10 -3.37 2.06 6.10 9.03 Tx-Chill 8 Wks 1.37 -5.75 -2.83 1.13 6.42 10.47 13.14 Intercept 49.06 28.12 3.471 43.77 54.77 62.43 68.15 Acer saccharinum, Intercept 43.69 23.67 29.56 37.62 49.34 58.87 66.02 Betula papyrifera, Intercept -13.61 -33.58 27.43 -19.46 -2.18 2.82 11.50 2.58 66.02 Betula popyrifora, Intercept -36.61 16.89 22.39 30.53 42.05 51.62 59.11 Sorbus americana, Intercept -36.62	Intercept							
Chill 6 Wks 0.39 -6.74 -4.36 -1.55 2.29 5.20 7.88 Chill 8 Wks 0.59 -9.92 -7.10 -3.37 2.06 6.10 9.03 Tx-Chill 8 Wks 3.77 -5.75 -2.83 1.13 6.42 10.47 13.14 Intercept 49.06 28.12 34.71 43.77 54.77 62.33 68.15 Acer saccharimum, Intercept 3.91 -16.51 1.019 -2.04 9.957 18.72 26.20 Ahus incana rugosa, Intercept 43.69 23.67 29.56 37.62 49.34 58.87 66.20 Betula populifolia, Intercept 6.46 -13.58 -7.58 0.46 12.18 21.50 28.50 Corrus racemosa, Intercept 36.46 -18.89 22.29 30.53 42.25 11.53 18.62 59.11 Sorbus americana, Intercept -30.68 -50.72 -44.79 -36.60 -2.97 -15.60 -8.88 Viburnum dendatum,Intercept								
Chill 8 Wks 2.58 -4.64 -2.31 0.55 4.56 7.58 9.92 Tx:Chill 6 Wks 3.77 -5.75 -2.83 1.13 6.42 10.47 13.14 Intercept 49.06 28.12 34.71 43.77 54.77 62.43 68.15 Alms incana rugosa.Intercept 43.69 23.67 29.56 37.62 49.34 68.87 66.02 Betula papyrifera.Intercept 13.61 -33.58 -27.43 -19.46 -7.89 1.31 8.48 Betula popyrifera.Intercept 3.40 -23.25 -17.50 -9.36 2.25 11.53 18.08 Salix purpurea.Intercept 3.40 -23.25 -17.50 -9.36 6.22 15.31 18.08 Salix purpurea.Intercept -3.66 16.89 22.39 30.53 42.05 51.62 59.11 Sorbus americana.Intercept -4.67 -34.35 -28.81 -20.56 -8.91 -0.96 6.98 Almus incana rugosa,Tx 0.42								
Tx:Chill 6 Wks -0.59 -9.92 -7.10 -3.37 2.66 6.10 9.03 Tx:Chill 8 Wks 3.77 -5.75 -2.83 1.13 6.42 10.47 13.64 Intercept 49.06 28.21 23.471 43.775 54.77 62.43 68.15 Acer saccharinum,Intercept 43.69 23.67 29.56 37.62 49.34 58.87 66.20 Betula papyntifera,Intercept 13.61 -33.58 27.58 0.46 61.21 21.50 28.50 Cornus racemosa,Intercept 36.46 16.89 22.33 30.53 42.05 11.53 18.68 Salizy purpurea, Intercept 36.61 61.89 22.33 30.53 42.05 1.52 11.53 18.08 Salizy purpura, Intercept 30.68 50.72 44.79 -36.60 24.97 15.66 8.88 Viburnum dendatum,Intercept -14.67 -34.35 -20.61 -8.10 0.56 2.15 9.11 Acer saccharinum,Chill 6 Ws </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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Intercept								
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Betula papyrifera, Intercept	· · · · · · · · · · · · · · · · · · ·							
Betula populifolia,Intercept	<i>v</i> , <u>-</u>							
Cornus racemosa, Intercept	1 10 0 7							
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Viburnum dendatum,Tx:Chill 6 Wks 1.51 -6.58 -3.41 -0.42 3.08 8.77 13.43								
	Acer saccharinum,Tx:Chill 8 Wks	1.71	-4.94	-2.42	-0.21	3.14	8.66	13.63

Table S8: Summary of model with the effects of false spring treatment and chilling duration across species on total biomass.

	mean	2%	10%	25%	75%	90%	98%
Alnus incana rugosa,Tx:Chill 8 Wks	0.49	-8.70	-5.08	-1.10	2.01	6.60	11.66
Betula papyrifera,Tx:Chill 8 Wks	0.70	-7.60	-3.95	-0.74	1.99	6.43	10.94
Betula populifolia,Tx:Chill 8 Wks	-0.68	-11.41	-6.55	-1.86	0.74	4.00	6.87
Cornus racemosa, Tx: Chill 8 Wks	-0.68	-10.98	-6.69	-1.75	0.74	3.81	7.04
Salix purpurea, Tx: Chill 8 Wks	-0.53	-11.31	-6.52	-1.95	0.99	4.76	8.65
Sorbus americana, Tx: Chill 8 Wks	-0.61	-10.77	-6.46	-1.95	0.85	4.34	7.95

Table S9: Summary of model with the effects of false spring treatment and chilling duration across species on belowground to aboveground biomass ratio.

oss species on belowground to above	mean	2%	10%	25%	75%	90%	98%
Intercept	1.97	1.05	1.43	1.77	2.19	$\frac{3070}{2.52}$	2.85
Гх	-0.18	-0.53	-0.43	-0.27	-0.09	0.06	0.1
Chill 6 Wks	-0.13	-0.39	-0.43	-0.27	0.07	0.00	0.3
Chill 8 Wks	-0.03	-0.59	-0.21	-0.13	-0.05	0.21 0.13	0.3'
Γx:Chill 6 Wks	0.09	-0.66	-0.40	-0.09	0.29	0.13	0.83
Γx:Chill 8 Wks	0.06	-0.51	-0.32	-0.09	0.20	0.41	0.6
Intercept	1.85	0.94	1.33	1.64	2.05	2.38	2.6
Acer saccharinum,Intercept	0.44	-0.41	-0.12	0.22	0.66	1.02	1.4°
Alnus incana rugosa,Intercept	-1.27	-2.20	-1.87	-1.49	-1.04	-0.71	-0.3
Betula papyrifera,Intercept	0.50	-0.34	-0.07	0.29	0.71	1.09	1.4
Betula populifolia,Intercept	-0.06	-0.93	-0.63	-0.28	0.16	0.52	0.8
Cornus racemosa,Intercept	0.71	-0.21	0.12	0.48	0.10	1.30	1.6
	-0.41	-1.30	-0.98	-0.63	-0.18	0.15	0.5
Salix purpurea, Intercept	0.41	-0.39	-0.98	0.25	0.70	1.07	1.4
Sorbus americana, Intercept							
Viburnum dendatum,Intercept	-0.34	-1.23	-0.91 -0.34	-0.56	-0.12	0.22	0.5
Almos in some museus Tra	-0.05	-0.56		-0.11	0.03	0.17	0.3
Alnus incana rugosa,Tx	0.05	-0.32	-0.18	-0.03	0.12	0.34	0.5
Betula papyrifera,Tx	-0.02	-0.47	-0.28	-0.08	0.04	0.20	0.3
Betula populifolia,Tx	0.03	-0.33	-0.18	-0.04	0.08	0.28	0.4
Cornus racemosa,Tx	-0.01	-0.47	-0.30	-0.09	0.05	0.28	0.4
Salix purpurea,Tx	0.07	-0.22	-0.11	-0.01	0.13	0.34	0.5
Sorbus americana,Tx	-0.09	-0.61	-0.41	-0.16	0.00	0.10	0.2
$Viburnum\ dendatum, { m Tx}$	0.04	-0.30	-0.16	-0.02	0.10	0.29	0.4
Acer saccharinum, Chill 6 Wks	0.08	-0.27	-0.14	-0.02	0.14	0.41	0.6
Alnus incana rugosa, Chill 6 Wks	-0.02	-0.54	-0.32	-0.09	0.05	0.23	0.4
Betula papyrifera, Chill 6 Wks	-0.01	-0.46	-0.26	-0.07	0.06	0.23	0.4
Betula populifolia,Chill 6 Wks	0.01	-0.40	-0.22	-0.05	0.06	0.24	0.4
Cornus racemosa, Chill 6 Wks	0.05	-0.36	-0.20	-0.04	0.13	0.39	0.6
Salix purpurea, Chill 6 Wks	-0.06	-0.55	-0.35	-0.12	0.02	0.14	0.2
Sorbus americana, Chill 6 Wks	-0.02	-0.48	-0.27	-0.08	0.04	0.21	0.3
Viburnum dendatum, Chill 6 Wks	-0.04	-0.53	-0.31	-0.09	0.03	0.17	0.3
Acer saccharinum, Chill 8 Wks	-0.11	-0.78	-0.52	-0.23	0.02	0.21	0.3
Alnus incana rugosa, Chill 8 Wks	0.07	-0.50	-0.27	-0.06	0.19	0.47	0.7
Betula papyrifera, Chill 8 Wks	-0.09	-0.73	-0.48	-0.20	0.03	0.21	0.4
Betula populifolia,Chill 8 Wks	-0.11	-0.73	-0.51	-0.23	0.01	0.18	0.3
Cornus racemosa, Chill 8 Wks	0.34	-0.15	-0.04	0.09	0.52	0.91	1.2
Salix purpurea, Chill 8 Wks	-0.02	-0.58	-0.37	-0.12	0.08	0.29	0.4
Sorbus americana, Chill 8 Wks	-0.12	-0.74	-0.52	-0.23	0.01	0.19	0.3
Viburnum dendatum,Chill 8 Wks	0.05	-0.49	-0.26	-0.05	0.16	0.40	0.6
Acer saccharinum,Tx:Chill 6 Wks	0.64	-0.17	0.05	0.37	0.88	1.30	1.6
Alnus incana rugosa,Tx:Chill 6 Wks	-0.08	-0.96	-0.64	-0.31	0.14	0.52	0.8
Betula papyrifera,Tx:Chill 6 Wks	0.57	-0.21	0.01	0.31	0.80	1.23	1.5
Betula populifolia,Tx:Chill 6 Wks	0.00	-0.83	-0.55	-0.21	0.21	0.56	0.8
Cornus racemosa, Tx: Chill 6 Wks	-0.67	-1.70	-1.36	-0.92	-0.40	-0.07	0.1
Salix purpurea,Tx:Chill 6 Wks	-0.15	-1.02	-0.74	-0.36	0.07	0.40	0.6
Sorbus americana, Tx: Chill 6 Wks	-0.14	-1.02	-0.73	-0.35	0.08	0.43	0.7
	-0.13	-1.00	-0.71				0.7
Viburnum dendatum, Tx: Chill 6 Wks	-0.13	-1.00	-0.71	-0.35	0.09	0.44	0.1

Table S9: Summary of model with the effects of false spring treatment and chilling duration across species on belowground to aboveground biomass ratio.

	mean	2%	10%	25%	75%	90%	98%
Alnus incana rugosa,Tx:Chill 8 Wks	0.07	-0.62	-0.36	-0.07	0.21	0.54	0.80
Betula papyrifera,Tx:Chill 8 Wks	0.07	-0.54	-0.29	-0.06	0.20	0.52	0.82
Betula populifolia,Tx:Chill 8 Wks	0.06	-0.55	-0.31	-0.06	0.18	0.49	0.78
Cornus racemosa,Tx:Chill 8 Wks	-0.37	-1.49	-1.07	-0.58	-0.08	0.06	0.21
Salix purpurea, Tx: Chill 8 Wks	0.03	-0.61	-0.36	-0.09	0.14	0.44	0.71
Sorbus americana, Tx: Chill 8 Wks	-0.14	-0.92	-0.62	-0.28	0.01	0.24	0.46