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

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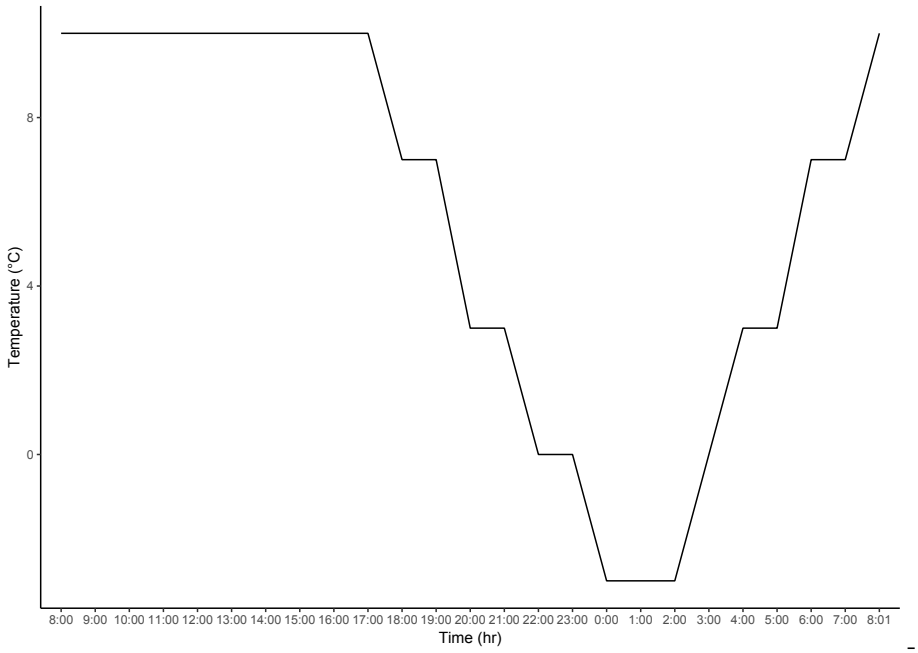
Supplemental Tables and Figures

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## Error in gsub("r_species[", "", modoutput$term):  invalid regular expression 'r_species[',
reason 'Missing ']
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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.

	mean	2%	10%	25%	75%	90%	98%

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%
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
r$_{species}$[*Acer saccharinum*, *Intercept*	-3.06	-7.74	-5.82	-4.12	-1.93	-0.40	0.75
r$_{species}$[*Alnus incana rugosa*, *Intercept*	4.39	0.17	1.66	3.33	5.44	7.19	8.51
r$_{species}$[*Betula papyrifera*, *Intercept*	0.96	-3.52	-1.86	-0.06	2.02	3.69	4.85
r$_{species}$[*Betula populifolia*, *Intercept*	0.20	-4.12	-2.47	-0.86	1.27	2.93	4.19
r$_{species}$[*Cornus racemosa*, *Intercept*	0.48	-3.87	-2.35	-0.54	1.57	3.10	4.26
r$_{species}$[*Salix purpurea*, *Intercept*	-5.49	-10.38	-8.46	-6.57	-4.33	-2.69	-1.40
r$_{species}$[*Sorbus americana*, *Intercept*	-1.14	-5.56	-3.88	-2.20	-0.07	1.60	2.79
r$_{species}$[*Viburnum dendatum*, *Intercept*	3.57	-0.78	0.80	2.51	4.67	6.29	7.69
r$_{species}$[*Acer saccharinum*, *Tx*	-0.36	-2.80	-1.82	-0.72	0.05	0.63	1.27
r$_{species}$[*Alnus incana rugosa*, *Tx*	0.37	-1.36	-0.73	-0.06	0.76	1.91	2.86
r$_{species}$[*Betula papyrifera*, *Tx*	0.45	-1.17	-0.54	-0.03	0.84	2.03	3.08
r$_{species}$[*Betula populifolia*, *Tx*	-0.43	-3.09	-1.97	-0.80	0.04	0.55	1.12
r$_{species}$[*Cornus racemosa*, *Tx*	0.00	-1.93	-1.15	-0.29	0.32	1.13	1.91
r$_{species}$[*Salix purpurea*, *Tx*	-0.14	-2.48	-1.59	-0.55	0.25	1.21	2.14
r$_{species}$[*Sorbus americana*, *Tx*	-0.21	-2.43	-1.57	-0.54	0.15	0.84	1.57
r$_{species}$[*Viburnum dendatum*, *Tx*	0.35	-1.38	-0.75	-0.10	0.74	1.93	2.86
r$_{species}$[*Acer saccharinum*, *Chill6Wks*	-0.13	-4.23	-2.82	-1.21	0.92	2.61	4.04
r$_{species}$[*Alnus incana rugosa*, *Chill6Wks*	-0.66	-4.71	-3.50	-1.71	0.41	2.10	3.53
r$_{species}$[*Betula papyrifera*, *Chill6Wks*	1.50	-2.35	-1.14	0.40	2.54	4.30	5.65
r$_{species}$[*Betula populifolia*, *Chill6Wks*	-0.59	-4.77	-3.43	-1.62	0.50	2.10	3.22
r$_{species}$[*Cornus racemosa*, *Chill6Wks*	0.46	-3.46	-2.14	-0.56	1.48	3.11	4.43
r$_{species}$[*Salix purpurea*, *Chill6Wks*	4.60	0.55	1.62	3.26	5.84	7.88	9.27
r$_{species}$[*Sorbus americana*, *Chill6Wks*	-2.20	-6.59	-5.11	-3.27	-1.02	0.45	1.44
r$_{species}$[*Viburnum dendatum*, *Chill6Wks*	-3.19	-7.67	-6.24	-4.28	-2.01	-0.48	0.62
r$_{species}$[*Acer saccharinum*, *Chill8Wks*	0.94	-2.40	-1.30	-0.02	1.85	3.42	4.57
r$_{species}$[*Alnus incana rugosa*, *Chill8Wks*	-1.32	-5.07	-3.77	-2.23	-0.38	1.04	2.09
r$_{species}$[*Betula papyrifera*, *Chill8Wks*	0.21	-3.49	-2.22	-0.68	1.12	2.52	3.77
r$_{species}$[*Betula populifolia*, *Chill8Wks*	-1.36	-5.28	-3.90	-2.25	-0.39	0.82	1.82
r$_{species}$[*Cornus racemosa*, *Chill8Wks*	0.61	-2.76	-1.58	-0.30	1.48	2.94	4.23
r$_{species}$[*Salix purpurea*, *Chill8Wks*	3.91	0.30	1.23	2.72	5.00	6.79	8.30
r$_{species}$[*Sorbus americana*, *Chill8Wks*	-0.51	-4.16	-2.86	-1.41	0.41	1.76	2.89
r$_{species}$[*Viburnum dendatum*, *Chill8Wks*	-2.54	-6.43	-5.09	-3.50	-1.50	-0.18	0.69
r$_{species}$[*Acer saccharinum*, *Tx* : *Chill6Wks*	-0.46	-4.34	-2.80	-0.98	0.16	1.15	2.08
r$_{species}$[*Alnus incana rugosa*, *Tx* : *Chill6Wks*	0.35	-2.54	-1.42	-0.27	0.89	2.66	4.38
r$_{species}$[*Betula papyrifera*, *Tx* : *Chill6Wks*	0.33	-2.71	-1.36	-0.22	0.85	2.44	3.77
r$_{species}$[*Betula populifolia*, *Tx* : *Chill6Wks*	-0.54	-4.45	-2.83	-1.05	0.11	1.06	2.03
r$_{species}$[*Cornus racemosa*, *Tx* : *Chill6Wks*	0.23	-2.65	-1.45	-0.26	0.69	2.25	3.58
r$_{species}$[*Salix purpurea*, *Tx* : *Chill6Wks*	1.07	-1.87	-0.80	0.02	1.84	4.03	5.96
r$_{species}$[*Sorbus americana*, *Tx* : *Chill6Wks*	-0.44	-3.99	-2.60	-0.97	0.16	1.13	2.24
r$_{species}$[*Viburnum dendatum*, *Tx* : *Chill6Wks*	-0.58	-4.61	-2.97	-1.16	0.10	1.07	2.17
r$_{species}$[*Acer saccharinum*, *Tx* : *Chill8Wks*	-0.05	-2.85	-1.67	-0.45	0.33	1.47	2.79
r$_{species}$[*Alnus incana rugosa*, *Tx* : *Chill8Wks*	0.12	-2.75	-1.46	-0.30	0.54	1.87	3.40

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%
$r_{species}[Betula\ papyrifera, Tx : Chill8Wks$	0.31	-1.95	-1.01	-0.16	0.72	2.14	3.56
$r_{species}[Betula\ populifolia, Tx : Chill8Wks$	-0.06	-2.98	-1.62	-0.43	0.33	1.43	2.66
$r_{species}[Cornus\ racemosa, Tx : Chill8Wks$	0.40	-1.62	-0.83	-0.10	0.75	2.28	3.86
$r_{species}[Salix\ purpurea, Tx : Chill8Wks$	-0.09	-3.49	-2.09	-0.58	0.43	1.75	2.95
$r_{species}[Sorbus\ americana, Tx : Chill8Wks$	-0.48	-4.01	-2.61	-0.90	0.08	0.80	1.61
$r_{species}[Viburnum\ dendatum, Tx : Chill8Wks$	-0.25	-3.57	-2.24	-0.67	0.26	1.25	2.36

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## Error in file(file, "rt"):  cannot open the connection

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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%
Intercept	16.02	12.46	13.60	15.08	16.90	18.52	20.23

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%
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
$r_{species}[Sorbus\ americana, Chill6Wks$	-2.20	-6.59	-5.11	-3.27	-1.02	0.45	1.44
$r_{species}[Viburnum\ dendatum, Chill6Wks$	-3.19	-7.67	-6.24	-4.28	-2.01	-0.48	0.62
$r_{species}[Acer\ saccharinum, Chill8Wks$	0.94	-2.40	-1.30	-0.02	1.85	3.42	4.57
$r_{species}[Alnus\ incana\ rugosa, Chill8Wks$	-1.32	-5.07	-3.77	-2.23	-0.38	1.04	2.09
$r_{species}[Betula\ papyrifera, Chill8Wks$	0.21	-3.49	-2.22	-0.68	1.12	2.52	3.77
$r_{species}[Betula\ populifolia, Chill8Wks$	-1.36	-5.28	-3.90	-2.25	-0.39	0.82	1.82
$r_{species}[Cornus\ racemosa, Chill8Wks$	0.61	-2.76	-1.58	-0.30	1.48	2.94	4.23
$r_{species}[Salix\ purpurea, Chill8Wks$	3.91	0.30	1.23	2.72	5.00	6.79	8.30
$r_{species}[Sorbus\ americana, Chill8Wks$	-0.51	-4.16	-2.86	-1.41	0.41	1.76	2.89
$r_{species}[Viburnum\ dendatum, Chill8Wks$	-2.54	-6.43	-5.09	-3.50	-1.50	-0.18	0.69
$r_{species}[Acer\ saccharinum, Tx : Chill6Wks$	-0.46	-4.34	-2.80	-0.98	0.16	1.15	2.08
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill6Wks$	0.35	-2.54	-1.42	-0.27	0.89	2.66	4.38
$r_{species}[Betula\ papyrifera, Tx : Chill6Wks$	0.33	-2.71	-1.36	-0.22	0.85	2.44	3.77
$r_{species}[Betula\ populifolia, Tx : Chill6Wks$	-0.54	-4.45	-2.83	-1.05	0.11	1.06	2.03
$r_{species}[Cornus\ racemosa, Tx : Chill6Wks$	0.23	-2.65	-1.45	-0.26	0.69	2.25	3.58
$r_{species}[Salix\ purpurea, Tx : Chill6Wks$	1.07	-1.87	-0.80	0.02	1.84	4.03	5.96
$r_{species}[Sorbus\ americana, Tx : Chill6Wks$	-0.44	-3.99	-2.60	-0.97	0.16	1.13	2.24
$r_{species}[Viburnum\ dendatum, Tx : Chill6Wks$	-0.58	-4.61	-2.97	-1.16	0.10	1.07	2.17
$r_{species}[Acer\ saccharinum, Tx : Chill8Wks$	-0.05	-2.85	-1.67	-0.45	0.33	1.47	2.79
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill8Wks$	0.12	-2.75	-1.46	-0.30	0.54	1.87	3.40
$r_{species}[Betula\ papyrifera, Tx : Chill8Wks$	0.31	-1.95	-1.01	-0.16	0.72	2.14	3.56
$r_{species}[Betula\ populifolia, Tx : Chill8Wks$	-0.06	-2.98	-1.62	-0.43	0.33	1.43	2.66
$r_{species}[Cornus\ racemosa, Tx : Chill8Wks$	0.40	-1.62	-0.83	-0.10	0.75	2.28	3.86
$r_{species}[Salix\ purpurea, Tx : Chill8Wks$	-0.09	-3.49	-2.09	-0.58	0.43	1.75	2.95
$r_{species}[Sorbus\ americana, Tx : Chill8Wks$	-0.48	-4.01	-2.61	-0.90	0.08	0.80	1.61
$r_{species}[Viburnum\ dendatum, Tx : Chill8Wks$	-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.

	mean	2%	10%	25%	75%	90%	98%

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```

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

	mean	2%	10%	25%	75%	90%	98%
Intercept	16.02	12.46	13.60	15.08	16.90	18.52	20.23

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

	mean	2%	10%	25%	75%	90%	98%
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
r$_s$*pecies*[*Cornus racemosa*, $Tx : Chill8Wks$	0.40	-1.62	-0.83	-0.10	0.75	2.28	3.86
r$_s$*pecies*[*Salix purpurea*, $Tx : Chill8Wks$	-0.09	-3.49	-2.09	-0.58	0.43	1.75	2.95
r$_s$*pecies*[*Sorbus americana*, $Tx : Chill8Wks$	-0.48	-4.01	-2.61	-0.90	0.08	0.80	1.61
r$_s$*pecies*[*Viburnum dendatum*, $Tx : Chill8Wks$	-0.25	-3.57	-2.24	-0.67	0.26	1.25	2.36

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

	mean	2%	10%	25%	75%	90%	98%

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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%
Intercept	30.16	23.88	26.03	28.65	31.70	34.08	36.04
Tx	-0.32	-2.16	-1.59	-0.84	0.18	0.94	1.53
Chill 6 Wks	0.11	-1.86	-1.20	-0.45	0.66	1.49	2.22
Chill 8 Wks	0.61	-1.49	-0.81	0.03	1.15	2.12	3.00
Tx:Chill 6 Wks	-0.82	-3.42	-2.69	-1.61	-0.07	1.14	2.12
Tx:Chill 8 Wks	-1.97	-4.48	-3.67	-2.66	-1.27	-0.26	0.52
Intercept	29.77	23.73	25.79	28.36	31.27	33.56	35.47
$r_{species}[Acer\ saccharinum, Intercept$	-5.14	-11.39	-9.18	-6.71	-3.62	-0.95	1.16
$r_{species}[Alnus\ incana\ rugosa, Intercept$	6.38	0.27	2.31	4.74	7.95	10.74	12.82
$r_{species}[Betula\ papyrifera, Intercept$	-1.61	-7.66	-5.57	-3.24	-0.08	2.62	4.70
$r_{species}[Betula\ populifolia, Intercept$	1.40	-4.47	-2.63	-0.23	2.88	5.66	7.77
$r_{species}[Cornus\ racemosa, Intercept$	1.69	-4.55	-2.33	0.09	3.28	5.88	8.11
$r_{species}[NYSSYL, Intercept$	-2.28	-11.59	-8.71	-4.83	0.34	3.97	6.94
$r_{species}[Salix\ purpurea, Intercept$	12.96	6.80	8.90	11.28	14.54	17.38	19.44
$r_{species}[Sorbus\ americana, Intercept$	-6.48	-12.54	-10.51	-8.10	-4.90	-2.28	-0.09
$r_{species}[Viburnum\ dendatum, Intercept$	-4.13	-10.23	-8.19	-5.71	-2.58	0.12	2.31
$r_{species}[Acer\ saccharinum, Tx$	0.02	-1.90	-1.00	-0.24	0.30	1.03	1.74
$r_{species}[Alnus\ incana\ rugosa, Tx$	-0.06	-1.95	-1.21	-0.34	0.22	0.99	1.83
$r_{species}[Betula\ papyrifera, Tx$	-0.23	-2.52	-1.50	-0.48	0.09	0.64	1.23
$r_{species}[Betula\ populifolia, Tx$	-0.15	-2.26	-1.30	-0.41	0.14	0.76	1.34
$r_{species}[Cornus\ racemosa, Tx$	0.03	-1.76	-1.00	-0.24	0.30	1.11	1.96
$r_{species}[NYSSYL, Tx$	0.04	-2.58	-1.31	-0.26	0.36	1.38	2.56
$r_{species}[Salix\ purpurea, Tx$	-0.47	-3.24	-2.13	-0.88	0.04	0.61	1.26
$r_{species}[Sorbus\ americana, Tx$	0.29	-1.29	-0.65	-0.08	0.60	1.61	2.54
$r_{species}[Viburnum\ dendatum, Tx$	0.28	-1.16	-0.59	-0.06	0.58	1.56	2.37
$r_{species}[Acer\ saccharinum, Chill6Wks$	0.29	-1.96	-1.05	-0.16	0.74	1.85	2.94
$r_{species}[Alnus\ incana\ rugosa, Chill6Wks$	-0.70	-4.26	-2.80	-1.23	-0.00	0.62	1.35
$r_{species}[Betula\ papyrifera, Chill6Wks$	0.56	-1.37	-0.62	-0.03	1.02	2.45	3.73
$r_{species}[Betula\ populifolia, Chill6Wks$	0.23	-1.99	-1.14	-0.24	0.63	1.97	3.16
$r_{species}[Cornus\ racemosa, Chill6Wks$	-0.48	-3.51	-2.30	-0.93	0.08	0.78	1.59
$r_{species}[NYSSYL, Chill6Wks$	0.09	-3.70	-1.86	-0.40	0.58	2.20	3.95
$r_{species}[Salix\ purpurea, Chill6Wks$	-0.85	-4.26	-3.04	-1.46	-0.03	0.56	1.36
$r_{species}[Sorbus\ americana, Chill6Wks$	0.02	-2.97	-1.64	-0.39	0.49	1.54	2.45
$r_{species}[Viburnum\ dendatum, Chill6Wks$	0.26	-2.02	-1.09	-0.18	0.71	1.83	2.87
$r_{species}[Acer\ saccharinum, Chill8Wks$	-0.05	-2.81	-1.71	-0.50	0.42	1.54	2.39
$r_{species}[Alnus\ incana\ rugosa, Chill8Wks$	0.25	-2.45	-1.31	-0.26	0.77	2.01	3.18
$r_{species}[Betula\ papyrifera, Chill8Wks$	0.10	-2.66	-1.47	-0.36	0.56	1.76	2.77
$r_{species}[Betula\ populifolia, Chill8Wks$	-0.01	-2.78	-1.64	-0.46	0.49	1.58	2.50
$r_{species}[Cornus\ racemosa, Chill8Wks$	1.03	-0.94	-0.31	0.11	1.71	3.26	4.41
$r_{species}[NYSSYL, Chill8Wks$	-0.04	-4.58	-2.54	-0.63	0.58	2.39	4.46
$r_{species}[Salix\ purpurea, Chill8Wks$	-0.43	-3.85	-2.59	-1.00	0.25	1.22	2.06
$r_{species}[Sorbus\ americana, Chill8Wks$	-0.80	-4.37	-3.01	-1.40	-0.01	0.64	1.32
$r_{species}[Viburnum\ dendatum, Chill8Wks$	-0.80	-4.46	-2.97	-1.36	-0.02	0.56	1.24
$r_{species}[Acer\ saccharinum, Tx : Chill6Wks$	0.03	-3.29	-1.89	-0.48	0.59	1.84	2.91

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%
$r_{species}[Alnus\ incana\ rugosa, Tx:Chill6Wks$	0.07	-3.15	-1.94	-0.54	0.59	2.27	3.94
$r_{species}[Betula\ papyrifera, Tx:Chill6Wks$	-0.09	-3.57	-2.04	-0.57	0.48	1.63	2.82
$r_{species}[Betula\ populifolia, Tx:Chill6Wks$	-0.95	-5.67	-3.62	-1.58	-0.02	0.62	1.42
$r_{species}[Cornus\ racemosa, Tx:Chill6Wks$	0.14	-2.87	-1.64	-0.43	0.69	2.14	3.42
$r_{species}[NYSSYL, Tx:Chill6Wks$	0.10	-4.63	-2.38	-0.55	0.74	2.73	5.13
$r_{species}[Salix\ purpurea, Tx:Chill6Wks$	-1.34	-6.10	-4.38	-2.27	-0.12	0.61	1.50
$r_{species}[Sorbus\ americana, Tx:Chill6Wks$	0.85	-1.78	-0.84	0.00	1.50	3.37	4.90
$r_{species}[Viburnum\ dendatum, Tx:Chill6Wks$	0.20	-3.03	-1.62	-0.35	0.75	2.15	3.38
$r_{species}[Acer\ saccharinum, Tx:Chill8Wks$	0.01	-2.43	-1.28	-0.29	0.32	1.26	2.33
$r_{species}[Alnus\ incana\ rugosa, Tx:Chill8Wks$	0.03	-2.19	-1.30	-0.28	0.36	1.30	2.38

```
## Error in file(file, "rt"):  cannot open the connection

## Error in ‘$<-.data.frame‘(‘*tmp*‘, term, value = character(0)):  replacement has 0 rows,
data has 54

## Error in gsub("r_species[", "", modoutput$term):  invalid regular expression ’r_species[’,
reason ’Missing ’]■

## Error in ‘$<-.data.frame‘(‘*tmp*‘, term, value = character(0)):  replacement has 0 rows,
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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%
Intercept	30.16	23.88	26.03	28.65	31.70	34.08	36.04

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%
Tx	-0.32	-2.16	-1.59	-0.84	0.18	0.94	1.53
Chill 6 Wks	0.11	-1.86	-1.20	-0.45	0.66	1.49	2.22
Chill 8 Wks	0.61	-1.49	-0.81	0.03	1.15	2.12	3.00
Tx:Chill 6 Wks	-0.82	-3.42	-2.69	-1.61	-0.07	1.14	2.12
Tx:Chill 8 Wks	-1.97	-4.48	-3.67	-2.66	-1.27	-0.26	0.52
$r_{species}[Betula\ populifolia, Chill6Wks$	0.23	-1.99	-1.14	-0.24	0.63	1.97	3.16
$r_{species}[Cornus\ racemosa, Chill6Wks$	-0.48	-3.51	-2.30	-0.93	0.08	0.78	1.59
$r_{species}[NYSSYL, Chill6Wks$	0.09	-3.70	-1.86	-0.40	0.58	2.20	3.95
$r_{species}[Salix\ purpurea, Chill6Wks$	-0.85	-4.26	-3.04	-1.46	-0.03	0.56	1.36
$r_{species}[Sorbus\ americana, Chill6Wks$	0.02	-2.97	-1.64	-0.39	0.49	1.54	2.45
$r_{species}[Viburnum\ dendatum, Chill6Wks$	0.26	-2.02	-1.09	-0.18	0.71	1.83	2.87
$r_{species}[Acer\ saccharinum, Chill8Wks$	-0.05	-2.81	-1.71	-0.50	0.42	1.54	2.39
$r_{species}[Alnus\ incana\ rugosa, Chill8Wks$	0.25	-2.45	-1.31	-0.26	0.77	2.01	3.18
$r_{species}[Betula\ papyrifera, Chill8Wks$	0.10	-2.66	-1.47	-0.36	0.56	1.76	2.77
$r_{species}[Betula\ populifolia, Chill8Wks$	-0.01	-2.78	-1.64	-0.46	0.49	1.58	2.50
$r_{species}[Cornus\ racemosa, Chill8Wks$	1.03	-0.94	-0.31	0.11	1.71	3.26	4.41
$r_{species}[NYSSYL, Chill8Wks$	-0.04	-4.58	-2.54	-0.63	0.58	2.39	4.46
$r_{species}[Salix\ purpurea, Chill8Wks$	-0.43	-3.85	-2.59	-1.00	0.25	1.22	2.06
$r_{species}[Sorbus\ americana, Chill8Wks$	-0.80	-4.37	-3.01	-1.40	-0.01	0.64	1.32
$r_{species}[Viburnum\ dendatum, Chill8Wks$	-0.80	-4.46	-2.97	-1.36	-0.02	0.56	1.24
$r_{species}[Acer\ saccharinum, Tx:Chill6Wks$	0.03	-3.29	-1.89	-0.48	0.59	1.84	2.91
$r_{species}[Alnus\ incana\ rugosa, Tx:Chill6Wks$	0.07	-3.15	-1.94	-0.54	0.59	2.27	3.94
$r_{species}[Betula\ papyrifera, Tx:Chill6Wks$	-0.09	-3.57	-2.04	-0.57	0.48	1.63	2.82
$r_{species}[Betula\ populifolia, Tx:Chill6Wks$	-0.95	-5.67	-3.62	-1.58	-0.02	0.62	1.42
$r_{species}[Cornus\ racemosa, Tx:Chill6Wks$	0.14	-2.87	-1.64	-0.43	0.69	2.14	3.42
$r_{species}[NYSSYL, Tx:Chill6Wks$	0.10	-4.63	-2.38	-0.55	0.74	2.73	5.13
$r_{species}[Salix\ purpurea, Tx:Chill6Wks$	-1.34	-6.10	-4.38	-2.27	-0.12	0.61	1.50
$r_{species}[Sorbus\ americana, Tx:Chill6Wks$	0.85	-1.78	-0.84	0.00	1.50	3.37	4.90
$r_{species}[Viburnum\ dendatum, Tx:Chill6Wks$	0.20	-3.03	-1.62	-0.35	0.75	2.15	3.38
$r_{species}[Acer\ saccharinum, Tx:Chill8Wks$	0.01	-2.43	-1.28	-0.29	0.32	1.26	2.33
$r_{species}[Alnus\ incana\ rugosa, Tx:Chill8Wks$	0.03	-2.19	-1.30	-0.28	0.36	1.30	2.38

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%

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## Error in file(file, "rt"):  cannot open the connection

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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%
Intercept	30.16	23.88	26.03	28.65	31.70	34.08	36.04

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%
Tx	-0.32	-2.16	-1.59	-0.84	0.18	0.94	1.53
Chill 6 Wks	0.11	-1.86	-1.20	-0.45	0.66	1.49	2.22
Chill 8 Wks	0.61	-1.49	-0.81	0.03	1.15	2.12	3.00
Tx:Chill 6 Wks	-0.82	-3.42	-2.69	-1.61	-0.07	1.14	2.12
Tx:Chill 8 Wks	-1.97	-4.48	-3.67	-2.66	-1.27	-0.26	0.52
$r_{species}[Sorbus\ americana, Tx:Chill6Wks$	0.85	-1.78	-0.84	0.00	1.50	3.37	4.90
$r_{species}[Viburnum\ dendatum, Tx:Chill6Wks$	0.20	-3.03	-1.62	-0.35	0.75	2.15	3.38
$r_{species}[Acer\ saccharinum, Tx:Chill8Wks$	0.01	-2.43	-1.28	-0.29	0.32	1.26	2.33
$r_{species}[Alnus\ incana\ rugosa, Tx:Chill8Wks$	0.03	-2.19	-1.30	-0.28	0.36	1.30	2.38

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%

```
## Error in file(file, "rt"):  cannot open the connection

## Error in `$<-.data.frame`(`*tmp*`, term, value = character(0)):  replacement has 0 rows,
data has 54

## Error in gsub("r_species[", "", modoutput$term):  invalid regular expression 'r_species[',
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## Error in `$<-.data.frame`(`*tmp*`, term, value = character(0)):  replacement has 0 rows,
data has 54
```

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%
Intercept	30.16	23.88	26.03	28.65	31.70	34.08	36.04

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%
Tx	-0.32	-2.16	-1.59	-0.84	0.18	0.94	1.53
Chill 6 Wks	0.11	-1.86	-1.20	-0.45	0.66	1.49	2.22
Chill 8 Wks	0.61	-1.49	-0.81	0.03	1.15	2.12	3.00
Tx:Chill 6 Wks	-0.82	-3.42	-2.69	-1.61	-0.07	1.14	2.12
Tx:Chill 8 Wks	-1.97	-4.48	-3.67	-2.66	-1.27	-0.26	0.52

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%

```
## Error in gsub("r_species[", "", modoutput$term):  invalid regular expression 'r_species[',
reason 'Missing ']■
```

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%
Intercept	49.26	27.73	34.80	43.68	55.16	63.02	69.20
Tx	-3.41	-9.89	-8.08	-5.27	-1.55	1.15	3.47
Chill 6 Wks	0.39	-6.74	-4.36	-1.55	2.29	5.20	7.81
Chill 8 Wks	2.58	-4.64	-2.31	0.55	4.56	7.58	9.92
Tx:Chill 6 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	62.43	68.15
$r_{species}[Acer\ saccharinum, Intercept$	3.91	-16.51	-10.19	-2.04	9.57	18.72	26.20
$r_{species}[Alnus\ incana\ rugosa, Intercept$	43.69	23.67	29.56	37.62	49.34	58.87	66.02
$r_{species}[Betula\ papyrifera, Intercept$	-13.61	-33.58	-27.43	-19.46	-7.89	1.31	8.48
$r_{species}[Betula\ populifolia, Intercept$	6.46	-13.58	-7.58	0.46	12.18	21.50	28.50
$r_{species}[Cornus\ racemosa, Intercept$	-3.40	-23.25	-17.50	-9.36	2.25	11.53	18.08
$r_{species}[Salix\ purpurea, Intercept$	36.46	16.89	22.39	30.53	42.05	51.62	59.11
$r_{species}[Sorbus\ americana, Intercept$	-30.68	-50.72	-44.79	-36.60	-24.97	-15.66	-8.88
$r_{species}[Viburnum\ dendatum, Intercept$	-14.67	-34.35	-28.81	-20.56	-8.91	0.09	6.99
$r_{species}[Acer\ saccharinum, Tx$	-0.29	-6.96	-3.85	-1.04	0.56	2.71	5.05
$r_{species}[Alnus\ incana\ rugosa, Tx$	0.42	-5.60	-3.06	-0.63	1.31	4.62	7.89
$r_{species}[Betula\ papyrifera, Tx$	0.08	-5.79	-3.25	-0.71	0.88	3.53	6.24
$r_{species}[Betula\ populifolia, Tx$	0.53	-4.48	-2.32	-0.39	1.28	4.26	7.61
$r_{species}[Cornus\ racemosa, Tx$	-0.56	-7.56	-4.32	-1.35	0.38	2.32	4.50
$r_{species}[Salix\ purpurea, Tx$	-0.44	-7.54	-4.49	-1.31	0.56	2.88	5.10
$r_{species}[Sorbus\ americana, Tx$	-0.14	-6.77	-3.80	-0.96	0.73	3.20	5.86
$r_{species}[Viburnum\ dendatum, Tx$	0.43	-4.76	-2.59	-0.50	1.17	4.45	7.28
$r_{species}[Acer\ saccharinum, Chill6Wks$	1.49	-4.32	-2.04	-0.18	2.63	7.53	12.00
$r_{species}[Alnus\ incana\ rugosa, Chill6Wks$	-1.69	-12.66	-8.10	-3.19	0.21	2.61	5.31
$r_{species}[Betula\ papyrifera, Chill6Wks$	-0.92	-10.34	-6.41	-2.09	0.51	3.07	5.56
$r_{species}[Betula\ populifolia, Chill6Wks$	-0.28	-8.41	-4.88	-1.39	0.88	3.90	7.16
$r_{species}[Cornus\ racemosa, Chill6Wks$	-0.49	-9.07	-5.41	-1.55	0.75	3.71	6.46
$r_{species}[Salix\ purpurea, Chill6Wks$	-0.30	-8.90	-5.43	-1.53	0.94	4.43	8.05
$r_{species}[Sorbus\ americana, Chill6Wks$	1.26	-5.46	-2.72	-0.29	2.50	7.02	11.38
$r_{species}[Viburnum\ dendatum, Chill6Wks$	0.53	-6.88	-3.62	-0.69	1.65	5.56	8.91
$r_{species}[Acer\ saccharinum, Chill8Wks$	0.20	-8.38	-4.85	-1.16	1.54	5.38	8.77
$r_{species}[Alnus\ incana\ rugosa, Chill8Wks$	-0.77	-10.60	-6.71	-2.42	0.93	4.44	7.95
$r_{species}[Betula\ papyrifera, Chill8Wks$	1.38	-5.93	-2.93	-0.30	2.96	7.05	10.73
$r_{species}[Betula\ populifolia, Chill8Wks$	-1.31	-10.81	-7.20	-2.78	0.35	2.79	5.61
$r_{species}[Cornus\ racemosa, Chill8Wks$	1.61	-5.17	-2.47	-0.15	2.95	7.54	11.45
$r_{species}[Salix\ purpurea, Chill8Wks$	-2.99	-14.97	-10.63	-4.98	-0.19	1.50	3.55
$r_{species}[Sorbus\ americana, Chill8Wks$	0.01	-8.73	-5.36	-1.41	1.56	4.97	7.88
$r_{species}[Viburnum\ dendatum, Chill8Wks$	1.28	-5.84	-2.93	-0.33	2.72	6.88	10.76
$r_{species}[Acer\ saccharinum, Tx : Chill6Wks$	-0.87	-12.34	-7.31	-2.28	0.77	4.21	7.46
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill6Wks$	-1.82	-14.80	-9.63	-3.66	0.42	3.50	6.71
$r_{species}[Betula\ papyrifera, Tx : Chill6Wks$	-1.98	-14.88	-9.48	-3.64	0.23	2.68	5.21
$r_{species}[Betula\ populifolia, Tx : Chill6Wks$	0.98	-7.16	-4.01	-0.64	2.40	7.27	11.84
$r_{species}[Cornus\ racemosa, Tx : Chill6Wks$	0.56	-8.13	-4.51	-0.98	2.00	6.60	11.47

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%
$r_{species}[Salix\ purpurea, Tx : Chill6Wks$	0.63	-8.71	-4.93	-1.04	2.18	7.06	11.90
$r_{species}[Sorbus\ americana, Tx : Chill6Wks$	0.64	-8.68	-4.76	-0.95	2.14	6.73	11.31
$r_{species}[Viburnum\ dendatum, Tx : Chill6Wks$	1.51	-6.58	-3.41	-0.42	3.08	8.77	13.43
$r_{species}[Acer\ saccharinum, Tx : Chill8Wks$	1.71	-4.94	-2.42	-0.21	3.14	8.66	13.63
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill8Wks$	0.49	-8.70	-5.08	-1.10	2.01	6.60	11.66
$r_{species}[Betula\ papyrifera, Tx : Chill8Wks$	0.70	-7.60	-3.95	-0.74	1.99	6.43	10.94
$r_{species}[Betula\ populifolia, Tx : Chill8Wks$	-0.68	-11.41	-6.55	-1.86	0.74	4.00	6.87
$r_{species}[Cornus\ racemosa, Tx : Chill8Wks$	-0.68	-10.98	-6.69	-1.75	0.74	3.81	7.04
$r_{species}[Salix\ purpurea, Tx : Chill8Wks$	-0.53	-11.31	-6.52	-1.95	0.99	4.76	8.65
$r_{species}[Sorbus\ americana, Tx : Chill8Wks$	-0.61	-10.77	-6.46	-1.95	0.85	4.34	7.95

```
## Error in gsub("r\\_species[", "", modoutput$term):  invalid regular expression 'r\_species[',
reason 'Missing ']
```

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%
Intercept	49.26	27.73	34.80	43.68	55.16	63.02	69.20
Tx	-3.41	-9.89	-8.08	-5.27	-1.55	1.15	3.47
Chill 6 Wks	0.39	-6.74	-4.36	-1.55	2.29	5.20	7.81
Chill 8 Wks	2.58	-4.64	-2.31	0.55	4.56	7.58	9.92
Tx:Chill 6 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	62.43	68.15
$r_{species}[Acer\ saccharinum, Intercept$	3.91	-16.51	-10.19	-2.04	9.57	18.72	26.20
$r_{species}[Alnus\ incana\ rugosa, Intercept$	43.69	23.67	29.56	37.62	49.34	58.87	66.02
$r_{species}[Betula\ papyrifera, Intercept$	-13.61	-33.58	-27.43	-19.46	-7.89	1.31	8.48
$r_{species}[Betula\ populifolia, Intercept$	6.46	-13.58	-7.58	0.46	12.18	21.50	28.50
$r_{species}[Cornus\ racemosa, Intercept$	-3.40	-23.25	-17.50	-9.36	2.25	11.53	18.08
$r_{species}[Salix\ purpurea, Intercept$	36.46	16.89	22.39	30.53	42.05	51.62	59.11
$r_{species}[Sorbus\ americana, Intercept$	-30.68	-50.72	-44.79	-36.60	-24.97	-15.66	-8.88
$r_{species}[Viburnum\ dendatum, Intercept$	-14.67	-34.35	-28.81	-20.56	-8.91	0.09	6.99
$r_{species}[Acer\ saccharinum, Tx$	-0.29	-6.96	-3.85	-1.04	0.56	2.71	5.05
$r_{species}[Alnus\ incana\ rugosa, Tx$	0.42	-5.60	-3.06	-0.63	1.31	4.62	7.89
$r_{species}[Betula\ papyrifera, Tx$	0.08	-5.79	-3.25	-0.71	0.88	3.53	6.24
$r_{species}[Betula\ populifolia, Tx$	0.53	-4.48	-2.32	-0.39	1.28	4.26	7.61
$r_{species}[Cornus\ racemosa, Tx$	-0.56	-7.56	-4.32	-1.35	0.38	2.32	4.50
$r_{species}[Salix\ purpurea, Tx$	-0.44	-7.54	-4.49	-1.31	0.56	2.88	5.10
$r_{species}[Sorbus\ americana, Tx$	-0.14	-6.77	-3.80	-0.96	0.73	3.20	5.86
$r_{species}[Viburnum\ dendatum, Tx$	0.43	-4.76	-2.59	-0.50	1.17	4.45	7.28
$r_{species}[Acer\ saccharinum, Chill6Wks$	1.49	-4.32	-2.04	-0.18	2.63	7.53	12.00
$r_{species}[Alnus\ incana\ rugosa, Chill6Wks$	-1.69	-12.66	-8.10	-3.19	0.21	2.61	5.31
$r_{species}[Betula\ papyrifera, Chill6Wks$	-0.92	-10.34	-6.41	-2.09	0.51	3.07	5.56
$r_{species}[Betula\ populifolia, Chill6Wks$	-0.28	-8.41	-4.88	-1.39	0.88	3.90	7.16
$r_{species}[Cornus\ racemosa, Chill6Wks$	-0.49	-9.07	-5.41	-1.55	0.75	3.71	6.46
$r_{species}[Salix\ purpurea, Chill6Wks$	-0.30	-8.90	-5.43	-1.53	0.94	4.43	8.05
$r_{species}[Sorbus\ americana, Chill6Wks$	1.26	-5.46	-2.72	-0.29	2.50	7.02	11.38
$r_{species}[Viburnum\ dendatum, Chill6Wks$	0.53	-6.88	-3.62	-0.69	1.65	5.56	8.91
$r_{species}[Acer\ saccharinum, Chill8Wks$	0.20	-8.38	-4.85	-1.16	1.54	5.38	8.77
$r_{species}[Alnus\ incana\ rugosa, Chill8Wks$	-0.77	-10.60	-6.71	-2.42	0.93	4.44	7.95
$r_{species}[Betula\ papyrifera, Chill8Wks$	1.38	-5.93	-2.93	-0.30	2.96	7.05	10.73
$r_{species}[Betula\ populifolia, Chill8Wks$	-1.31	-10.81	-7.20	-2.78	0.35	2.79	5.61
$r_{species}[Cornus\ racemosa, Chill8Wks$	1.61	-5.17	-2.47	-0.15	2.95	7.54	11.45
$r_{species}[Salix\ purpurea, Chill8Wks$	-2.99	-14.97	-10.63	-4.98	-0.19	1.50	3.55
$r_{species}[Sorbus\ americana, Chill8Wks$	0.01	-8.73	-5.36	-1.41	1.56	4.97	7.88
$r_{species}[Viburnum\ dendatum, Chill8Wks$	1.28	-5.84	-2.93	-0.33	2.72	6.88	10.76
$r_{species}[Acer\ saccharinum, Tx : Chill6Wks$	-0.87	-12.34	-7.31	-2.28	0.77	4.21	7.46
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill6Wks$	-1.82	-14.80	-9.63	-3.66	0.42	3.50	6.71
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$r_{species}[Betula\ populifolia, Tx : Chill6Wks$	0.98	-7.16	-4.01	-0.64	2.40	7.27	11.84
$r_{species}[Cornus\ racemosa, Tx : Chill6Wks$	0.56	-8.13	-4.51	-0.98	2.00	6.60	11.47

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%
$r_{species}[Salix\ purpurea, Tx : Chill6Wks$	0.63	-8.71	-4.93	-1.04	2.18	7.06	11.90
$r_{species}[Sorbus\ americana, Tx : Chill6Wks$	0.64	-8.68	-4.76	-0.95	2.14	6.73	11.31
$r_{species}[Viburnum\ dendatum, Tx : Chill6Wks$	1.51	-6.58	-3.41	-0.42	3.08	8.77	13.43
$r_{species}[Acer\ saccharinum, Tx : Chill8Wks$	1.71	-4.94	-2.42	-0.21	3.14	8.66	13.63
$r_{species}[Alnus\ incana\ rugosa, Tx : Chill8Wks$	0.49	-8.70	-5.08	-1.10	2.01	6.60	11.66
$r_{species}[Betula\ papyrifera, Tx : Chill8Wks$	0.70	-7.60	-3.95	-0.74	1.99	6.43	10.94
$r_{species}[Betula\ populifolia, Tx : Chill8Wks$	-0.68	-11.41	-6.55	-1.86	0.74	4.00	6.87
$r_{species}[Cornus\ racemosa, Tx : Chill8Wks$	-0.68	-10.98	-6.69	-1.75	0.74	3.81	7.04
$r_{species}[Salix\ purpurea, Tx : Chill8Wks$	-0.53	-11.31	-6.52	-1.95	0.99	4.76	8.65
$r_{species}[Sorbus\ americana, Tx : Chill8Wks$	-0.61	-10.77	-6.46	-1.95	0.85	4.34	7.95