Table 1 Suppl. Meteorological conditions during the sampling of *T. baccata* needles. The period from May of the current year to April of the following year was assumed as a season. Means ± SE.

Season	Temperature [°C]			Precipitation [mm]	
	mean	maximum	minimum	mean	sum
2013/14	10.52 ± 0.379	20.41 ± 0.456	3.09 ± 0.353	13.71 ± 1.055	718.4
2014/15	10.35 ± 0.378	19.85 ± 0.439	3.31 ± 0.366	14.47 ± 0.826	763.3
2015/16	10.77 ± 0.396	20.73 ± 0.480	2.87 ± 0.370	14.35 ± 0.820	748.8

Table 2 Suppl. Pearson's correlations coefficients between the content of dry mass, total free amino acids, soluble and insoluble proteins, and soluble and insoluble carbohydrates in *T. baccata* male (M) and female (F) needles of three age classes (0, 1, and 2) and meteorological conditions: the mean daily temperature on 7 d preceding the day of collection of plant material, the minimum and maximum temperature, and the total precipitation on 7 d before each date of sample collection. M - male individuals, F - female individuals, d.m. - dry mass, asterisk (*) indicate $p < 0.05$.

	Gender	Needle age	Temperature max	mean	min	Sum of precipitation
Dry mass	F	0	-0.478	-0.676 *	-0.776 *	-0.094
[% of f.m.]		1	-0.241	-0.339	-0.346	0.191
		2	-0.083	-0.151	-0.163	-0.030
	M	0	-0.415	-0.619 *	-0.720 *	0.014
		1	-0.261	-0.370	-0.371	0.145
		2	-0.117	-0.184	-0.195	0.016
Soluble proteins	F	0	-0.634 *	-0.480	-0.401	-0.399
[mg g^{-1}(d.m.)]		1	-0.638 *	-0.740 *	-0.756 *	-0.290
		2	-0.431 *	-0.366	-0.401	-0.069
	M	0	-0.297	-0.302	-0.285	-0.637 *
		1	-0.738 *	-0.760 *	-0.711 *	-0.368
		2	-0.418	-0.435 *	-0.493 *	-0.108
Insoluble proteins	F	0	0.355	0.448	0.534	-0.032
[mg g^{-1}(d.m.)]		1	-0.267	-0.333	-0.357	-0.116
		2	-0.021	0.077	0.048	-0.192
	M	0	0.084	0.061	0.110	-0.318
		1	-0.167	-0.104	-0.054	0.022
		2	-0.256	-0.224	-0.265	-0.102
Free amino acids	F	0	0.512	0.449	0.477	0.331
[mg g^{1}(d.m.)]		1	0.440 *	0.358	0.314	0.542 *
		2	0.113	0.081	0.028	0.457 *
	M	0	0.235	0.024	-0.046	0.085
		1	0.354	0.238	0.188	0.387
		2	-0.073	-0.118	-0.194	0.281
Soluble carbohydrates	F	0	-0.635 *	-0.632 *	-0.616 *	-0.040
[mg g^{-1}(d.m.)]		1	-0.438 *	-0.478 *	-0.501 *	-0.067
		2	-0.300	-0.257	-0.291	0.008
	M	0	-0.752 *	-0.692 *	-0.632 *	-0.018
		1	-0.499 *	-0.410	-0.329	-0.170
		2	0.012	0.049	0.011	-0.143
Insoluble carbohydrates	F	0	0.432	0.322	0.212	0.342
[mg g^{-1}(d.m.)]		1	0.293	0.271	0.249	0.257
		2	0.204	0.175	0.226	0.099
	M	0	0.406	0.257	0.172	0.608 *
		1	0.237	0.192	0.182	0.205
		2	0.244	0.213	0.248	0.004

Table 3 Suppl. The long term mean content (± SE) of dry mass, total free amino acids, soluble and insoluble proteins, and soluble and insoluble carbohydrates in male (M) and female (F) *T. baccata* needles of three age classes (0, 1, and 2). The means with the same letters are not significantly different ($P > 0.05$) by gender (*lowercase letters*) or by needle age (*uppercase letters*).

	Gender	Needle age			
		0	1	2	all
Dry mass	M	33.05 ± 0.815^{aA}	35.16 ± 0.437^{aA}	35.40 ± 0.401^{aA}	34.75 ± 0.301^{a}
[% of f.m.]	F	32.02 ± 0.747^{aB}	35.33 ± 0.384^{aA}	35.37 ± 0.400^{aA}	34.57 ± 0.286^{a}
	Mean	32.53 ± 0.553^{B}	35.24 ± 0.290^{A}	35.39 ± 0.283^{A}	34.66 ± 0.207
Soluble proteins	M	11.33 ± 0.428^{aA}	10.93 ± 0.296^{aA}	10.37 ± 0.256^{aA}	10.82 ± 0.182^{a}
[mg g^{-1}(d.m.)]	F	11.94 ± 0.535^{aA}	10.51 ± 0.337^{aA}	10.83 ± 0.326^{aA}	10.96 ± 0.221^{a}
	Mean	11.63 ± 0.343^{A}	10.72 ± 0.224^{A}	10.60 ± 0.207^{B}	10.89 ± 0.143
Insoluble proteins	M	4.86 ± 0.184^{aA}	4.67 ± 0.101^{aA}	4.52 ± 0.099^{aA}	4.66 ± 0.069^{a}
[mg g^{-1}(d.m.)]	F	4.97 ± 0.166^{aA}	4.78 ± 0.121^{aA}	4.87 ± 0.138^{aA}	4.86 ± 0.080^{a}
	Mean	4.91 ± 0.124^{A}	4.73 ± 0.079^{A}	4.69 ± 0.085^{A}	4.76 ± 0.053
Free amino acids	M	1.63 ± 0.103^{aA}	1.75 ± 0.063^{aA}	2.03 ± 0.116^{aA}	1.82 ± 0.056^{a}
[mg g^{-1}(d.m.)]	F	1.64 ± 0.130^{aA}	1.73 ± 0.084^{aA}	1.74 ± 0.080^{aA}	1.71 ± 0.054^{a}
	Mean	1.63 ± 0.083^{B}	1.74 ± 0.053^{B}	1.88 ± 0.071^{A}	1.77 ± 0.039
Soluble	M	57.84 ± 2.474^{aB}	71.18 ± 1.659^{aA}	77.85 ± 2.325^{aA}	70.51 ± 1.297^{a}
carbohydrates	F	58.13 ± 3.314^{aB}	76.36 ± 2.488^{aA}	80.47 ± 3.070^{aA}	73.62 ± 1.758^{a}
[mg g^{-1}(d.m.)]	Mean	57.98 ± 2.060^{B}	73.77 ± 1.502^{A}	79.16 ± 1.923^{A}	72.06 ± 1.090
Insoluble	M	88.30 ± 10.008^{aA}	75.41 ± 9.324^{aA}	86.41 ± 8.844^{aA}	82.45 ± 5.459^{a}
carbohydrates	F	66.90 ± 8.476^{aA}	54.91 ± 9.467^{aA}	68.10 ± 8.632^{aA}	62.54 ± 5.313^{b}
[mg g^{-1}(d.m.)]	Mean	77.60 ± 6.597^{A}	65.16 ± 6.663^{A}	77.26 ± 6.196^{A}	72.50 ± 3.827

Table 4 Suppl. The number of biochemical parameters for which male and female yews differ statistically in terms of mean values for a given trait in individual months of needle life. Number of all tested parameters (max number) = 6. Values in bold > 3.

Year	Month	Month May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
0	1-12	**5**	**5**	2	1	**4**	2	1	3	3	0	**4**	3
1	13-24	2	2	2	2	1	1	1	2	1	2	**6**	3
2	25-36	2	2	1	**4**	2	2	3	3	3	3	**4**	3