

US EPA ARCHIVE DOCUMENT

**Table III: Tomki Creek Shade effects on Stream Temperature**

**Modeling Results  
Total Stream Miles at various stream temperatures**

Temperature Evaluation	Topo Shading Only	18 Inch dbh	24 Inch dbh	Baseline Current	Natural 48 dbh conifer + riparian
Good (< 15° C)	0.0	0.0	0.0	0.0	0.0
Good (15.1° -17° C)	0.3	0.6	0.9	0.9	0.9
Adequate (17.1°-19° C)	1.6	3.1	3.1	3.7	3.7
Marginal (19.1°- 20° C)	2.5	3.1	2.8	2.8	2.8
Stressful (20.1°- 21° C)	0.6	2.2	2.5	2.8	3.1
Stressful (21.1°- 22° C)	1.6	2.5	2.5	2.5	2.8
Stressful (22.1°- 23° C)	2.5	3.4	3.1	2.2	1.9
Stressful (23.1°- 24° C)	0.9	3.1	3.1	4.0	5.0
Lethal (max7daat > 24° C)	39.5	31.4	31.4	30.4	29.2
TOTAL	49.5	49.4	49.4	49.3	49.4

**Table IV: Tomki Creek Shade Modeling Results**

**Temperature changes  
Stream Miles cooler than various stream temperatures**

Temperature Evaluation	Topo Shading Only	18 Inch dbh	24 Inch dbh	Baseline Current	Natural 48 dbh + riparian
Good <17° C	0.3	0.6	0.9	0.9	0.9
Adequate <19° C	1.9	3.7	4.0	4.6	4.6
Marginal < 20° C	4.4	6.8	6.8	7.4	7.4
Stressful <21° C	5.0	9.0	9.3	10.2	10.5
Stressful < 22° C	6.6	11.5	11.8	12.7	13.3
Stressful < 23° C	9.1	14.9	14.9	14.9	15.2
Stressful < 24° C	10.0	18.0	18.0	18.9	20.2
Lethal and < 24° C	49.5	49.4	49.4	49.3	49.4

*Note: totals between categories may not be equal due to rounding*