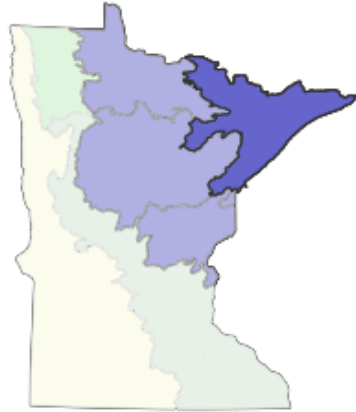


Northern Superior Uplands

Section Forest Resources Management Plan



Preliminary Issues and Assessment Chapter 5: Forest Products Harvest



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Prepared February 2015

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[Minnesota Forest Resource Council. 2014. Northeast Landscape Conditions & Trends Report. Landscape Program Document #LT0114. Minnesota Forest Resource Council, St. Paul, Minnesota. Available online at the \[Minnesota Forest Resource Council\]\(#\) web site \[www.frc.state.mn.us\]\(http://www.frc.state.mn.us\)](#)

Notes relating to this document:

This *Preliminary Issues and Assessment* document and color maps may be viewed as PDF files on the *Northern Northern Superior Uplands Section Forest Resources Management Plan* website at:

[Northern Superior Uplands SFRMP](#)

Information about the Section Resource Management Plan (SFRMP) process can be found at:

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Forest Products Harvest from DNR-Administered Land in the Northern Superior Uplands Section

The sales of forest products from land administered by the Minnesota Department of Natural Resources (DNR) are collected by the Timber Sales Unit of the Forestry Division. These data provide a historical view of trends in sales and value of forest products over time.

Table 5.1 Timber acres sold by subsection for fiscal years 2008-2013

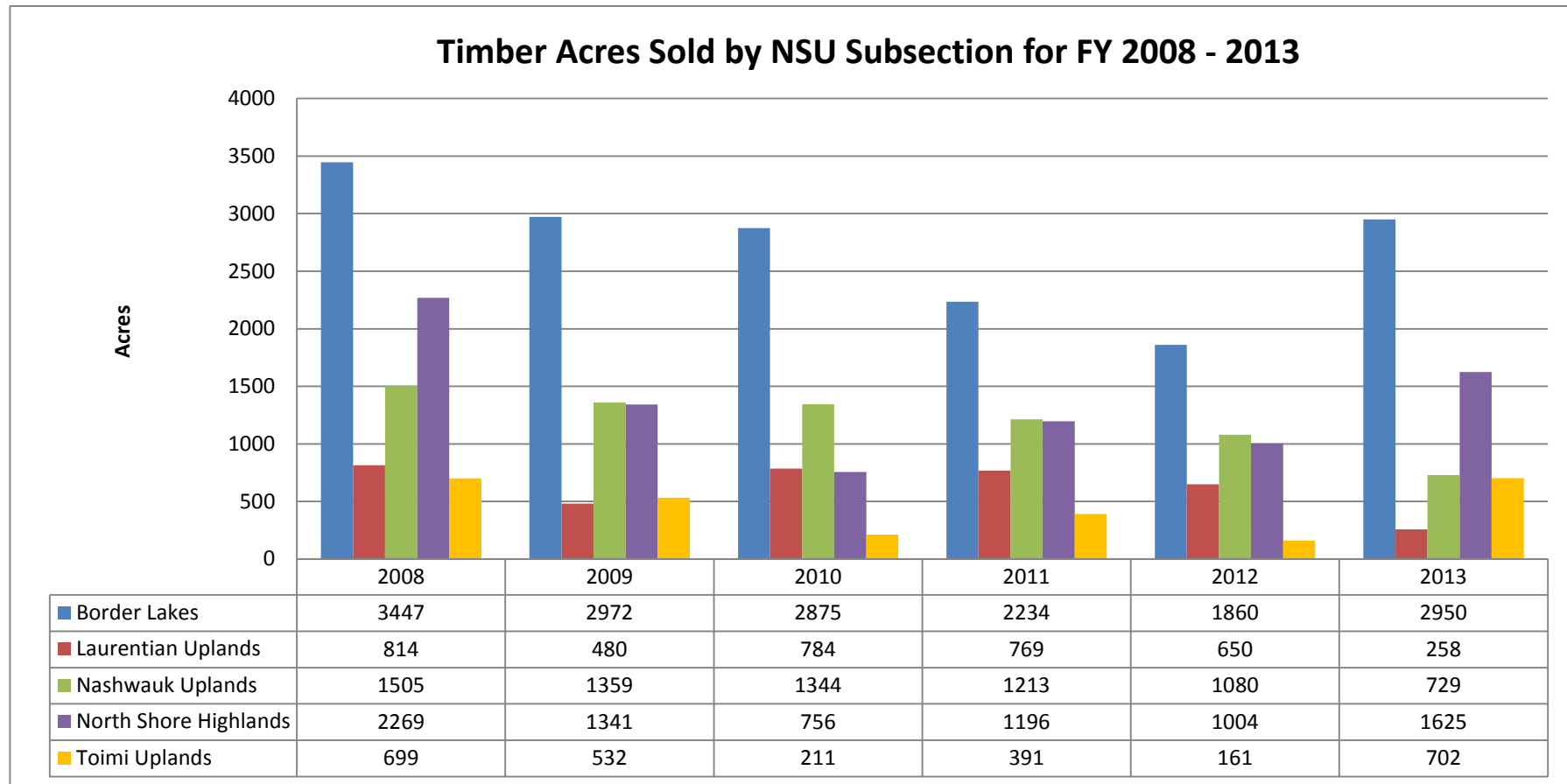
The first column lists the years 2008 to 2013; remaining columns display the acreage of timberland sold for each subsection. The average acreage for the NSU Section for these years is 5,919 acres.

| Timber Acres Sold by NSU Subsection for FY 2008 - 2013 | | | | | | |
|--|--------------|--------------------|------------------|-----------------------|---------------|--------------|
| FY | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU Total |
| 2008 | 3,447 | 814 | 1,505 | 2,269 | 699 | 8,035 |
| 2009 | 2,972 | 480 | 1,359 | 1,341 | 532 | 6,152 |
| 2010 | 2,875 | 784 | 1,344 | 756 | 211 | 5,759 |
| 2011 | 2,234 | 769 | 1,213 | 1,196 | 391 | 5,412 |
| 2012 | 1,860 | 650 | 1,080 | 1,004 | 161 | 4,594 |
| 2013 | 2,950 | 258 | 729 | 1,625 | 702 | 5,562 |
| <i>Avg.</i> | <i>2,723</i> | <i>626</i> | <i>1,205</i> | <i>1,365</i> | <i>449</i> | <i>5,919</i> |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.1. Annual harvest of timber from DNR lands in acres

One reason for differences in yearly harvest level is the variation in timber markets and the resulting amount sold each fiscal year (i.e. July 1–June 30). An average of 5,919 acres per year was sold from DNR lands in the NSU Subsections during FY 2008-2013.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.2. Volume in cord equivalents of timber sold from DNR lands during fiscal years 2008 to 2013

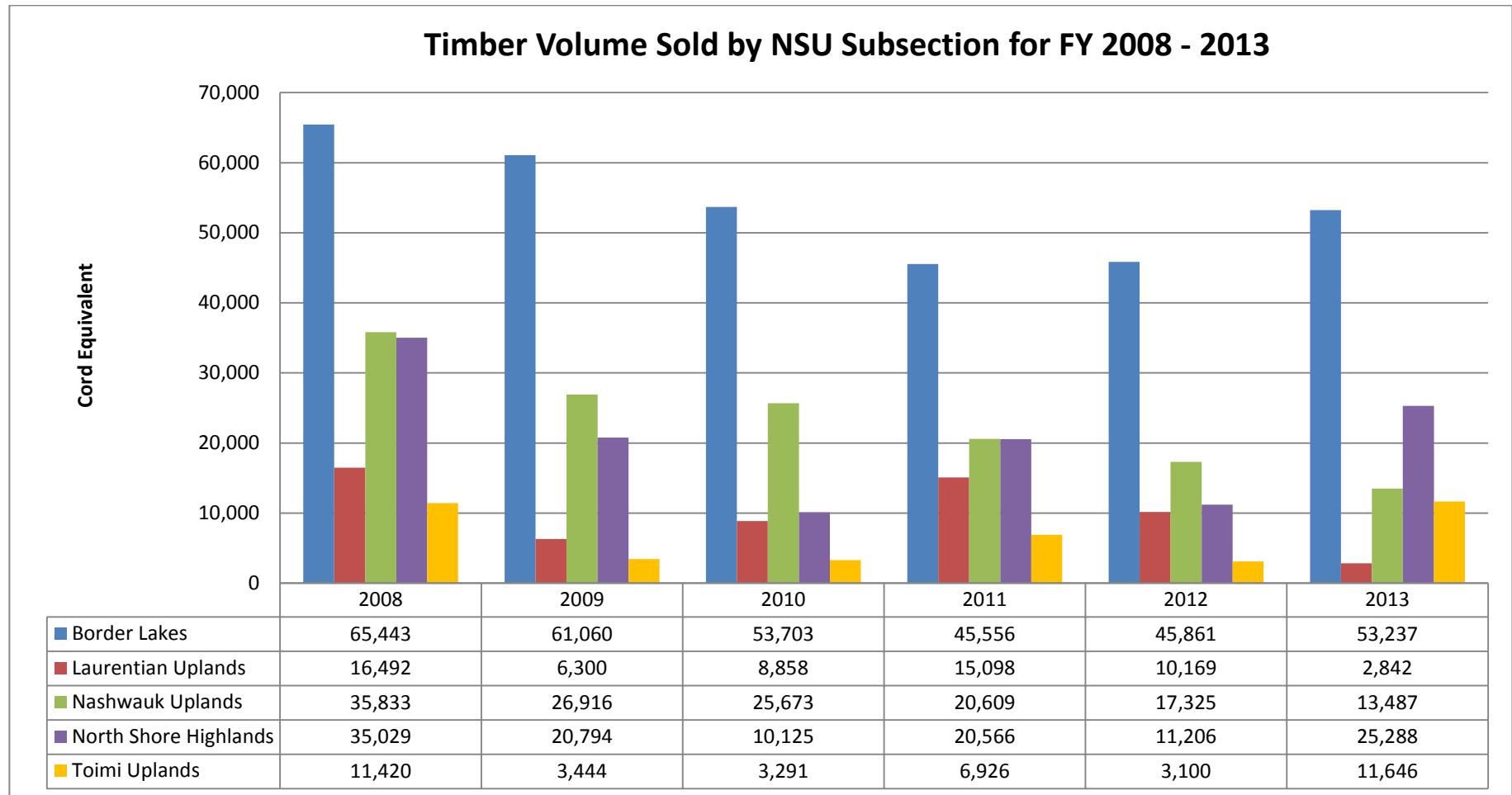
Column headings are the individual subsections making up the planning area and a total for the NSU Section; row headings are fiscal years. There is a totals row with the averages over the six fiscal years by subsection. An average of 114,550 cords per year was sold from DNR lands during FY 2008-2013 in the NSU Subsections combined.

| | Timber Volume (cd eq) Sold by NSU Subsection for FY 2008 - 2013 | | | | | |
|-------------|--|---------------------------|-------------------------|------------------------------|----------------------|------------------|
| FY | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU Total |
| 2008 | 65,443 | 16,492 | 35,833 | 35,029 | 11,420 | 164,217 |
| 2009 | 61,060 | 6,300 | 26,916 | 20,794 | 3,444 | 118,514 |
| 2010 | 53,703 | 8,858 | 25,673 | 10,125 | 3,291 | 101,651 |
| 2011 | 45,556 | 15,098 | 20,609 | 20,566 | 6,926 | 108,755 |
| 2012 | 45,861 | 10,169 | 17,325 | 11,206 | 3,100 | 87,661 |
| 2013 | 53,237 | 2,842 | 13,487 | 25,288 | 11,646 | 106,499 |
| <i>Avg.</i> | <i>54,143</i> | <i>9,960</i> | <i>23,307</i> | <i>20,502</i> | <i>6,638</i> | <i>114,550</i> |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.2 Volume in cord equivalents of timber sold from DNR lands during fiscal years 2008 to 2013

This figure is a chart showing the same data presented in Table 5.2 in graphic form. Each subsection is shown as a separate column for each year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.3. Stumpage value in dollars of timber sold from DNR lands during fiscal years 2008 to 2013

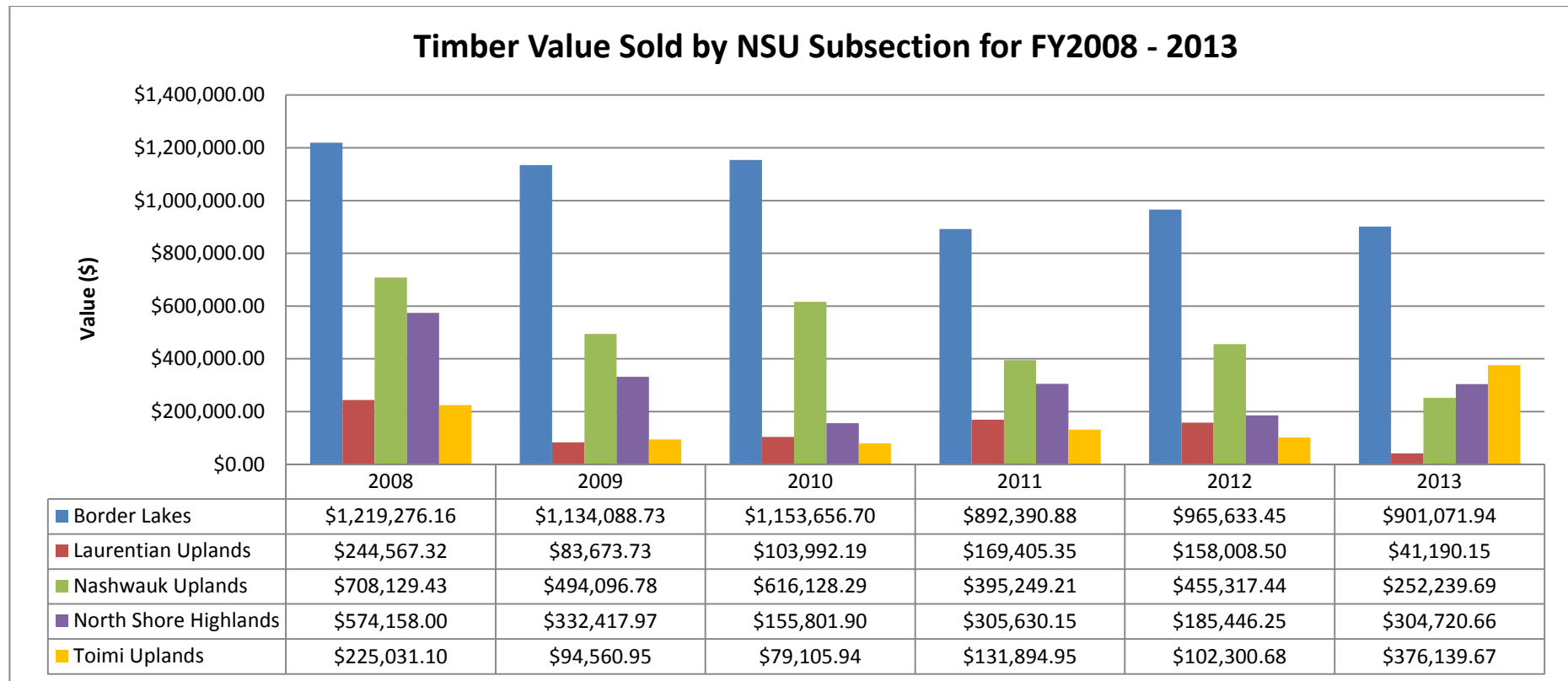
This table shows the stumpage value in dollars of timber sold from DNR lands during fiscal years 2008 to 2013. Column headings are the individual subsections making up the planning area and a total for the NSU Section; row headings are fiscal years. There is a totals row with the averages over the six fiscal years by subsection. An average of \$2,142,554.03 per year was sold from DNR lands during FY 2008-2013 in the NSU Subsections combined.

| | Timber Value (\$) Sold by NSU Subsection for FY 2008 - 2013 | | | | | |
|-------------|--|---------------------------|-------------------------|------------------------------|----------------------|-----------------------|
| FY | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU Total |
| 2008 | \$1,219,276.16 | \$244,567.32 | \$708,129.43 | \$574,158.00 | \$225,031.10 | \$2,971,162.01 |
| 2009 | \$1,134,088.73 | \$83,673.73 | \$494,096.78 | \$332,417.97 | \$94,560.95 | \$2,138,838.16 |
| 2010 | \$1,153,656.70 | \$103,992.19 | \$616,128.29 | \$155,801.90 | \$79,105.94 | \$2,108,685.02 |
| 2011 | \$892,390.88 | \$169,405.35 | \$395,249.21 | \$305,630.15 | \$131,894.95 | \$1,894,570.54 |
| 2012 | \$965,633.45 | \$158,008.50 | \$455,317.44 | \$185,446.25 | \$102,300.68 | \$1,866,706.32 |
| 2013 | \$901,071.94 | \$41,190.15 | \$252,239.69 | \$304,720.66 | \$376,139.67 | \$1,875,362.11 |
| <i>Avg.</i> | <i>\$1,044,352.98</i> | <i>\$133,472.87</i> | <i>\$486,860.14</i> | <i>\$309,695.82</i> | <i>\$168,172.22</i> | <i>\$2,142,554.03</i> |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.3. Stumpage value in dollars of timber sold from DNR lands during fiscal years 2008 to 2013

This figure is a chart showing the same data presented in Table 5.3 in graphic form. Each subsection is shown as a separate column for each year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.4. Volume in cord equivalents of timber harvested from DNR lands during fiscal years 2008 to 2013

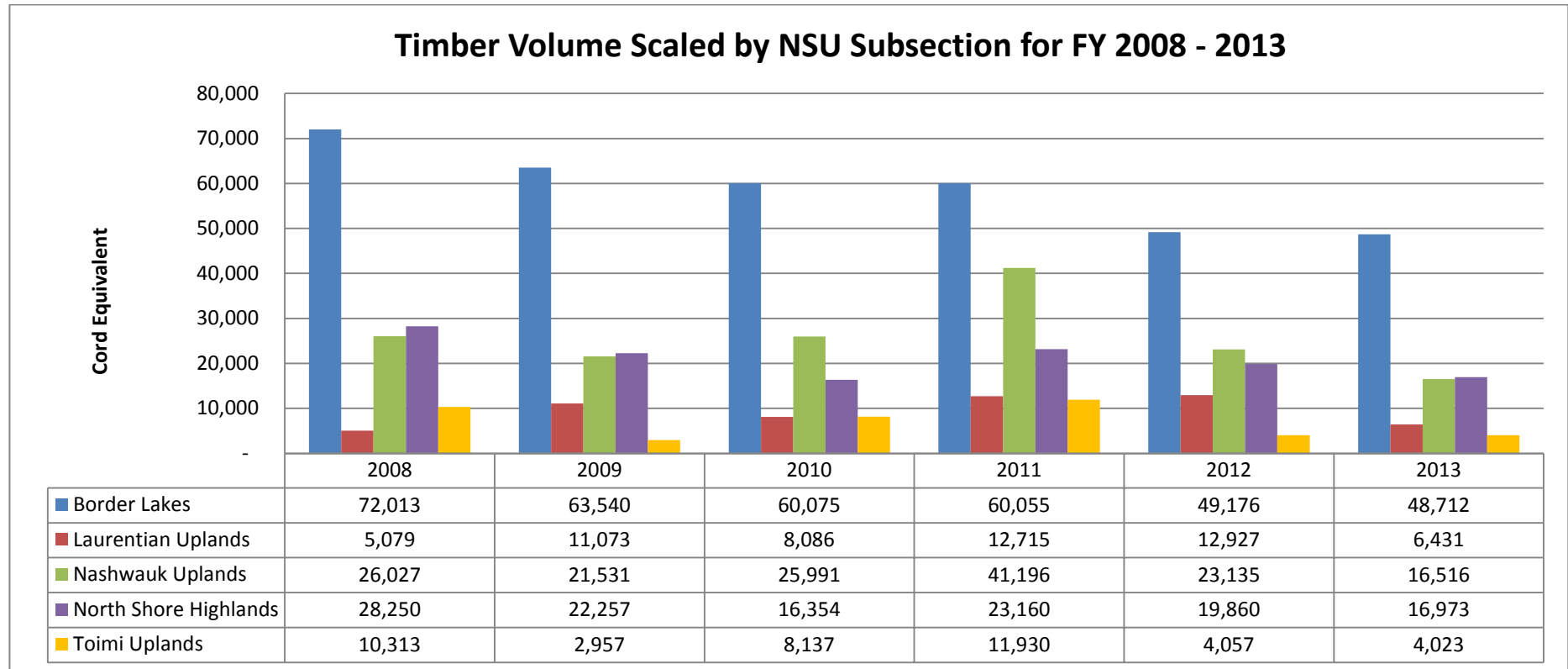
Column headings in this table are the individual subsections making up the planning area and a total for the NSU Section; row headings are fiscal years. There is a totals row with the averages over the six fiscal years by subsection. An average of 122,091 cords per year was harvested from DNR lands during FY 2008-2013 in the NSU subsections combined.

| Timber Volume (cd eq) Scaled by Subsection for FY 2008 - 2013 | | | | | | |
|---|--------------|--------------------|------------------|-----------------------|---------------|-----------|
| FY | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU Total |
| 2008 | 72,013 | 5,079 | 26,027 | 28,250 | 10,313 | 141,683 |
| 2009 | 63,540 | 11,073 | 21,531 | 22,257 | 2,957 | 121,358 |
| 2010 | 60,075 | 8,086 | 25,991 | 16,354 | 8,137 | 118,643 |
| 2011 | 60,055 | 12,715 | 41,196 | 23,160 | 11,930 | 149,055 |
| 2012 | 49,176 | 12,927 | 23,135 | 19,860 | 4,057 | 109,154 |
| 2013 | 48,712 | 6,431 | 16,516 | 16,973 | 4,023 | 92,654 |
| Avg. | 58,928 | 9,385 | 25,732 | 21,142 | 6,903 | 122,091 |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.4. Volume in cord equivalents of timber harvested from DNR lands during fiscal years 2008 to 2013

This figure is a chart showing the same data presented in Table 5.4 in graphic form. Each subsection is shown as a separate column for each year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.5. Average stumpage price paid per cord for timber from DNR lands by fiscal year

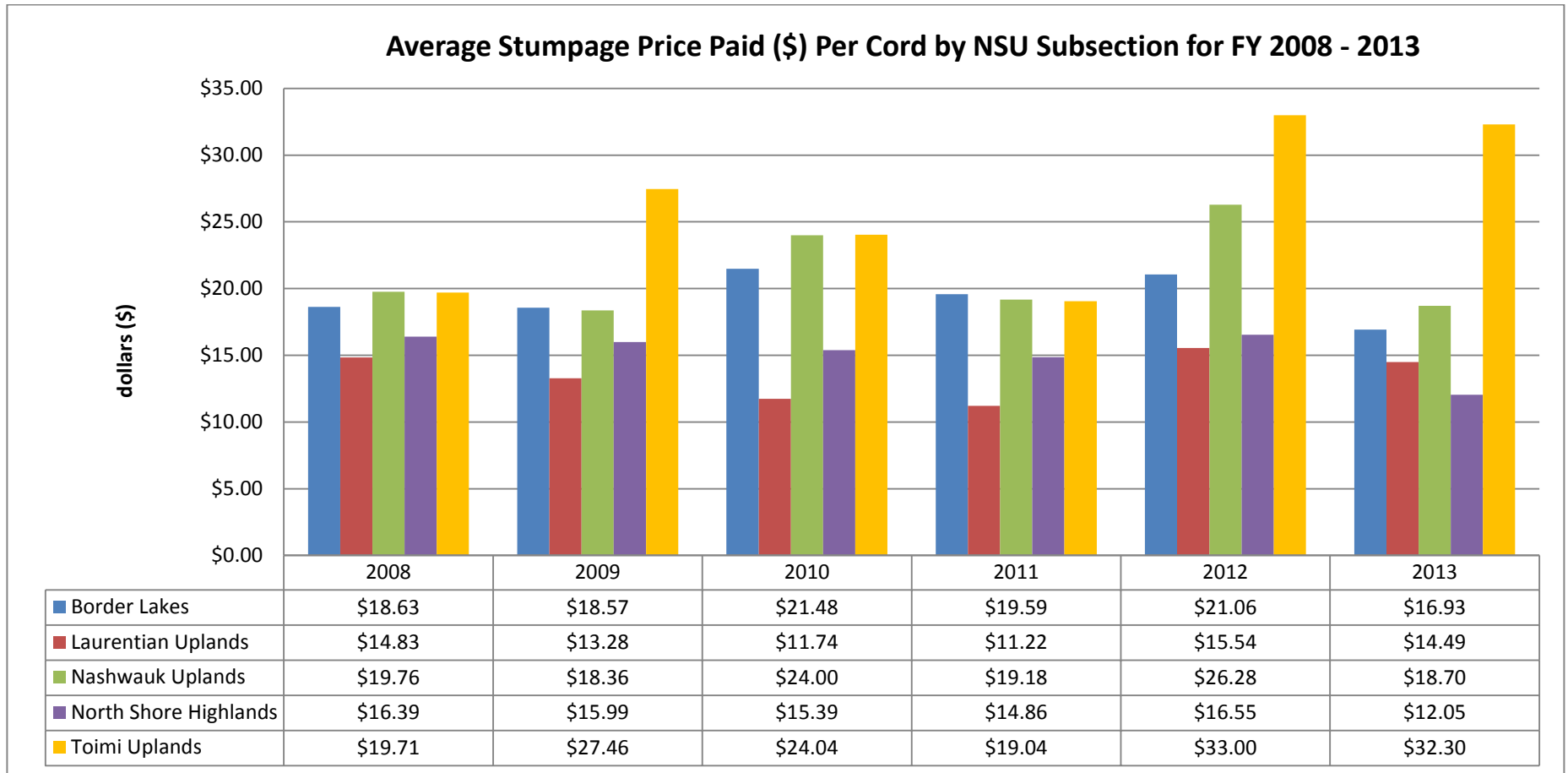
This table shows average stumpage prices; columns are fiscal year (first column); subsection name; and a total column for the NSU subsections combined. Averages for subsections and the Section as a whole are in the bottom row.

| | Average Stumpage Price Paid Per Cord by NSU Subsection for FY 2008 - 2013 | | | | | |
|-------------|--|---------------------------|-------------------------|------------------------------|----------------------|------------------|
| FY | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU Total |
| 2008 | \$18.63 | \$14.83 | \$19.76 | \$16.39 | \$19.71 | \$18.09 |
| 2009 | \$18.57 | \$13.28 | \$18.36 | \$15.99 | \$27.46 | \$18.05 |
| 2010 | \$21.48 | \$11.74 | \$24.00 | \$15.39 | \$24.04 | \$20.74 |
| 2011 | \$19.59 | \$11.22 | \$19.18 | \$14.86 | \$19.04 | \$17.42 |
| 2012 | \$21.06 | \$15.54 | \$26.28 | \$16.55 | \$33.00 | \$21.29 |
| 2013 | \$16.93 | \$14.49 | \$18.70 | \$12.05 | \$32.30 | \$17.61 |
| <i>Avg.</i> | <i>\$19.29</i> | <i>\$13.40</i> | <i>\$20.89</i> | <i>\$15.11</i> | <i>\$25.34</i> | <i>\$18.70</i> |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.5. Average stumpage price paid per cord for timber from DNR lands by fiscal year

This figure is a chart showing the same data presented in Table 5.5 in graphic form. Each subsection is shown as a separate column for each year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.6. Average volume of timber sold by species group

This table shows the average fiscal year volume in cords of timber sold by species group from DNR lands in the Northern Superior Uplands. Forest cover types normally consist of a variety of species, while the name of the cover type is based on the predominant species. The DNR bases harvest levels on cover type *acres*, but timber is sold by tree *species volume and value*. The following table shows volumes sold by species. During the period of FY 2008 to FY 2013, an average of 110,463 cords was sold per year from DNR forestlands in the Northern Superior Uplands.

| Average Fiscal Year Volume (cd) of Timber Sold by Species Group During FY 2008 - 2013 in the Northern Superior Uplands | | | | | | |
|--|--------------|--------------------|------------------|-----------------------|---------------|---------|
| Species Group | Border Lakes | Laurentian Uplands | Nashwauk Uplands | North Shore Highlands | Toimi Uplands | NSU |
| Lowland Hardwoods | 176 | 0 | 119 | 55 | 30 | 381 |
| Aspen Species | 30812 | 4546 | 8127 | 10298 | 2831 | 56613 |
| Spruce-Fir Species | 8300 | 2735 | 3432 | 4151 | 1641 | 20259 |
| Pine Species | 5628 | 611 | 4664 | 2172 | 842 | 13918 |
| Northern Hardwoods | 3116 | 414 | 3542 | 1638 | 138 | 8848 |
| Lowland Conifers | 5329 | 1649 | 916 | 2053 | 496 | 10444 |
| Total | 53,361 | 9,954 | 20,800 | 20,368 | 5,979 | 110,463 |

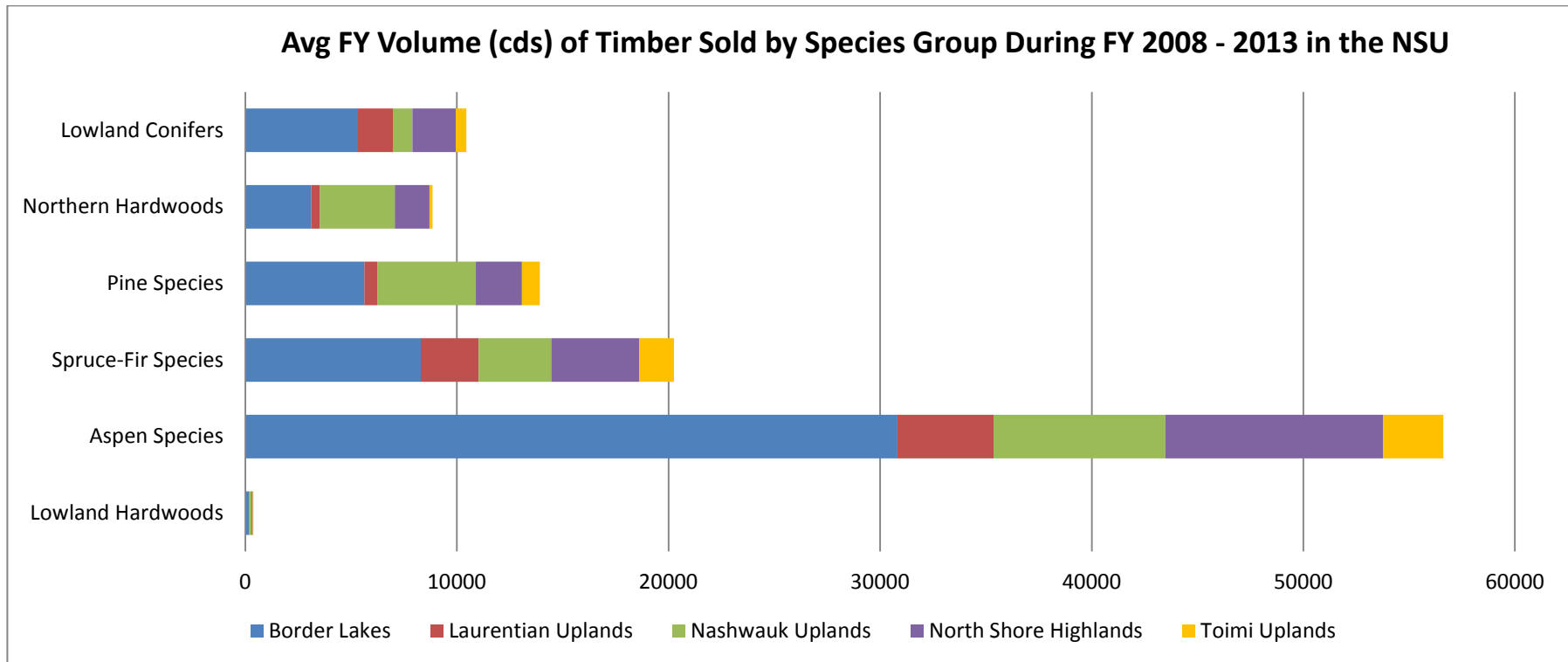
Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Species Groups:

- Lowland Hardwoods includes Ash and Lowland Hardwoods
- Aspen Species includes Trembling Aspen, Largetooth Aspen, Balm of Gilead, Aspen Species, Paper Birch and Yellow Birch
- Spruce-Fir includes White Spruce, Balsam Fir, Mixed Spruce and Spruce-Balsam
- Pine Species includes White Pine, Norway Pine, Jack Pine and Pine Species
- Northern Hardwoods includes Maple Species, Red Maple, Sugar Maple, Basswood and Northern Hardwoods
- Lowland Conifers includes Black Spruce, Tamarack, White Cedar and Lowland Conifers
- *Only those species and products sold under cords or MBF are included.*

Figure 5.6. Average volume of timber sold by species group

This figure is a chart showing the same data presented in Table 5.6 in graphic form. Each subsection is shown as a separate column for each year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Table 5.7. Decorative Trees (Pieces) Sold by Subsection for FY 2009-2013

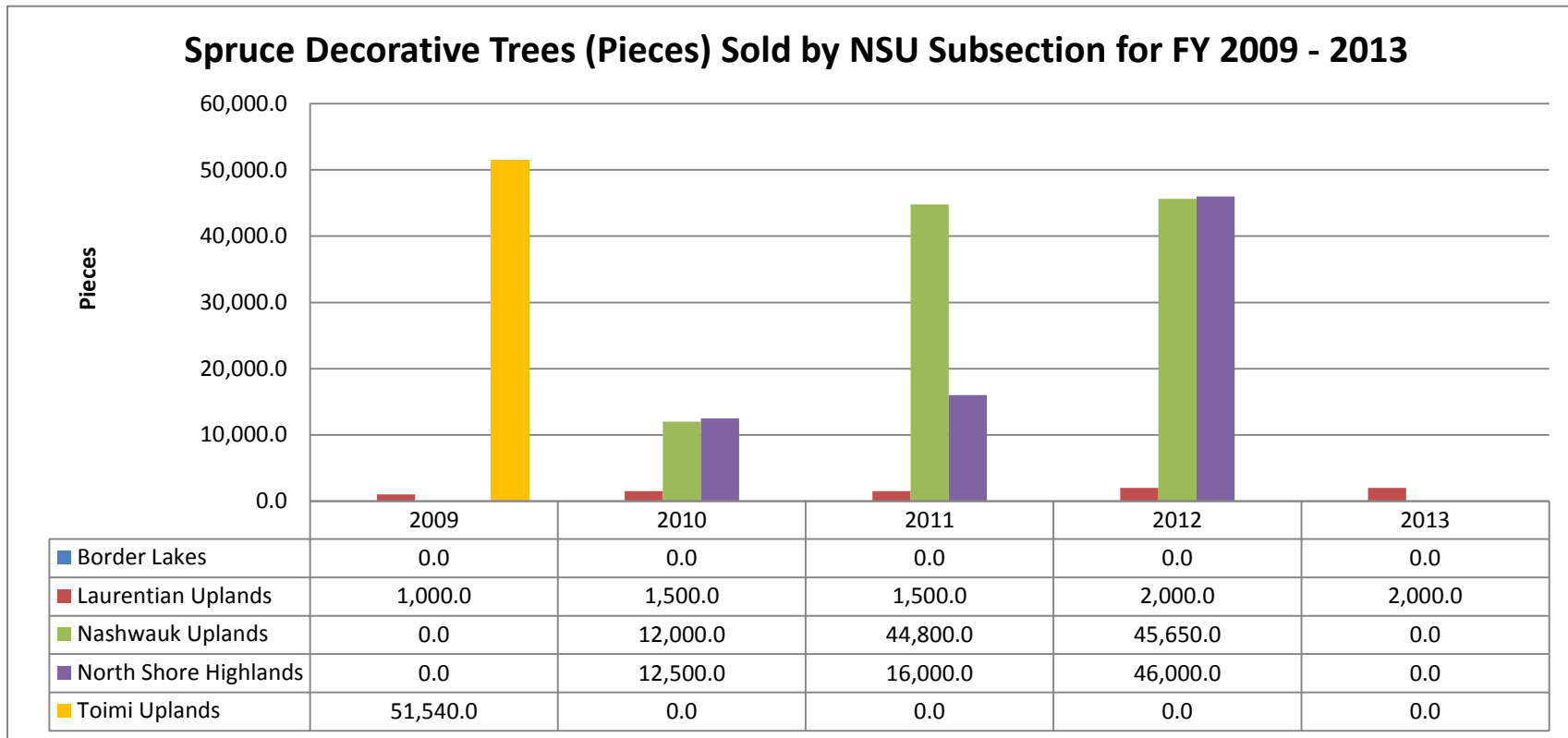
The first column in this table lists the years 2009 to 2013; for each subsection a pair of columns displays the number of pieces harvested and the value in dollars for each year. Averages are given for number of pieces and value in dollars for each subsection. The NSU average for the period is 47,298 pieces, with a value of \$10,461.58.

| Black Spruce Decorative Trees (Pieces) and Value (\$) Sold by NSU Subsection for FY 2009 - 2013 | | | | | | | | | | | | |
|--|--------------|---------------|--------------------|-----------------|------------------|-------------------|-----------------------|-------------------|----------------|-------------------|-----------------|--------------------|
| FY | Border Lakes | | Laurentian Uplands | | Nashwauk Uplands | | North Shore Highlands | | Toimi Uplands | | NSU Total | |
| | Pieces | Value | Pieces | Value | Pieces | Value | Pieces | Value | Pieces | Value | Pieces | Value |
| 2009 | 0.0 | \$0.00 | 1,000.0 | \$350.00 | 0.0 | \$0.00 | 0.0 | \$0.00 | 51,540.0 | \$10,823.40 | 52,540.0 | \$11,173.40 |
| 2010 | 0.0 | \$0.00 | 1,500.0 | \$405.00 | 12,000.0 | \$2,160.00 | 12,500.0 | \$3,750.00 | 0.0 | \$0.00 | 26,000.0 | \$6,315.00 |
| 2011 | 0.0 | \$0.00 | 1,500.0 | \$375.00 | 44,800.0 | \$8,064.00 | 16,000.0 | \$5,120.00 | 0.0 | \$0.00 | 62,300.0 | \$13,559.00 |
| 2012 | 0.0 | \$0.00 | 2,000.0 | \$540.00 | 45,650.0 | \$7,760.50 | 46,000.0 | \$12,420.00 | 0.0 | \$0.00 | 93,650.0 | \$20,720.50 |
| 2013 | 0.0 | \$0.00 | 2,000.0 | \$540.00 | 0.0 | \$0.00 | 0.0 | \$0.00 | 0.0 | \$0.00 | 2,000.0 | \$540.00 |
| <i>Avg.</i> | <i>0.0</i> | <i>\$0.00</i> | <i>1600.0</i> | <i>\$442.00</i> | <i>20490.0</i> | <i>\$3,596.90</i> | <i>14900.0</i> | <i>\$4,258.00</i> | <i>10308.0</i> | <i>\$2,164.68</i> | <i>47,298.0</i> | <i>\$10,461.58</i> |

Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.7. Decorative Trees Sold by NSU Subsection for Fiscal Years 2009-2013

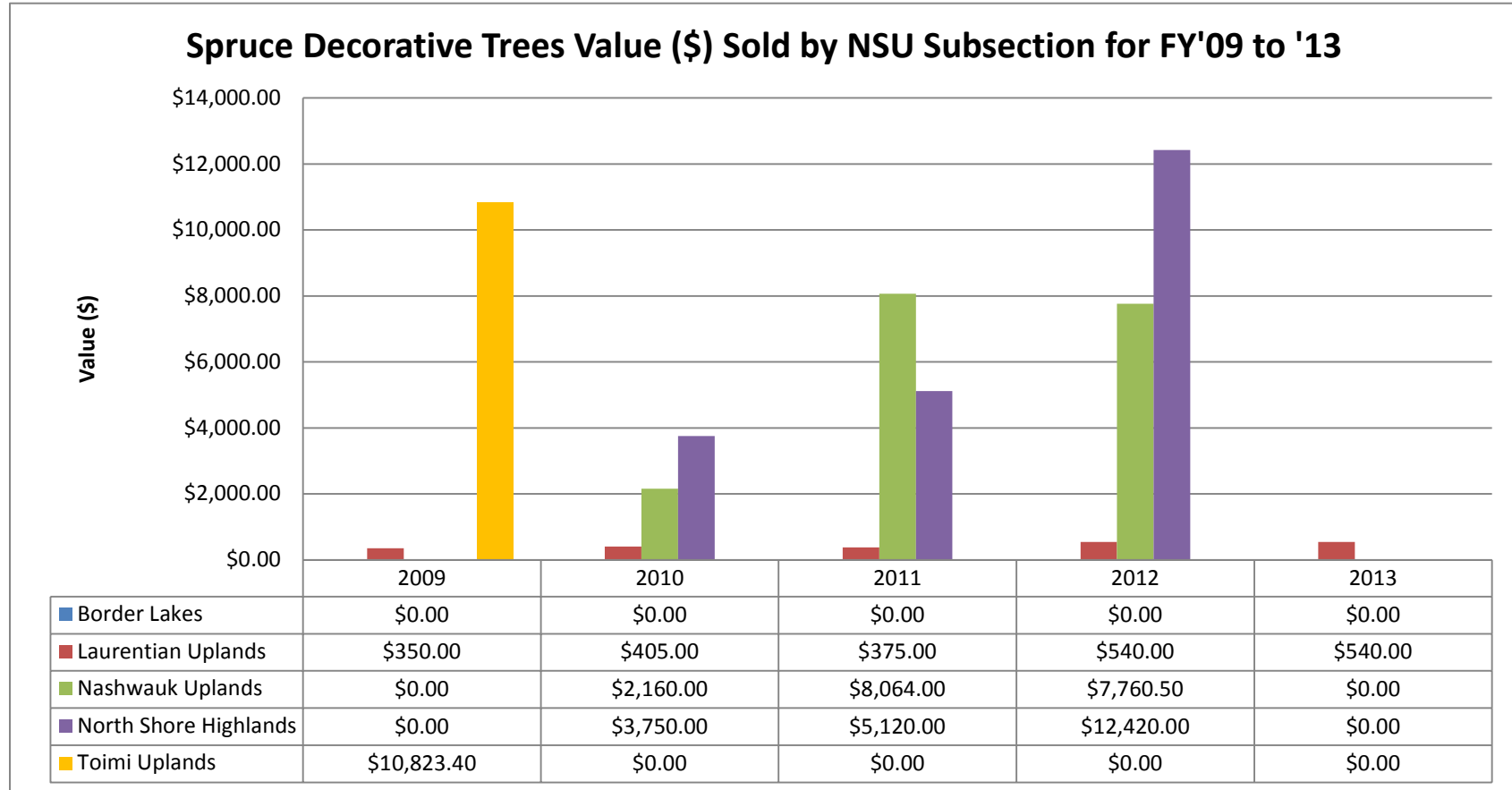
This figure is a chart displaying the same data presented in table 5.7. The number of “pieces” is shown for each subsection. Each subsection is displayed as a column for each fiscal year. The data are also displayed for each subsection below each graphical representation for each fiscal year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul

Figure 5.8. Value of Decorative Trees Sold in NSU Subsections in Fiscal Years 2009-2013

This figure is a chart displaying the same data presented in table 5.7. The value of product sold in dollars is shown for each subsection. Each subsection is displayed as a column for each fiscal year. The data are also displayed for each subsection below each graphical representation for each fiscal year.



Source: Timber Sales Historical Records database, Minnesota DNR, St. Paul