

# Target Tailored Forest Damage Inventory (TFDI) - Damage by bark beetle in the county of Västernorrland and eastern Jämtland 2014

Dataset identifier: <https://doi.org/10.5878/036v-fm23>

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**Report:** Wulff, S. (2014). Nationell Riktad Skadeinventering (NRS) 2014. Arbetsrapport 432. Institutionen för skoglig resurshushållning, Sveriges lantbruksuniversitet. <https://res.slu.se/id/publ/63696>

**Instruction fieldwork:** Separate file (Only in Swedish)

**Data description:**

## Collected, assessed variables and calculated variables

### PLOTDATA

Plotno

Date – Date of inventory (YYYYMMDD)

NFI year – Year when the NFI last time inventoried the sample plot before this inventory

Tract – Tract number

Sample plot – Sample plot number

Sub sample plot – Sub sample plot number (0=one plot)

County – 7 = Ångermanland; 8 = Medelpad; 5 = Jämtland

Inventory – Is the plot measured? 1=Yes; 2=No - sample plot not found; 3= No - Not forestland, a real change in land use class; 4=No - Whole plot clear cut; 5=No - Other reason (give explanation); 6=No – No Norway spruces left on the sample plot; 7=Yes – But only a few remaining trees; 8=Yes – But with a new stand edge (season 0 – 2) stand edge within 25 m

Plot area percent – Current proportion of sample plot

Plot area m<sup>2</sup> – Area of sample plot

Proportion of Norway spruce – Proportion of Norway spruce at plot level in tenths (NULL=Missing data)

Maturity class - Maturity class (see NFI instructions for description) (NULL=Missing data)

Edge - Distance from plot center to stand edge or gap in the forest (0=in the edge; 5=1-5 m; 10=6-10 m; 15=11-15 m; 20=16-20 m; 25=21-25 m; 26=>25 m) (NULL=Missing data)

Edge time – Time when an stand edge within 25 m occurred (0=current season; 1=last year season; 2=season 2; 5=season 3-5; 10=older than 5 season; 99=no edge; NULL=Missing data)

A season is from spring budding one year to the budding the next year.

Proportion of trees damaged 10m radius – Proportion of trees damaged by bark beetle at sample plot with 10m radius (NULL=Missing data)

Proportion of trees damaged 25m radius – Proportion of trees damaged by bark beetle at sample plot with 25m radius (NULL=Missing data)

Wind-felled trees season 0 – Number of wind thrown trees from season 0 (NULL=Missing data)

Wind-felled trees season 1 – Number of wind thrown trees from season 1 (NULL=Missing data)

Wind-felled trees fresh – Number of wind thrown trees with fresh inner bark (NULL=Missing data)

Wind-felled trees season older – Number of wind thrown trees older than season 1 (NULL=Missing data)

GPS-East Scrambled (SWEREF99, scrambled +/- 200 - 800 m)

GPS-North Scrambled (SWEREF99, scrambled +/- 200 - 800 m)

Other info – Other information free text in Swedish

## **TREEDATA**

Plotno

Treeno

Within 10m – Within plot 10 m radius (1=yes; 0=no)

Dead – Dead tree (1=yes; 0=no)

Position – 1=standing tree; 2= Stump

Diameter – Diameter at breast height (mm)

Bark beetle – Damage by bark beetle species GBB=European spruce bark beetle (*Ips thypographus*); DOB= Four eyed spruce bark beetle (*Polygraphus poligraphus*); GBBDOB=both European spruce bark beetle (*Ips thypographus*) and Four eyed spruce bark beetle (*Polygraphus poligraphus*); NULL=Missing data

Season – Damage season. A season is from spring budding one year to the budding the next year. 0=present season; 1=last season; 2=two seasons ago; 3=two seasons ago or older; 4=three seasons ago or older

Edge - Distance from tree to stand edge or gap in the forest (0=in the edge; 5=1-5 m; 10=6-10 m; 15=11-15 m; 20=16-20 m; 25=21-25 m; 26=>25 m)

Height – Estimated height (m) by height function RuneOlla (Ollas, R. 1980. Nya utbytesfunktioner för träd och bestånd. Forskningsstiftelsen Skogsarbeten, Ekonomi nr 5. In Swedish.) (NULL=Missing data)

Volume – Volume in m<sup>3</sup> (Cubic meters standing volume) (NULL=Missing data)

Other info – Other information free text in Swedish

## WIND-FELLED TREE DATA

Plotno

Treeno

Within 10m – Within plot 10 m radius (1=yes; 0=no)

Diameter – Diameter at breast height (mm)

Full length – Full length (1=yes; 0=no)

Length – If full length =1 than: Estimated height (dm) by height function RuneOlla (Ollas, R. 1980. Nya utbytesfunktioner för träd och bestånd. Forskningsstiftelsen Skogsarbeten, Ekonomi nr 5. In Swedish.); If full length = 0 than measured length (dm)

Top diameter – NULL if full length =1; If full length = 0 than measured diameter (mm)

Infestation – The wind-felled tree infested with bark beetle (0 = no; 1=yes (only season 0))

Bark beetle – Damage by bark beetle species GBB=European spruce bark beetle (*Ips thypographus*); DOB= Four eyed spruce bark beetle (*Polygraphus poligraphus*); ANN=Other bark beetle species; GBBDOB=both European spruce bark beetle (*Ips thypographus*) and Four eyed spruce bark beetle (*Polygraphus poligraphus*); NULL=No attack of bark beetles

Deduction season – Wind-felled damage season. A season is from spring budding one year to the budding the next year. 0=present season; 1=last season; 2=two seasons ago; 3=two seasons ago or older; 4=three seasons ago or older

Volume – Volume in m<sup>3</sup> (Cubic meters standing volume)

Other info – Other information free text in Swedish