

### Appendix 3. Comment Codes

Codes are to used to record common conditions (such as presence of cones or second flush), tree damage, and also indicate if measurements were verified or taken at different height than standard. Comments are important, please record as many as are pertinent.

Table 1. Comment codes.

CODE	DESCRIPTION
ANI	Animal damage (browsing, stem rub, etc)
BDM	Basal diameter measured higher than 10 cm. Provide height (0.1cm) in COMMENT field
BDV	Basal diameter measurement verified
CHL	Chlorotic, needles yellow-green
CN1	Tree has cones: very few, can not be seen easily
CN2	Tree has cones: several cones can be seen from a distance
CN3	Tree has cones: lots of cones, more cones than proportionate to size of tree
CTL	Change in terminal leader, a lateral branch or shoot from a side bud is now taller than the old terminal
CST	Change in stem measured (use this code if previously measured stem is dead and new stem is being measured)
CUT	Tree has been cut down
CVG	Tree surrounded by taller competing vegetation; code even if veg is dead.
DBV	DBH measurement verified
DDD	Tree dead
DYN	Expected to be dead within a year

DSN	Diseased needles (discolored spots on foliage)
DSS	Disease on branches or stem (presence of pitch, discoloration or fungal fruiting bodies)
FK1	Main stem forked once above 1.3 m
FK2	Main stem forked 2 or more times above 1.3 m
FRS	Insect frass visible on stem, branches or at base of tree
HTV	Height measurement verified
INS	Insect damage (other than frass from stem borers coded as FRS)
LD1	Lateral branch dieback, 1 or 2 branches
LD2	Lateral branch die-back, 3 or more branches
LN1	Tree lean < 10%
LN2	Tree lean >10%
LN3	Main stem on ground but alive (still rooted)
MLT	Multiple tops (includes double tops) in last 3 years
MST	Multiple stems at DBH height (if forked above 1.3 m, see FK codes)
ND1	New growth damaged on 1 or 2 branches - yellow, reddish, or brown foliage
ND2	New growth damaged on 3 or more branches - yellow, reddish, or brown foliage
RMC1	Ramicorn branch present on 2021 leader
RMC2	Ramicorn branch present on leader prior to 2021
SCR	Stem canker (swollen or sunken areas)
SD2	Slash damage > 1/4 stem circumference
SFL	Second flush, tree set bud and had a second flush in 2021
SPF	Sparse foliage, > 25 % of needles lost

STK	Tree staked
TAG	Incorrect tag number (put correct tag number in TAG field)
TBD	Terminal buds on branches dead
TBN	Terminal bud on branches not set; top needles twisted and tender new growth evident
TCL	top clipped or broken
TD1	Top die-back < 10 cm
TD2	Top die-back > 10 cm and less than 1 m
TD3	Top die-back > 1 m
TN1	Needle loss, this year's needles
TN2	Needle loss, previous year's needles

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