Form ID Number	
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## \*REQUIRED FIELD 1 Tree Genus\*\_\_\_\_\_ Species\*\_ 1 General Tree Info \_\_\_\_\_ Country\*\_\_\_\_ Cultivar 2 Failure Type State/Province\* \_\_\_\_\_ County\_\_\_\_ 3 Failure Specifics DBH\* in/cm Height ft/m Age years 4 Structural Defects 5 Decay or Injury Tree/Site Ownership: O Private O Utility O Other or unknown ○ Fed./Nat.: (○ NFS ○ BIA ○ BLM ○ DOD ○ NPS) 6 Maintenance History 7 Tree Failure Details ○ State/Province ○ County ○ Municipal 8 Weather Conditions Address/Site name 9 Comments & Save GPS: Latitude\_\_\_\_\_. Longitude\_\_\_\_\_. (NAD83) **2 FAILURE TYPE\*** (select one) **O TRUNK FAILURE O BRANCH FAILURE** O ROOT FAILURE 3 Trunk Failure Specifics 3 Branch Failure Specifics 3 Root Failure Specifics\* (select one) O Roots broken Height of failure above grade\* Dia. at break (inside bark)\* in/cm ft/m Dia. of largest broken root in/cm Total length failed branch\_\_\_\_\_ ft/m Dia. at break (inside bark)\* in/cm Distance from break to trunk ft/m 4 Defects Associated with Failure Break at attachment: O Yes O No Condition of broken roots: If No, distance from the attachment to ☐ Dead, no decay □ Decayed ☐ None ☐ Live, no decay Unknown break: ft/m ☐ Unknown O Roots cut/severed(not decayed or broken) 4 Defects Associated with Failure Dia.of largest broken root at cut\_\_\_\_in/cm ☐ Failed portion dead Distance from trunk to cut ☐ None ☐ Unknown ☐ Decay ☐ Canker Species: % of roots cut ☐ Failed portion dead ☐ Decay ☐ Multiple trunks/codominant stems O Root plate lifted out of ground ☐ Dense Crown Root plate radius\_\_\_\_ft/m ☐ Dense Crown ☐ Flush cuts Root plate depth in/cm ☐ Heavy lateral limbs/Heavy ends ☐ Topped ☐ One-Sided O Root restricted due to: ☐ Included bark ☐ Crook ☐ Low live crown ratio ☐ Included Bark ☐ Root barrier ☐ Container ☐ Failed portion is an epicormic branch ☐ Sidewalk/curb ☐ Wall/foundation ☐ Bow ☐ Crook ☐ Sweep/corrected lean ☐ Natural Feature ☐ Other ☐ Cracks in wood ☐ Uncorrected lean ft/m Distance from trunk to restriction ☐ Mistletoe or epiphyte ☐ Cracks in wood: % of root zone restricted ☐ Mechanical Injury ☐ Lightning Injury Root collar girdled? ☐ Yes ☐ No ○ Vertical O Horizontal % circumference girdled ☐ Insect Injury ☐ Animal Injury ☐ Lightning Injury ☐ Animal Injury Site/Soils Conditions ☐ Canker/Gall ☐ Fire Injury ☐ Insect Injury Soil composition: ○ Sand ○ Silt ○ Loam Species ☐ Mechanical Injury ☐ Girdling ○ Clay ○ Rock/gravel ○ Unknown Soil moisture at time of failure: O Unknown 5 Location of Decay 5 Location of Decay ○ Dry ○ Saturated ○ Moist ○ Flooded ☐ HEARTWOOD ☐ HEARTWOOD Restricted rooting depth due to: Avg. sound wood thickness ☐ Poor drainage ☐ Shallow or layered soil Avg. sound wood thickness\_\_\_\_ Opening (cavity) at failure? O No ☐ High water table ☐ Compacted ☐ Other Opening (cavity) at failure? O No Other Site Conditions: O Yes, opening % of branch circ. ☐ Soil eroded ☐ Compaction ☐ Grade change ☐ Well surrounds trunk ○ Yes, opening\_\_\_\_\_% of trunk circ. ☐ SAPWOOD ☐ SAPWOOD Avg. depth of rot in/cm ☐ Fill soil against trunk or planted too deep Avg. depth of rot in/cm Depth of excess soil Circumference rotted % Circumference rotted 4 Defects associated with failure Type of Decay Type of Decay □ None ☐ Unknown ☐ Unknown ☐ Brown rot ☐ Unknown ☐ Brown rot ☐ Fire scar/injury ☐ Basal wound ☐ Canker rot ☐ White rot ☐ White rot ☐ Low live crown ratio ☐ Canker rot Conks/mushrooms/other signs? ○ No ☐ Corrected lean (sweep) Conks/mushrooms/other signs? ○ No ☐ Uncorrected lean ☐ Animal Injury O Yes Name: O Yes Name: ☐ Cracks in trunk prior to failure Distance from conk to failure: ☐ Surface roots or root collar wounded Distance from conk to failure: ft/m 6 Hardware 5 Location of Decay 6 Hardware % of roots decayed ☐ None ☐ None Conks/mushrooms/other signs? ☐ Girdling hardware ☐ Girdling hardware ☐ No ☐ Yes Name: Avg. sound wood thickness in/cm ☐ Other device ☐ Other device Type: ☐ Unknown ☐ Brown rot ☐ White rot ☐ Cable ☐ Cable ○ Intact ○ Failed ○ Intact ○ Failed 6 Surface Treatment ☐ Unknown ☐ Guying ○ Intact ○ Failed ☐ Guying ○ Intact ○ Failed ☐ Mulch ☐ Bare soil □ Turf ☐ Prop ○ Intact ○ Failed ○ Intact ○ Failed ☐ Prop ☐ Ground cover ☐ Natural forest litter ☐ Gravel/rock ☐ Pavement ☐ Other ☐ Brace/bolt ○ Intact ○ Failed ☐ Brace/bolt ○ Intact ○ Failed Irrigation: O Unknown ○ Infrequent ○ Frequent ○ Never

INTERNATIONAL TREE FAILURE DATABASE - REPORT FORM

## **7** ADDITIONAL INFORMATION Tree Condition and Pruning History

Were the defects associated with	h failure visible before	PRUNING HISTORY	
the tree failed?		☐ No pruning ☐ Cleaned ☐ Lions-tailed	
○ Yes ○ No ○ Unknown		☐ Thinning:	
At time of failure the tree was:		○ Proper ○ Excessive	
○ Dead ○ Declining	○ Alive	☐ Reduction/Directional pruning:	
Was there construction around to	his tree?	O Proper O Excessive	
○ Yes ○ No		☐ Crown raised% of height	
If Yes, whenyears ago		☐ Topped Diameter of stub at cutin/cm	
Habitat Information			
Trees recently removed in the	Setting	Aspect	
vicinity of the failed tree:	○ Forest		
○ Yes ○ No		○ Trailhead ○ E ○ SE	
	Other developed		
History of prior failures at site:	<ul> <li>Commercial site</li> </ul>		
○ Yes ○ No	O Street tree / Med		
0.100 0.110	O Road side - Rur	• • • • • • • • • • • • • • • • • • • •	
	<ul><li>Utility right-of-wa</li></ul>	-	
	○ Yard / Garden	○ 5-15 ○ 15-30	
	O Park - Urban		
	○ Parking lot		
	O Faiking lot	O Other	
	Date / Time	e of Failure	
□ Date / Season Unknown			
Date of failure (Mo/Day/Yr):			
Time of failure hour		○ Spring ○ Summer ○ Fall ○ Winter	
○ A.M. ○ P.M. ○ Unknow	wn	Year	
8 WEATHER AND OTHER FORCES AT TIME OF FAILURE			
□ Unknown	Temperatur	e (approx.)°F/°C	
Wind speed (approx.)	_mph/kph Precipitation	n: O None O Rain O Snow O Ice O Unknown	
	9 CAUSE / RESULT	T OF TREE FAILURE	
Why did this failure occur?			
•			
Result of tree failure:			
1.0001.01.100.101.01			
`			
	e ☐ Removal of this to		
Property damage estimate \$(US) Cleanup costs \$(US) If personal injury describe below.			
Additional Comments (injury, target, damage, etc.):			
Cooperator name		Date	

Please enter data at: http://ftcweb.fs.fed.us/natfdb/ ITFD Field Form Revised 12/16/2004