



Hoakalei Native Planting Principles

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Native Pathfinders Institute Inc.



Planting A Tree/Shrub

- **Select area**
- **Select “the right” tree/shrub**
- **Dig hole twice as wide and as deep as existing rootball**
- **Prepare root and shoots**
- **Put tree in ground and backfill**
- **Water**
- **Stake if needed**



Proper Planting Techniques

Why should we care?

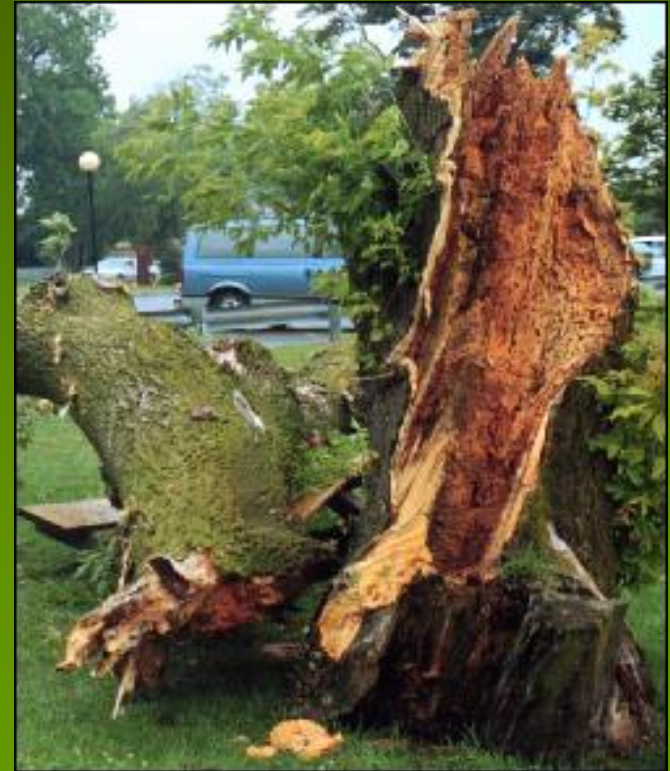






http://www.na.fs.fed.us/spfo/pubs/howtos/ht_haz/

**We want to avoid
situations like these ya!**



http://www.na.fs.fed.us/spfo/pubs/howtos/ht_haz/

Proper Planting...maybe not!



What Should Be Planted?

- **Healthy plants**
 - ❖ **Inspect & protect!**
- **Vital keys keeping plants healthy...**
 - ❖ **Roots & shoots (canopy)**
 - ❖ **H₂O**
 - ❖ **Sun, cold, heat, wind.**
 - ❖ **Right plant, Right place!!!**



Where Not To Plant Trees?

- **Power lines; state law**
- **Sewers**
- **Desired solar access**
- **Property lines**
- **Blocking views**
- **Under street lights**
- **Building eaves**



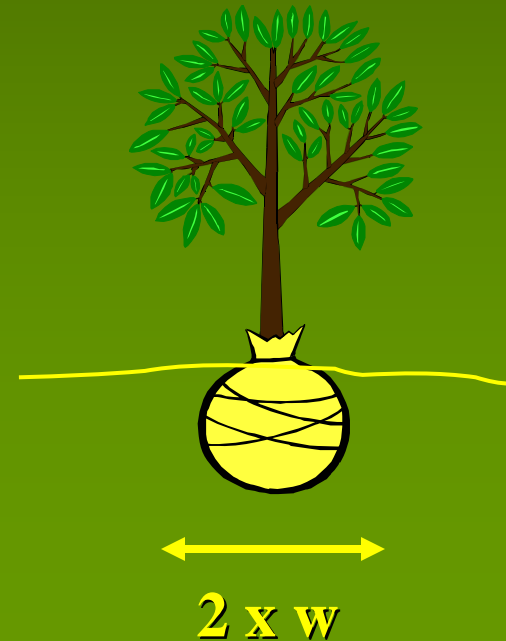
Where To Plant?

- **THINK MATURE SIZE**
- **Consider...**
 - ❖ **Planting area,**
 - ❖ **Rate of growth,**
 - ❖ **Thinning/pruning,**
 - ❖ **Replacement schedules,**
 - ❖ **Life expectancy.**



The Planting Hole...

- **Hole size:**
 - ❖ **Deep enough to contain the root ball.**
 - ❖ **At least 2 x Width & as deep...?**
- **Account for settling.**
 - ❖ **Not too high, not too deep.**



The Planting Hole...

➤ **To add or not to add amendments?**

❖ **Best not to greatly modify or amend the soil.**

❖ **Mix, Mix, Mix if you add...**

➤ **Drainage... Plants don't like wet feet!**

➤ **Also, remember to:**

❖ **Keep roots moist during planting process.**

❖ **Spread roots as possible.**



Backfill...

- Use native soil to backfill.
- Fertilizer not recommended for new trees/shrubs (unless required through soil testing).
- Water to:
 - ❖ Settle soil
 - ❖ Remove air pockets.
- Mulches
 - ❖ Maintain Constant soil temps.
 - ❖ Reduce water loss.
 - ❖ Prevent weeds.



How about the roots, as well as the shoots!

- **Remove**
 - ❖ **Dead,**
 - ❖ **Diseased,**
 - ❖ **Broken,**
 - ❖ **Twisted,**
 - ❖ **Kinked,**
 - ❖ **Girdling**
 - ❖ **Circling roots.**



Planting & Staking

- **Staking:**

- * **Protect**
- * **Anchor**
- * **Support**

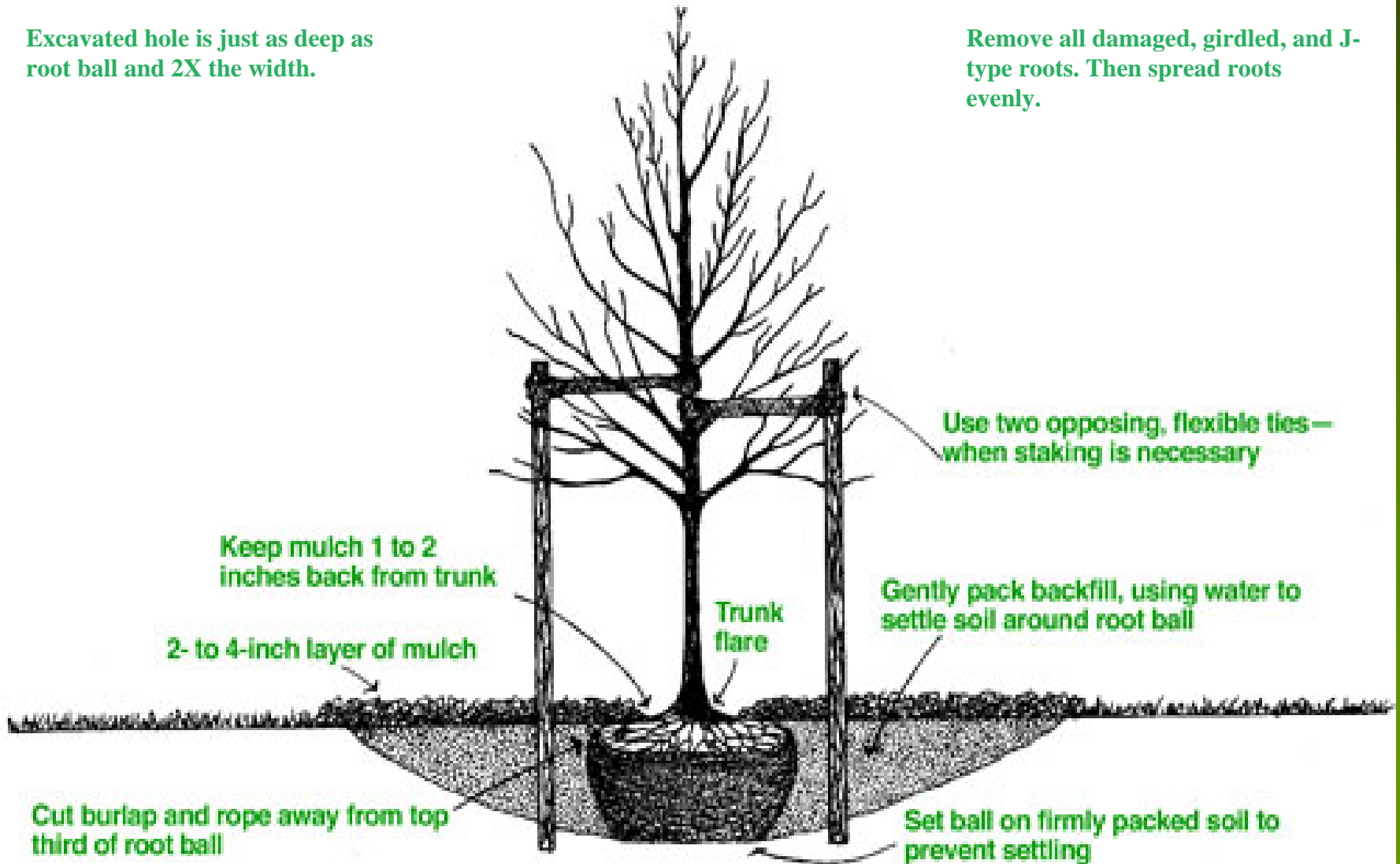
- **If plant can't stand by itself.**
- **Wind is a problem**
- **Remove after one growing season.**



Proper Tree Planting...

Excavated hole is just as deep as root ball and 2X the width.

Remove all damaged, girdled, and J-type roots. Then spread roots evenly.





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