

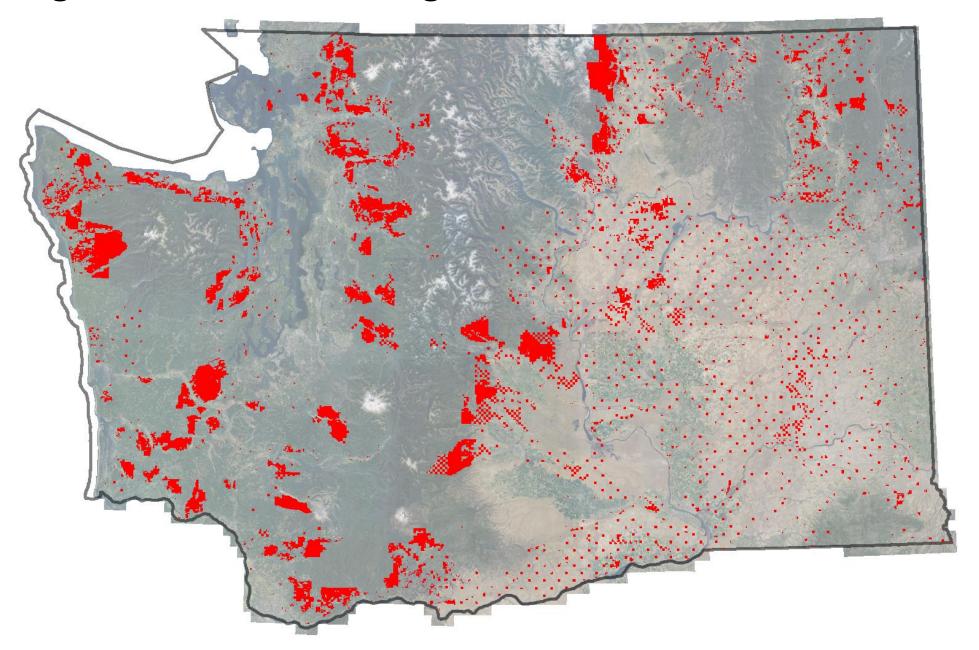
# The Ins and Outs of a Well-Written Reforestation Contract

#### **Zak Thomas**

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# WA DNR Silviculture at a glance

Washington State DNR manages over 2-million acres of forest land



\$5-million invested in young stand management contracts

40,000+
acres of
contract
work

60+ contracts

~25 contactors

# 2.The basics

#### Anatomy of a well-written reforestation contract

General clauses

**Activity specifications** 

Compliance mechanism

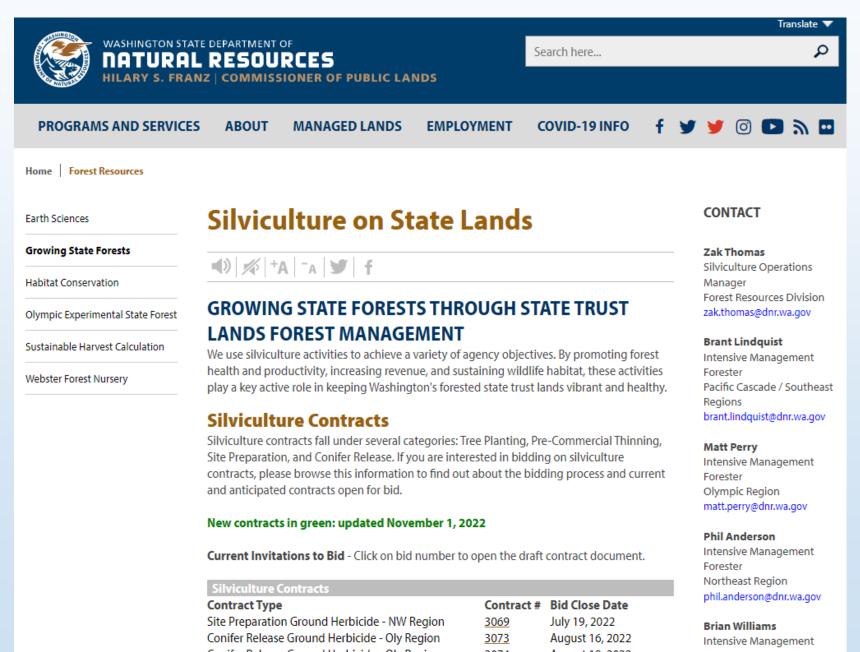
Payment determination



Anatomy of a well-written reforestation contract

# The most important parts of your contract are the compliance signature lines determination







• More bidders = lower prices

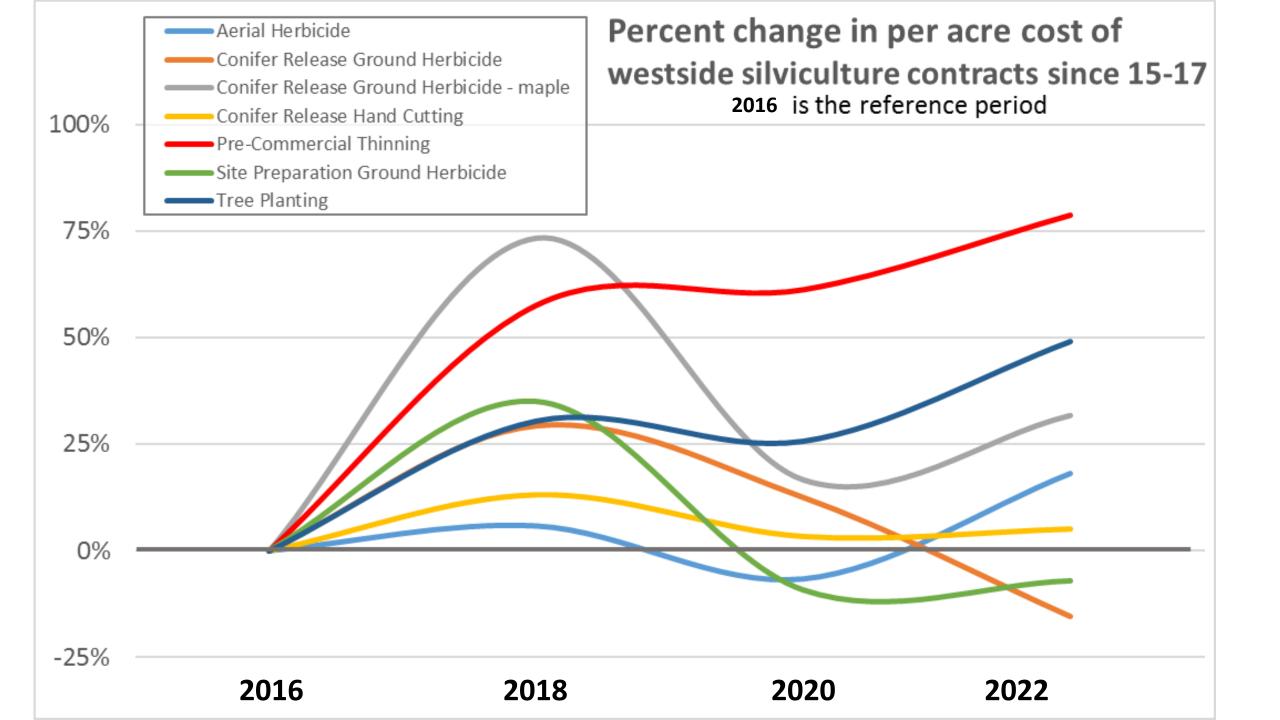


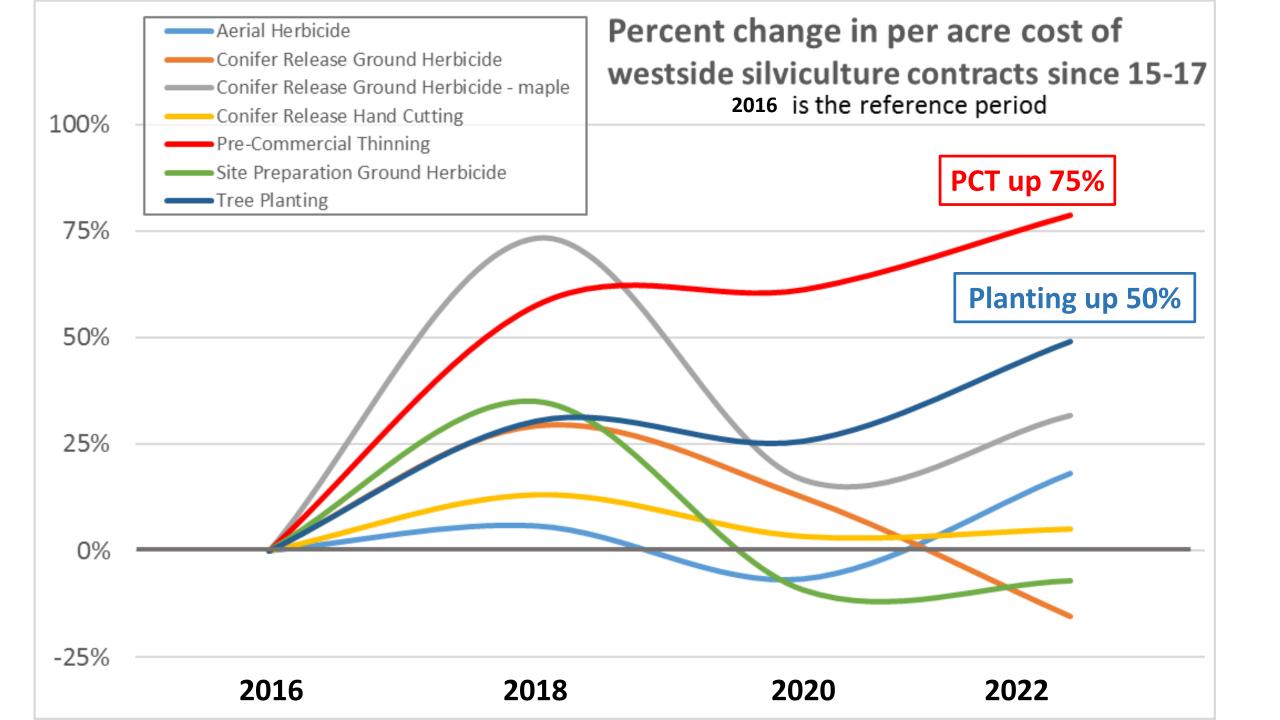
- More bidders = lower prices
- Things that influence bidder interest
  - Type of work
  - Contract size
  - Term/seasonality
  - Regional contractor demand
  - Geography



- More bidders = lower prices
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- Before signatures its good to verify ability
  - Check references
  - Do they have enough workers?
  - Were they able to view the units?
  - Are they working on other contracts?
  - Have they done this type of work before?
  - Have they worked in this forest type?







# Some ideas for your next contract

If it is not in the contract then it is up for debate — if it is something worth worrying about add it to the contract

 A contract is a means to mitigate risk...(legally) protect yourself and your resources



- A contract is a means to mitigate risk...(legally) protect yourself and your resources
  - Indemnification

- Insurance
- Work with licensed contactors
  - Farm labor contactors certified for reforestation work
  - Pesticide licenses



Think about the contact term



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- Specify the order which units will be completed



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- Give yourself the ability to modify/cancel contact, and stop operations at any point



- Think about the contact term
- Specify the order which units will be completed
- Give yourself the ability to modify/cancel contact, and stop operations at any point
- Define what is an acceptable crew size



A clear implementation plan



A simplified model for an implementation plan in a contract



A clear implementation plan



A clear implementation plan

Avoid ambiguous or dead-end language



A clear implementation plan

Avoid ambiguous or dead-end language

Performance security



A clear implementation plan

Avoid ambiguous or dead-end language

Performance security

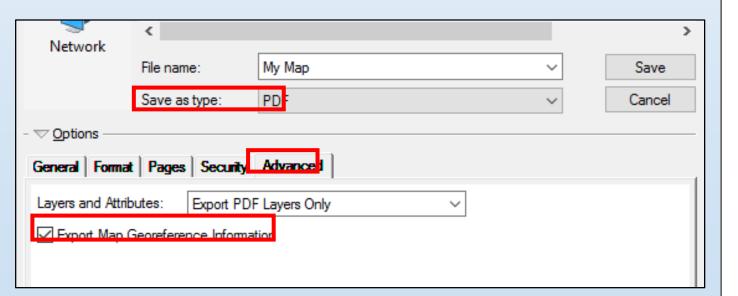
Pre-work conference



#### A good map is key



#### AVENZA MAPS

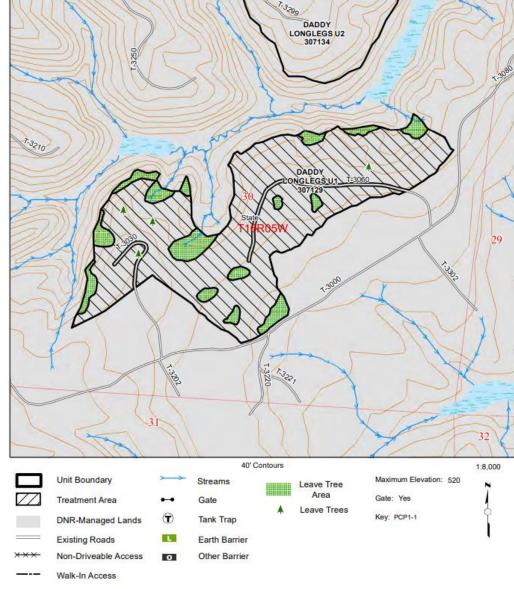


#### **UNIT MAP**

Activity Type: Tree Planting Pacific Cascade Region Bid No. 3094

Work Unit: Lewis Treatment Acres: 75 Unit No. 14

Jnit Name: DADDY LONGLEGS U1



- Tree Planting
  - Handling of seedlings and general care of planting stock



- Tree Planting
  - Handling of seedlings and general care of planting stock
  - Define what a properly planted seedling looks like



- Tree Planting
  - Handling of seedlings and general care of planting stock
  - Define what a properly planted seedling looks like
  - Weather conditions



- Tree Planting
  - Handling of seedlings and general care of planting stock
  - Define what a properly planted seedling looks like
  - Weather conditions
  - Minimum and average spacing



- PCT
  - Thinning method



- PCT
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  - How to select trees to leave/take?



- PCT
  - Thinning method
  - How to select trees to leave/take?
  - Stump height



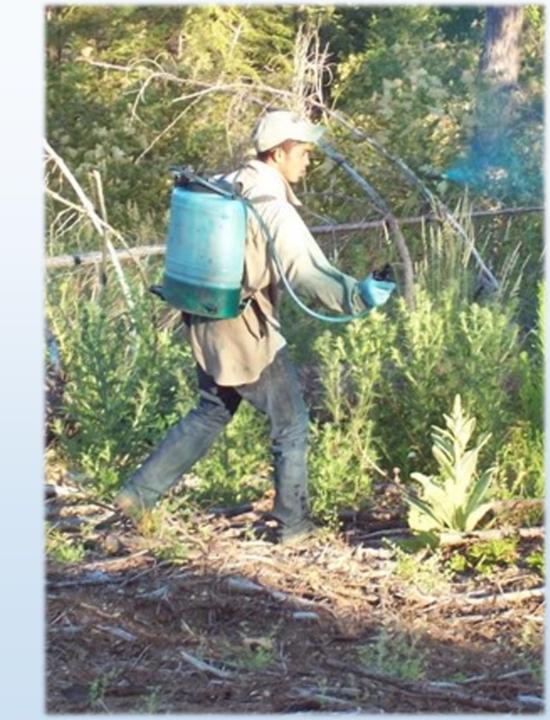
- PCT
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  - Stump height
  - Hangers



- PCT
  - Thinning method
  - How to select trees to leave/take?
  - Stump height
  - Hangers
- Allow for some level of variability around your target



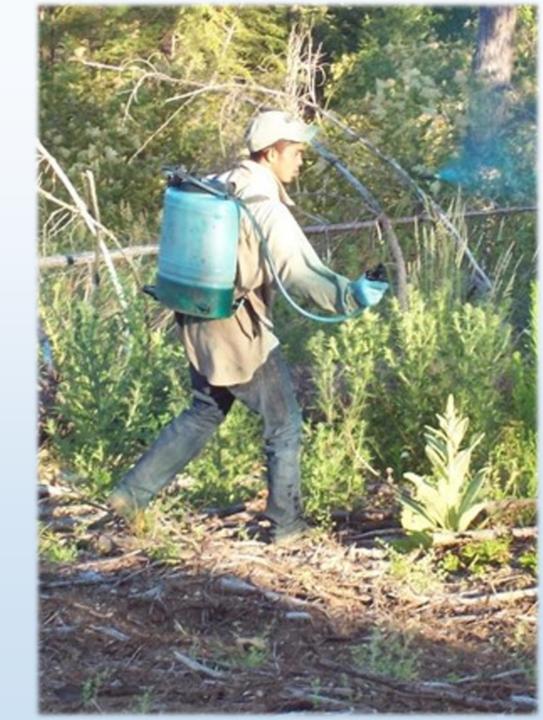
- Herbicide
  - Mix and target vegetation



- Herbicide
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  - Batch capacity and method



- Herbicide
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  - Weather conditions



- Herbicide
  - Mix and target vegetation
  - Batch capacity and method
  - Weather conditions
  - Where not to spray



- Herbicide
  - Mix and target vegetation
  - Batch capacity and method
  - Weather conditions
  - Where not to spray
  - Agitation



If it is not in the contract then it is up for debate – if it is something worth worrying about add it to the contract

### Recommendations for larger contacting programs

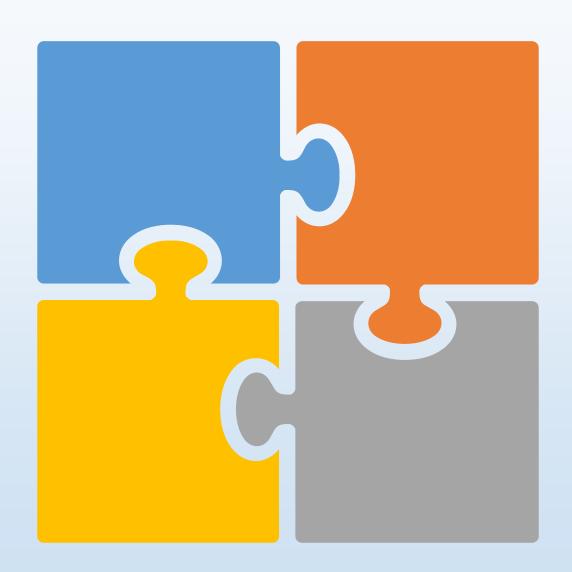
 Invest in maintaining the diversity of your contactor pool



### Recommendations for larger contacting programs

 Invest in maintaining the diversity of your contactor pool

 Maximize the size of your network within your organization



#### Recommendations for larger contacting programs

 Invest in maintaining the diversity of your contactor pool

 Maximize the size of your network within your organization

Have an evaluation system and feedback loop



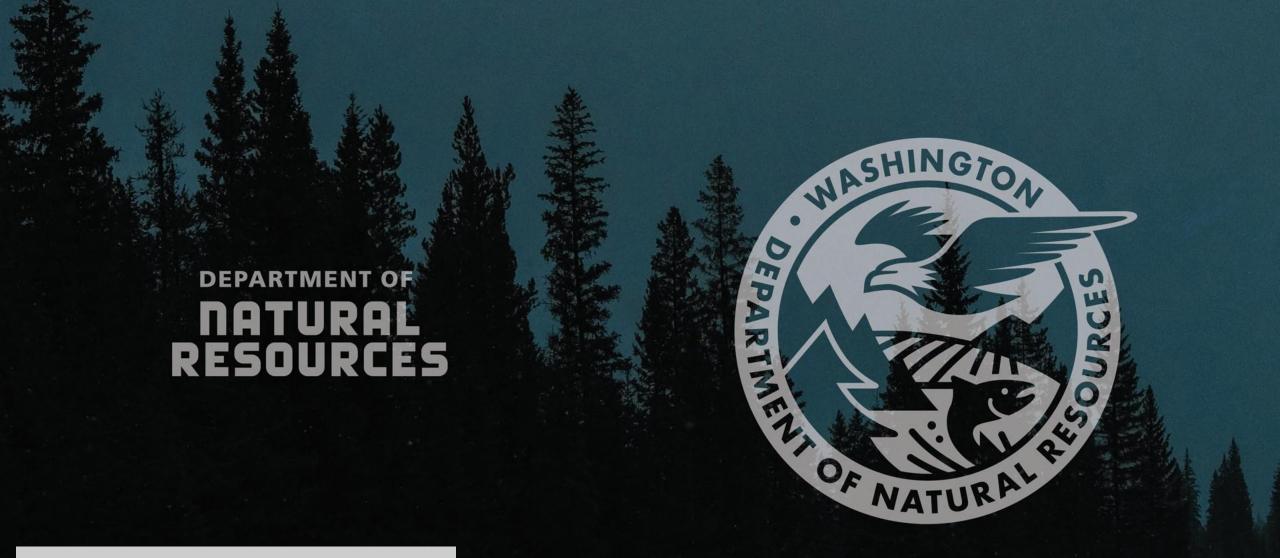
#### Contact administration is critical!!

 You can have the best contact ever but it doesn't really matter if there is not effective contract compliance

#### **Compliance Report**

Item	Value
Sample Weighted	
Plots Measured	7 Plots
Plantable Spots	40.6 Spots
Trees Measured	41.0 Trees
Compliant Trees	37.0 Trees
Non-compliant Trees	4.0 Trees
% Damaged Trees	9% Trees
Measured Trees Per Acre	293 TPA
Performance Rating <sup>^</sup>	91% Passing





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# WDTCS – What does the contract say



