

# New Company from October 2022

envu™





**Same people and same products  
as Bayer Environmental Science**



# Envu Business Segments



Professional Pest Mgmt.



Industrial Vegetation Mgmt.



Range & Pasture



Forestry



Mosquito Management



Lawn & Landscape



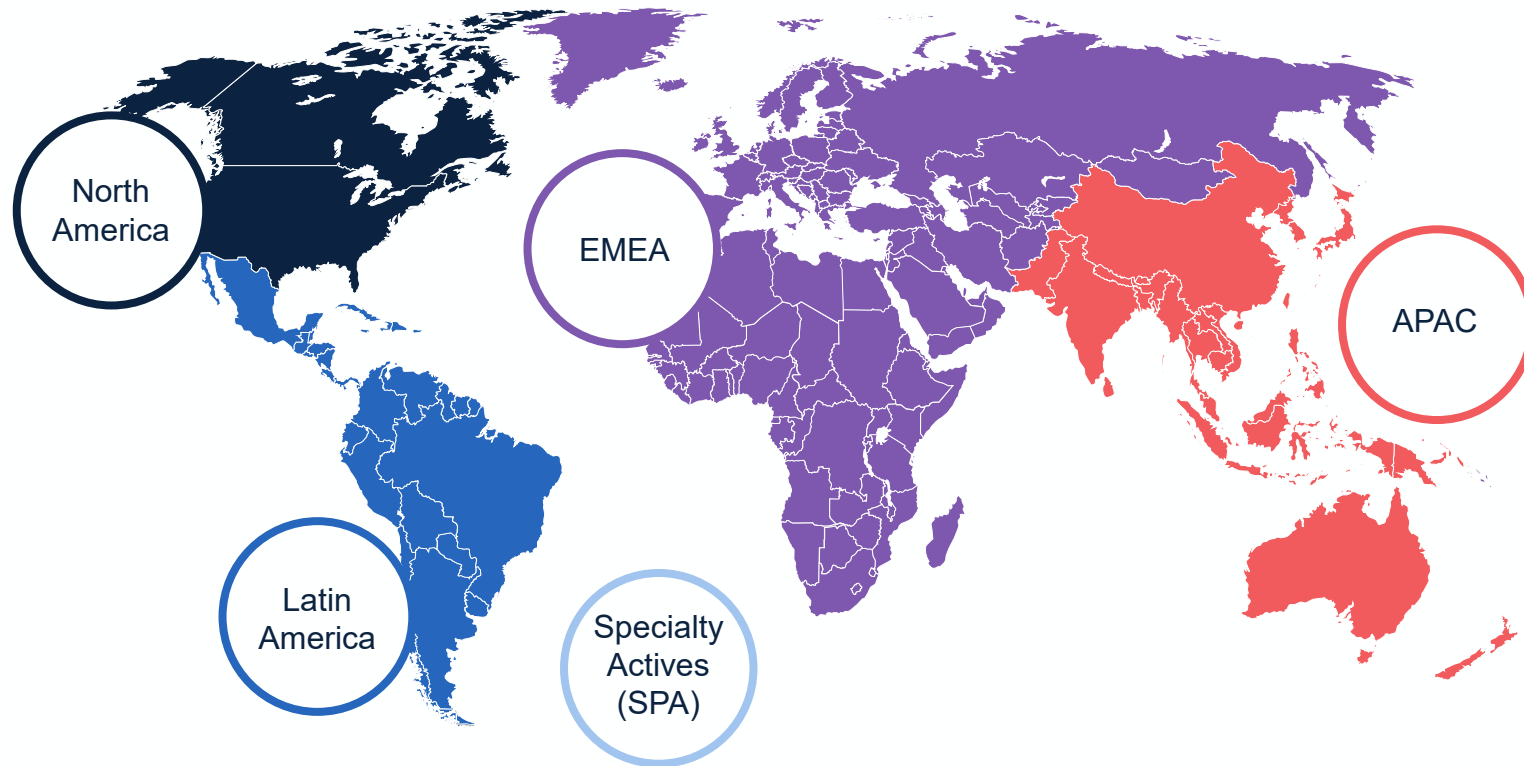
Ornamentals



Golf



# Global Operations



**Commercial Operations  
AMERICAS**

**Commercial Operations  
EMEA/APAC**



# Envu key figures

2022



**INNOVATION**  
4 main R&D hubs  
around the world



**EMPLOYEES**  
+900 FTEs



**GLOBAL PRESENCE**  
Operations and Sales  
in more than 100 countries



# Efficient Establishment: Stopping Weeds Before They Emerge



PNW Forest Vegetation Management Conference  
December 2022  
Harry Quicke and Jerry Ellis







**What is needed to stop weeds  
before they emerge?**

**A pre-ergence herbicide to target  
the soil seed bank**

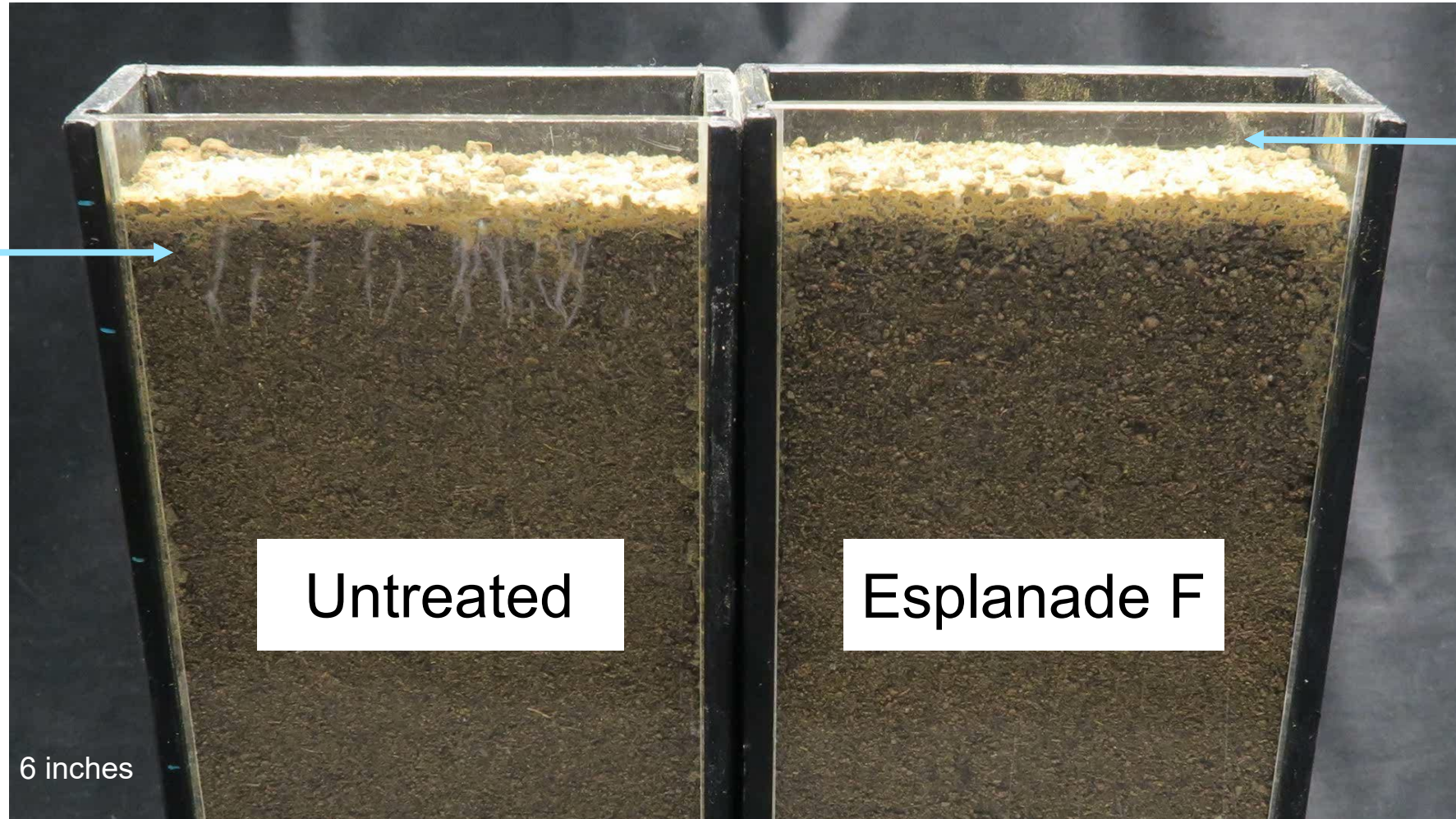
# Esplanade F is a pre-emergence herbicide



↑  
Needs to be activated by rainfall at this stage.  
Tank mix partners are needed to control weeds at later stages.



# Cheatgrass time lapse video spanning 10 days



Root growth  
before  
emergence

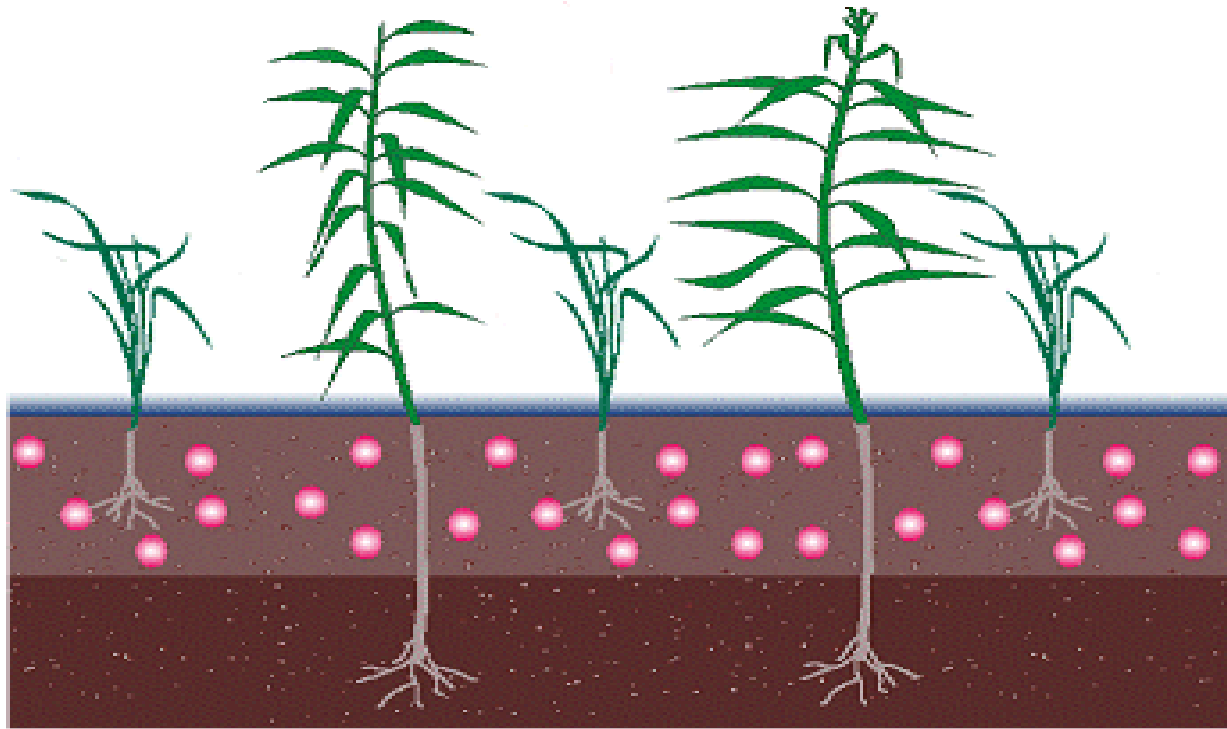
Cheatgrass  
emerges but  
dies without  
roots

Untreated

Esplanade F

6 inches

## Does not impact conifer root growth



### Herbicide stays in top layer

- roots of germinating weeds contact the herbicide
- root growth stops

### No herbicide below

- tree roots do not contact herbicide



Ponderosa pine  
*Pinus ponderosa*

Douglas-fir  
*Pseudotsuga menziesii*

Incense cedar  
*Calocedrus decurrens*





# Esplanade F

## Advantages

### Extended residual weed control

// Herbaceous weed control into the second year after treatment

### Low use rate (7 oz/A)

### Low volatility and low photodegradation

// Herbicide waits on soil surface until activated by precipitation

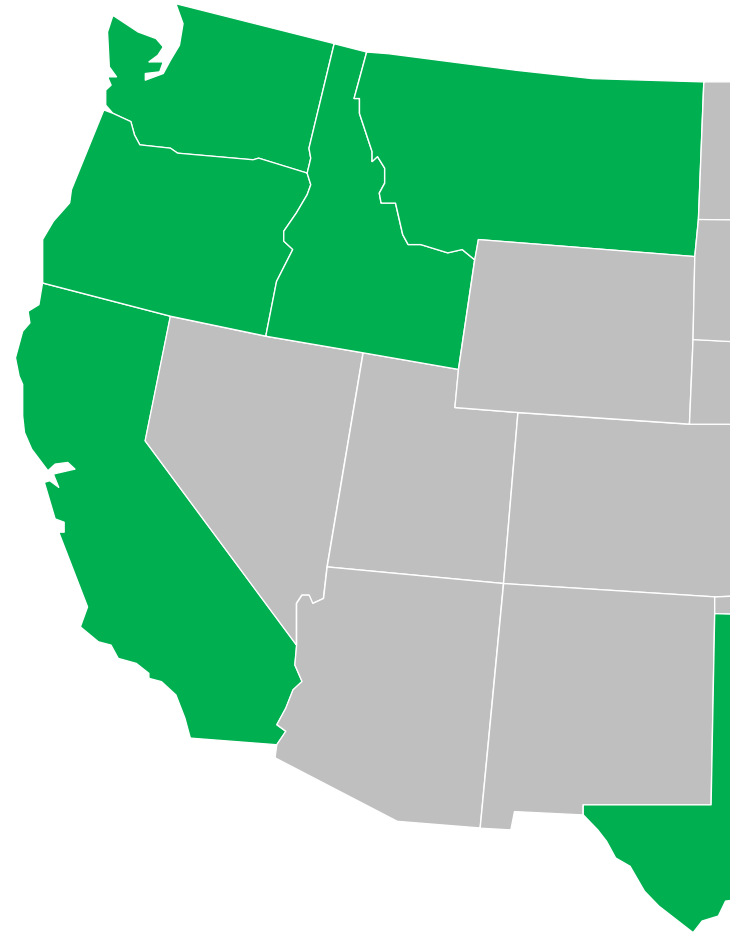
### Low water solubility and tight binding to soil

// Herbicide stays near the soil surface where it continues to inhibit germination

### Pre-emergence control of annual grasses and many broadleaf weeds

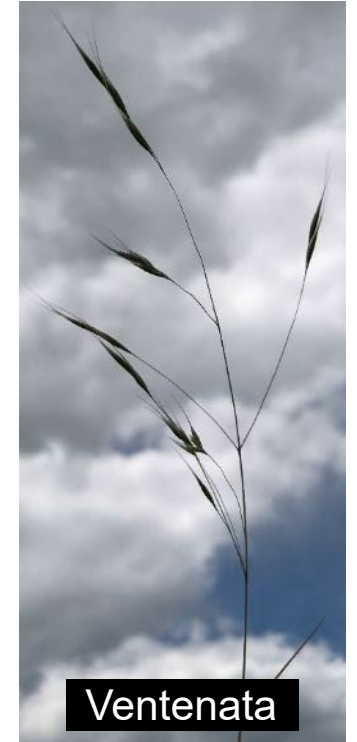


# Western State Registrations



# Multi-year control of invasive annual grasses

- // Cheatgrass / downy brome (*Bromus tectorum*)
- // Cheat (*Bromus secalinus*)
- // Medusahead (*Taeniatherum caput-medusae*)
- // Ventenata (*Ventenata dubia*)
- // Jointed goatgrass (*Egilops cylindrica*)





# **Impact of annual grass on fire behavior**

**Graduate student project at  
University of Idaho**

Burn experiments were conducted with *Bromus tectorum* (invasive annual grass) and two native perennial bunchgrasses (Bluebunch wheatgrass and Columbia needlegrass) across a range of typical fire season fuel moistures (5-55%).

Burned 20 g of perennial grass with 2.5, 5, 10, and 15 g of cheatgrass.

Flammability was assessed by recording temperature, flame length, and mass consumption throughout each burn.







Annual grass sustained high ignitability and mass consumption even at the highest moisture levels

Suggests increased ignitability and spread even before senescence

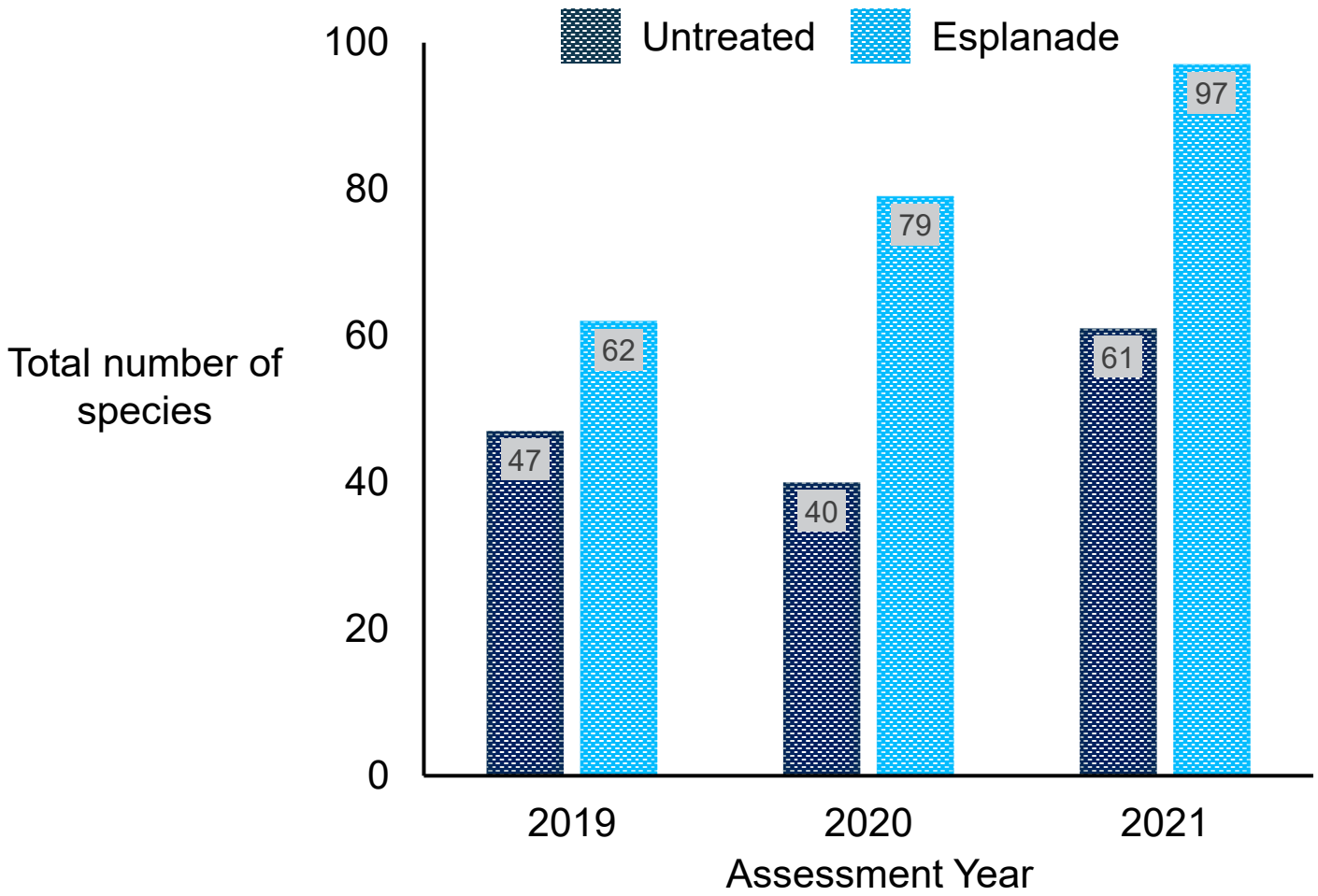
Even small amounts of annual grass mixed with perennial grass increased flaming duration, maximum temperature, and mass consumption

# Impact of Esplanade on Species Diversity



# Environmental Stewardship

- Esplanade F controls weeds during the critical early years after planting
- A diversity of species can recolonize in later years



Evaluation of 12 rangeland sites in Colorado

Treatment Year	Number of sites
2016	3
2018	7
2019	2

# **Impact of Esplanade on Small Mammals**

**Collaborative project with  
Boulder County and Cedar Creek  
Associates**





☀ 305°NW (T) LAT: 40.181283 LON: -105.259309 ±4m ▲ 1767m





	Rabbit Mtn (6/22-6/24)		Trevaton (7/29-7/31)		Hall Ranch (8/25-8/27)	
	Treated	Untreated	Treated	Untreated	Treated	Untreated
Deer mouse	3	2	2	3	2	6
Hispid pocket mouse	1	-	1	1	-	-
Long-tailed vole	1	-	-	-	-	-
Mexican woodrat	1	-	5	5	-	-
Olive-backed pocket mouse	-	-	2	-	-	-
Species Diversity (# of species)	4	1	4	3	1	1
Total Captures	6	2	10	9	2	6

Untreated sites did not have annual grass invasion

Trial was to determine if Esplanade treatment had a negative impact





# Impact of Esplanade on Soil Crusts

## RESEARCH ARTICLE



# No evidence of three herbicides and one surfactant impacting biological soil crusts

Mandy L. Slate<sup>1,2,3</sup> , Rebecca A. Durham<sup>1</sup>, Chuck Casper<sup>1</sup>, Daniel Mummey<sup>1</sup>, Philip Ramsey<sup>1</sup>,  
Dean E. Pearson<sup>4,5</sup> 

Land managers rely heavily on herbicides to mitigate exotic plant invasions but the nontarget effects of herbicides on treated plant, animal, and soil communities are often overlooked. Biological soil crusts (biocrusts) are important components of ecosystems yet the effects of different herbicides on biocrusts are rarely considered. We tested the impact of three widely used herbicides, indaziflam, imazapic, aminocyclopyrachlor, and chlorsulfuron, two of which were applied with or without a surfactant, on biocrusts dominated by mosses or lichens in intermountain grasslands. We found that neither the herbicides nor surfactant impacted biocrust moss or lichen cover within 2 years of their application.

**Key words:** aminocyclopyrachlor and chlorsulfuron, biocrusts, herbicide, imazapic, indaziflam, surfactant

# Esplanade F

Group 29 herbicide

// Cellulose biosynthesis inhibitor

Not on FSC list of Highly Hazardous Pesticides

Labeled Personal Protective Equipment\*

// Long sleeved shirt and long pants

// Shoes plus socks

// Waterproof gloves

\* Follow state regulations if different from the label



Because Esplanade provides extended control of emerging weeds there are opportunities to transition to a one-pass fall site preparation program

# One Pass Vegetation Control

Cascades, OR



# One pass vegetation control prescription

## Cascades Ecoregion, OR

Prescription based on replicated trials established on 5 sites

- // 7 oz Esplanade F
- // 1.5 lb Velpar DF
- // 4 oz Oust Extra
- // 3 qt Accord

Applied in September



# Coast Range example demonstrating the value of long-term pre-emergence control

# Herbaceous Release Coast Range

Coast redwood

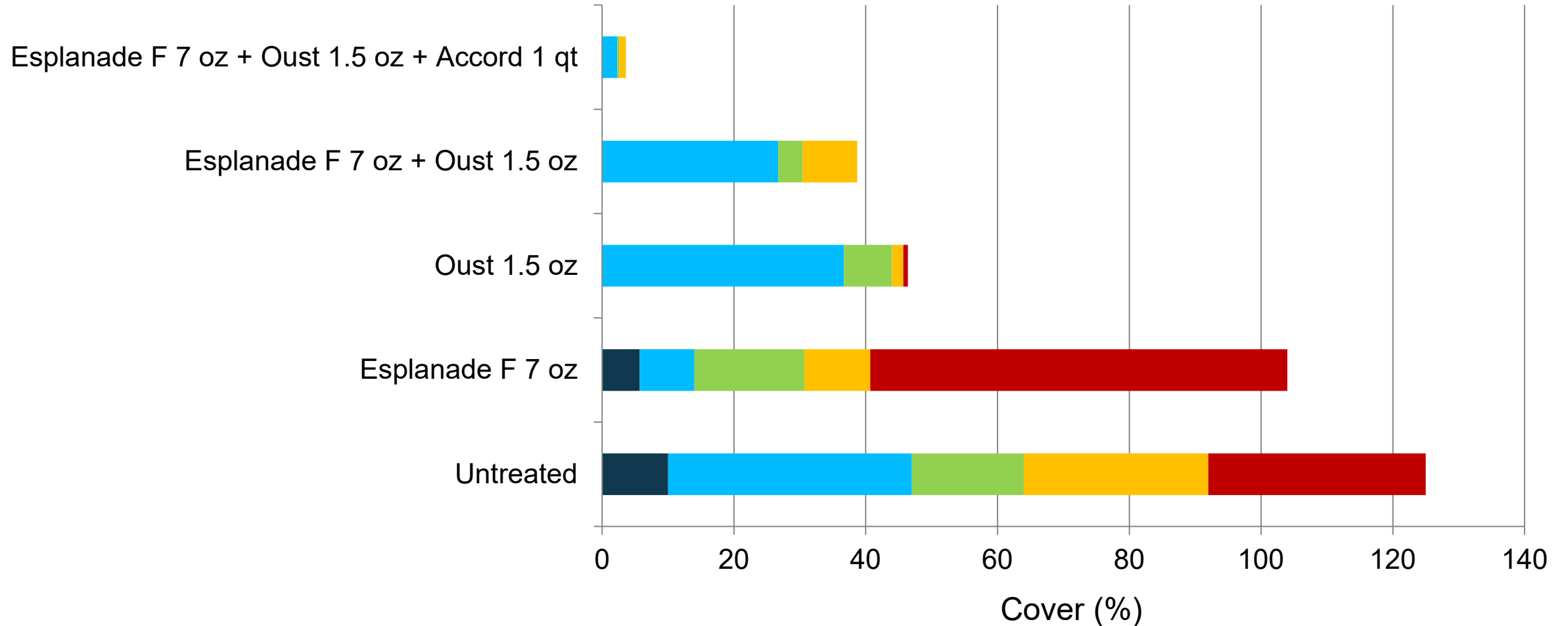


**Planted:** 2019 February  
**Applied:** 2019 February (day of planting)  
**Assessed:** 2019 July

% Cover for Oust Combinations

- Straight Esplanade not effective at this post emergence timing
- Oust or Esplanade+Oust provided good weed suppression
- Best control from Esplanade+Oust+Accord

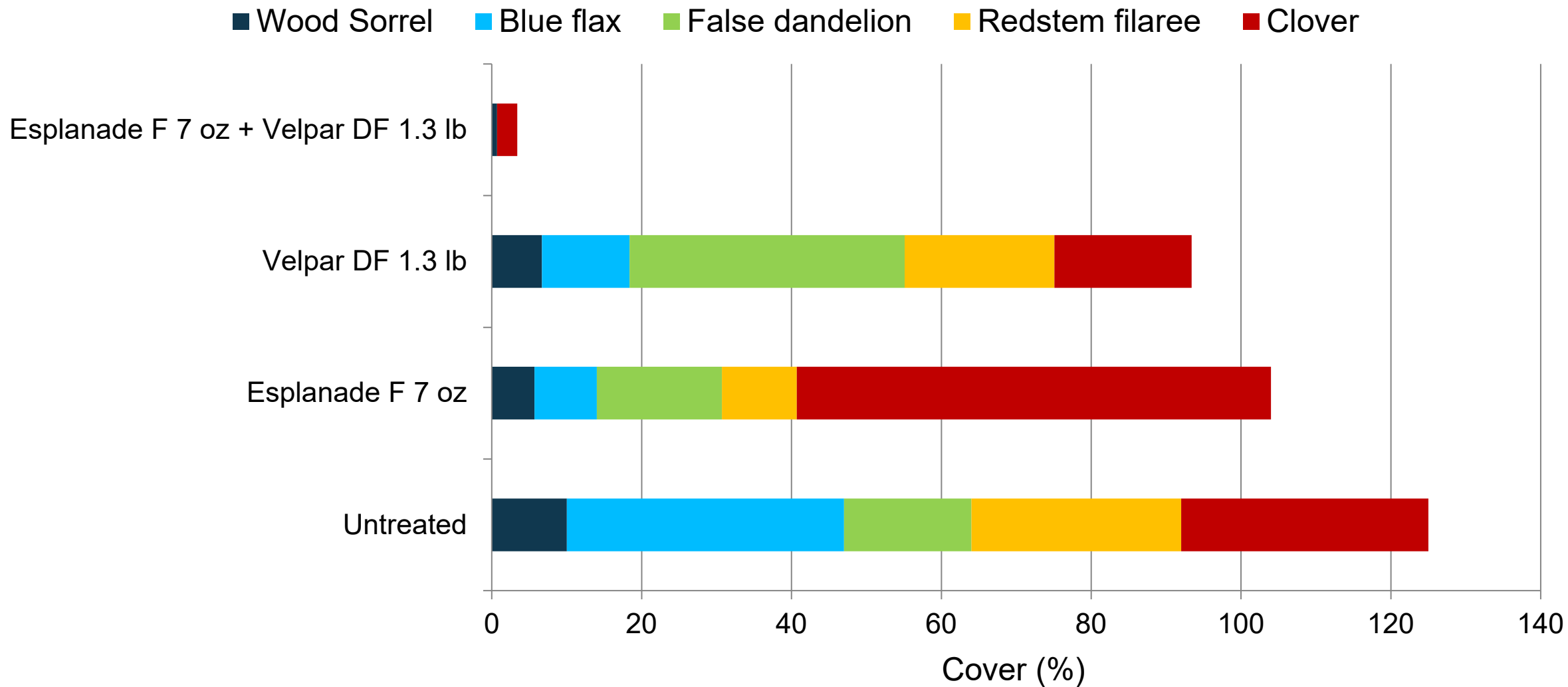
■ Wood Sorrel ■ Blue flax ■ False dandelion ■ Redstem filaree ■ Clover





**Planted:** 2019 February  
**Applied:** 2019 February (day of planting)  
**Assessed:** 2019 July

% Cover for Velpar Combinations  
Straight Esplanade or low rate Velpar not effective at this late timing  
Best control from Esplanade + Velpar

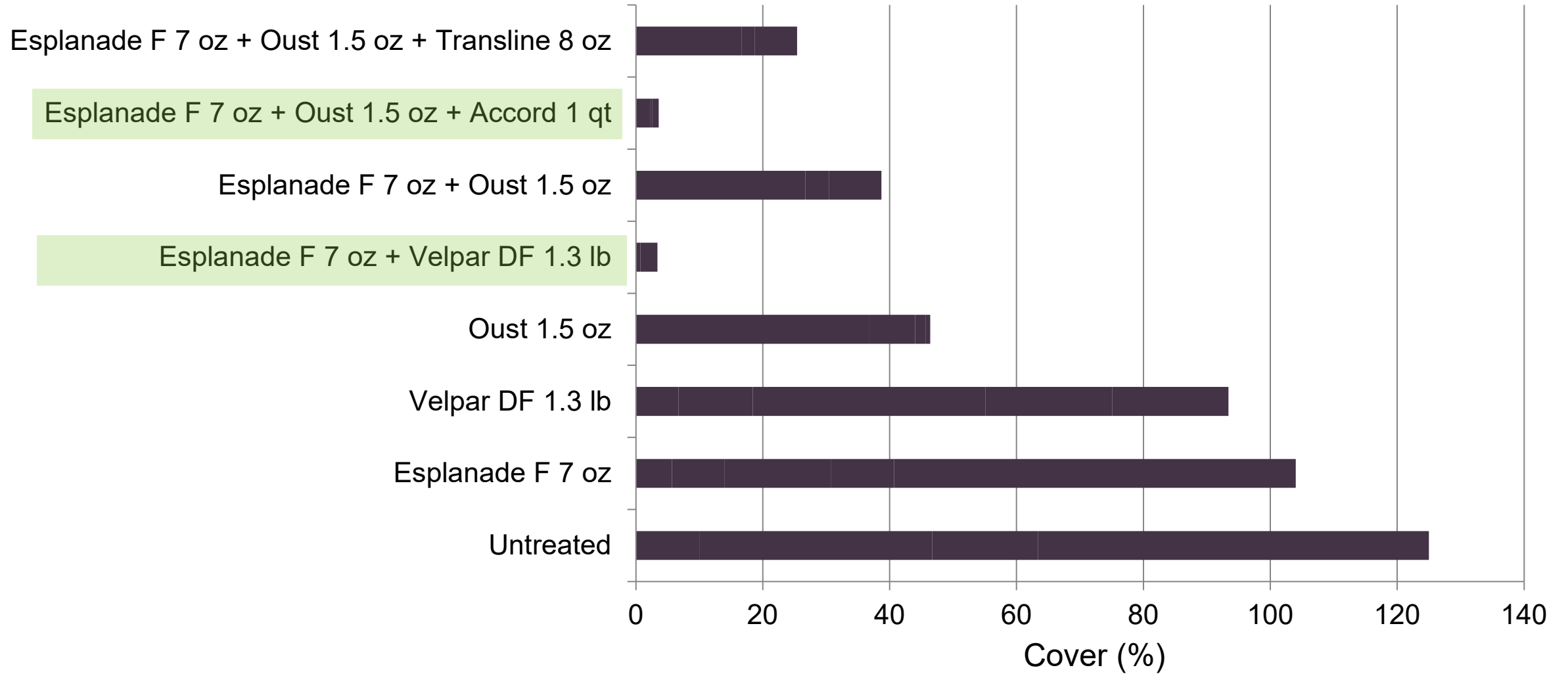


**Planted:** 2019 February  
**Applied:** 2019 February (day of planting)  
**Assessed:** 2019 July

% Cover for all treatments

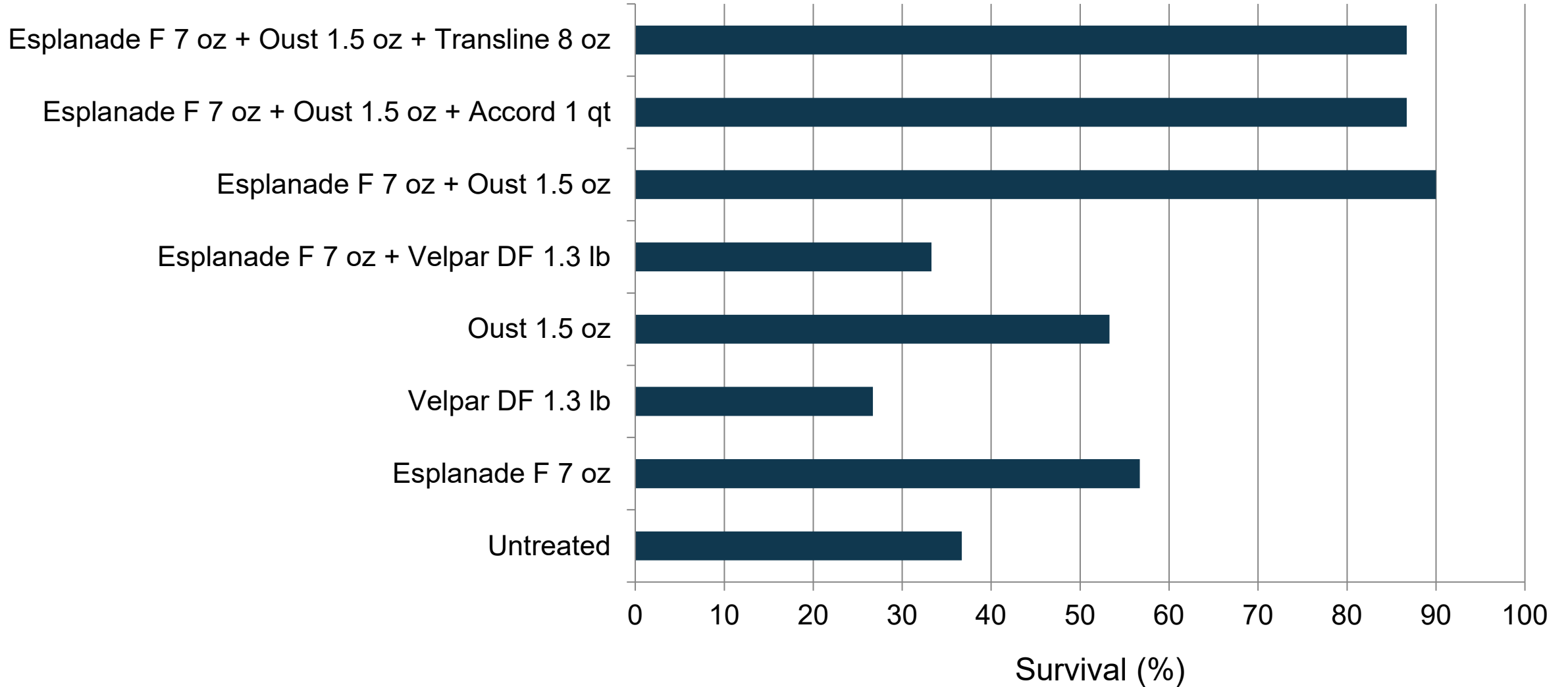
Best control from:

- Esplanade + Velpar
- Esplanade + Oust + Accord



# Redwood survival 2<sup>nd</sup> growing season

Esplanade F + Oust combos > 85% survival



Trees bagged before Esplanade + Oust + Accord treatment





Untreated





Esplanade F + Oust





Esplanade F + Velpar



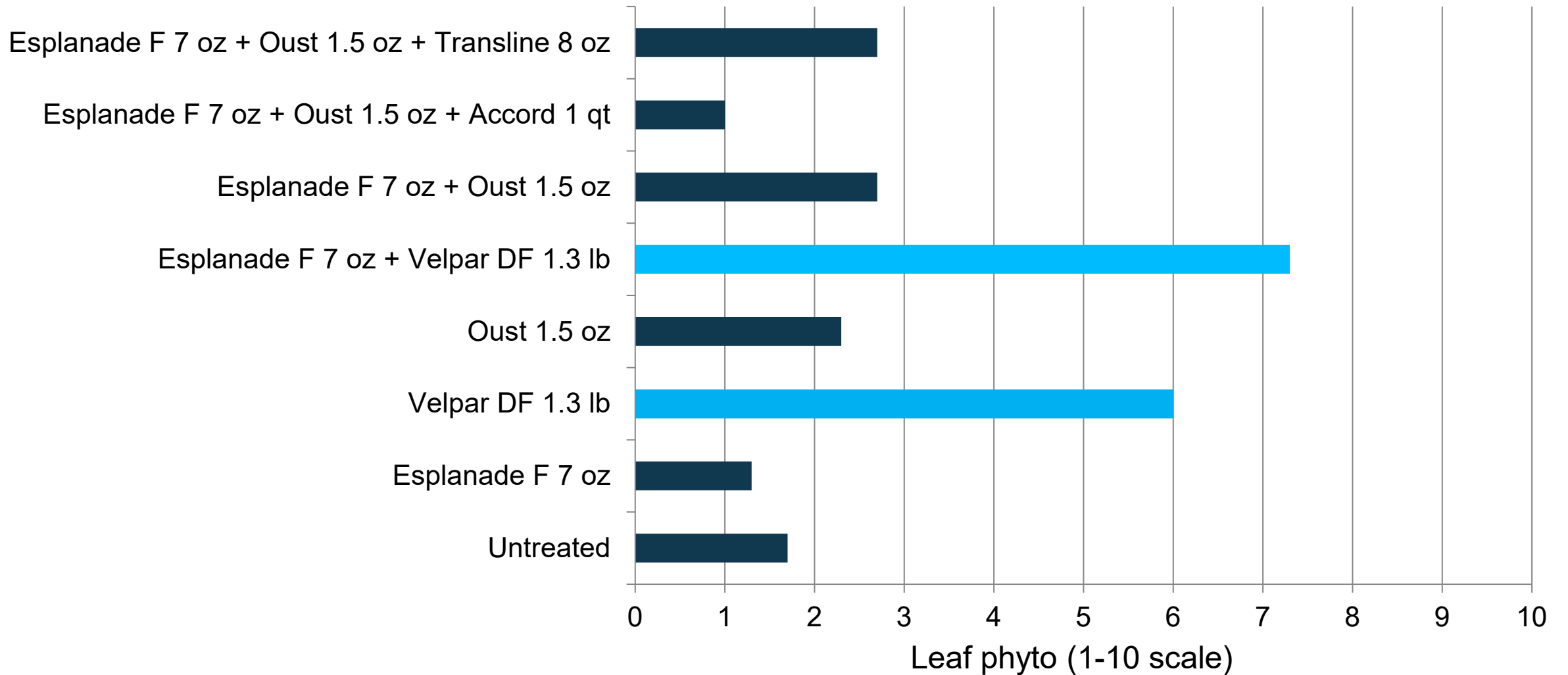


Esplanade F + Oust + Accord



# Redwood leaf phyto 1<sup>st</sup> growing season

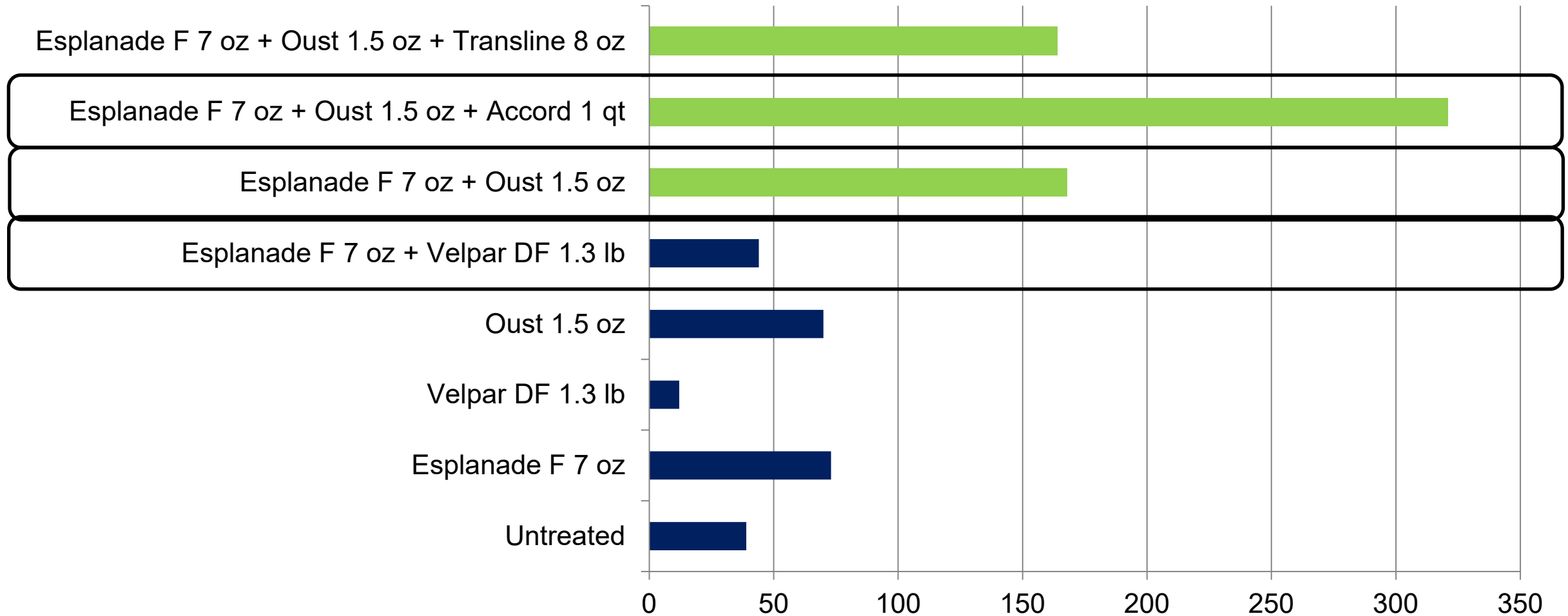
Phyto on redwood from Velpar



Trees bagged before Esplanade + Oust + Accord treatment

# Redwood plot stem volume index 2<sup>nd</sup> growing season

Esplanade+Oust+Accord the best treatment (8X growth increase)  
-- Treatment must be directed or apply prior to planting  
Esplanade+Oust can be applied over the top (4X growth increase)  
Esplanade+Velpar = good weed control but not tolerated by redwood  
-- Good combination for Velpar labeled species  
-- Need trials with fall application in coast redwood



Trees bagged before Esplanade + Oust + Accord treatment

Plot stem volume index (cm<sup>3</sup>)

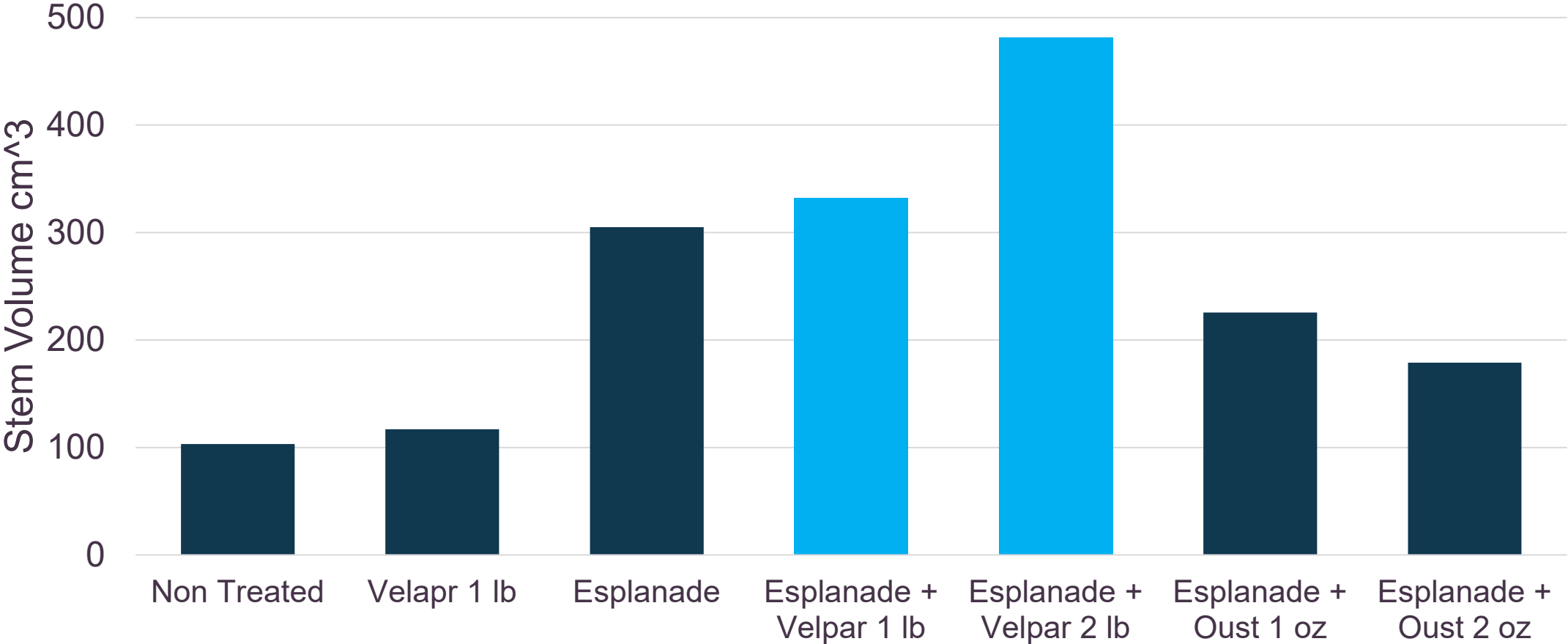


# Site Preparation Coast Range

Coast redwood

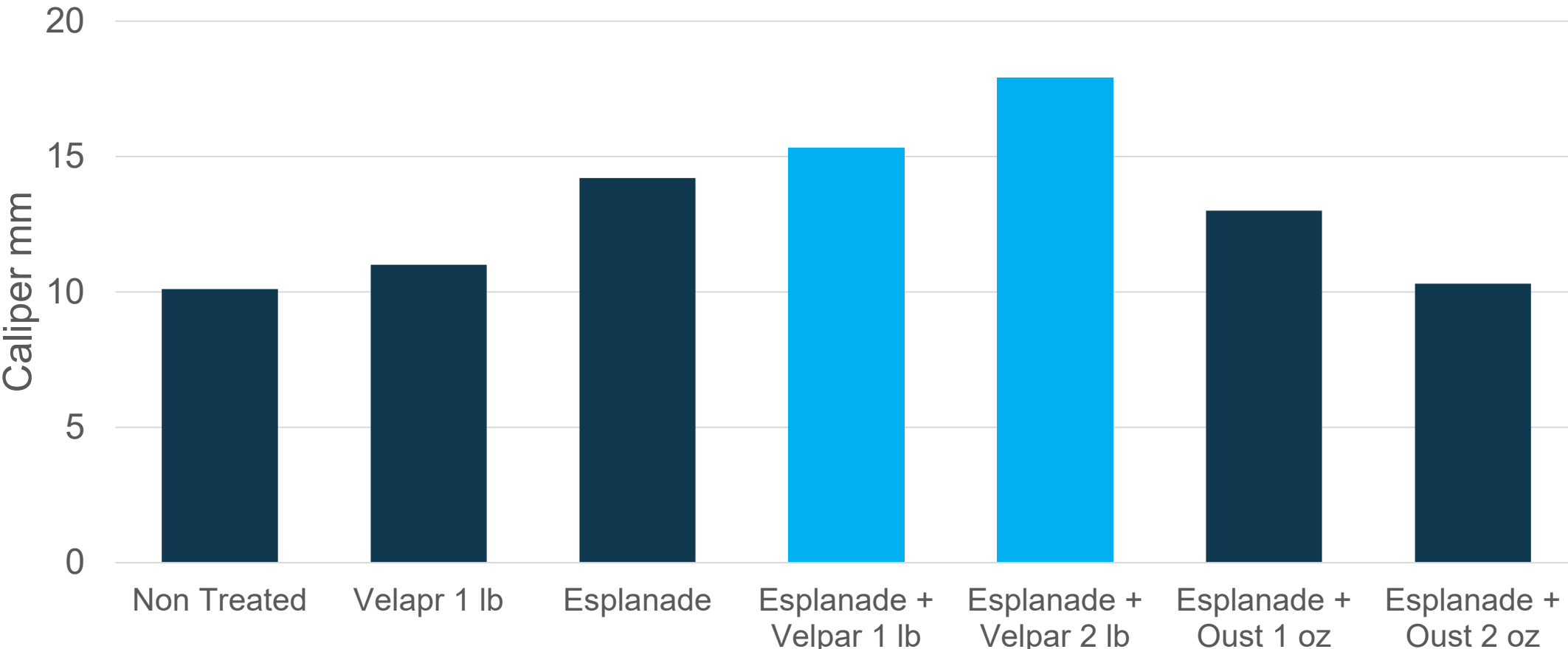


# Redwood Stem Volume 2 YAT for Coast Fall Site Prep Trial



All treatments with 2 qt Accord  
Esplanade rate is 7 oz

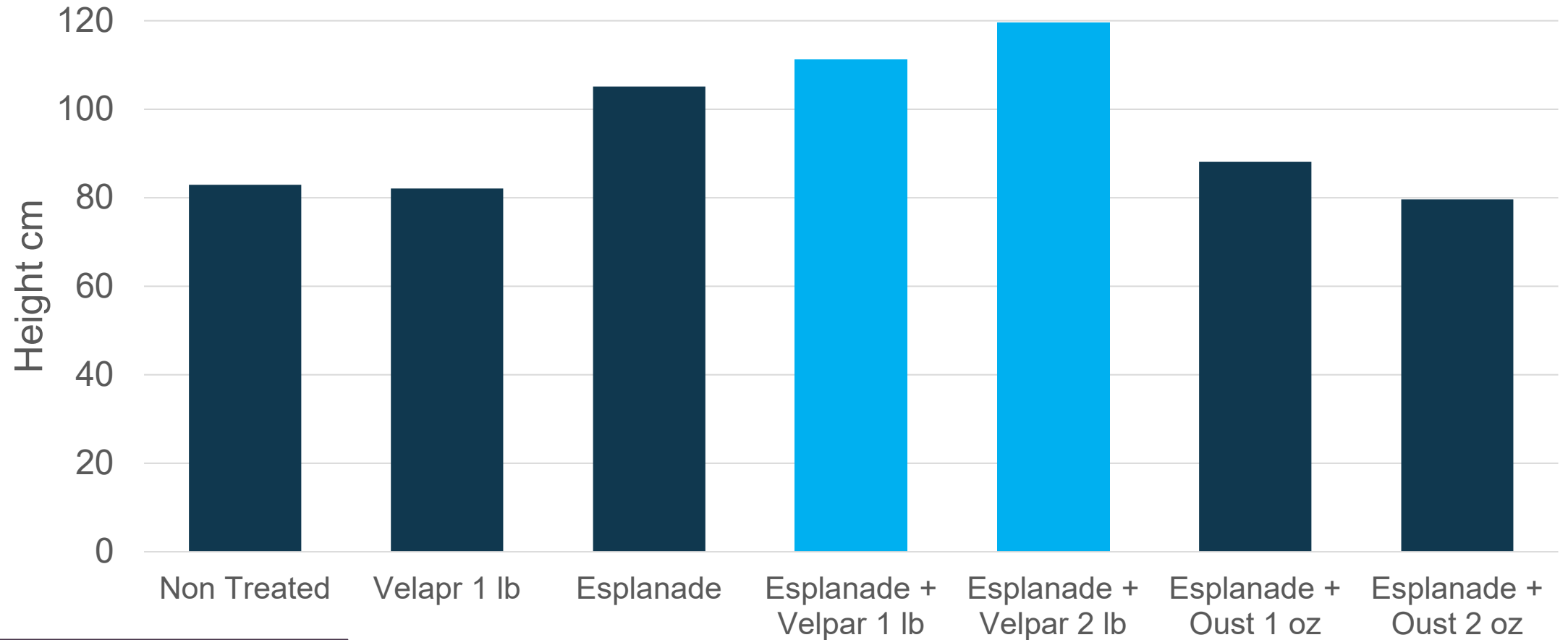
# Redwood Caliper 2 YAT for Coast Fall Site Prep Trial



All treatments with 2 qt Accord  
Esplanade rate is 7 oz

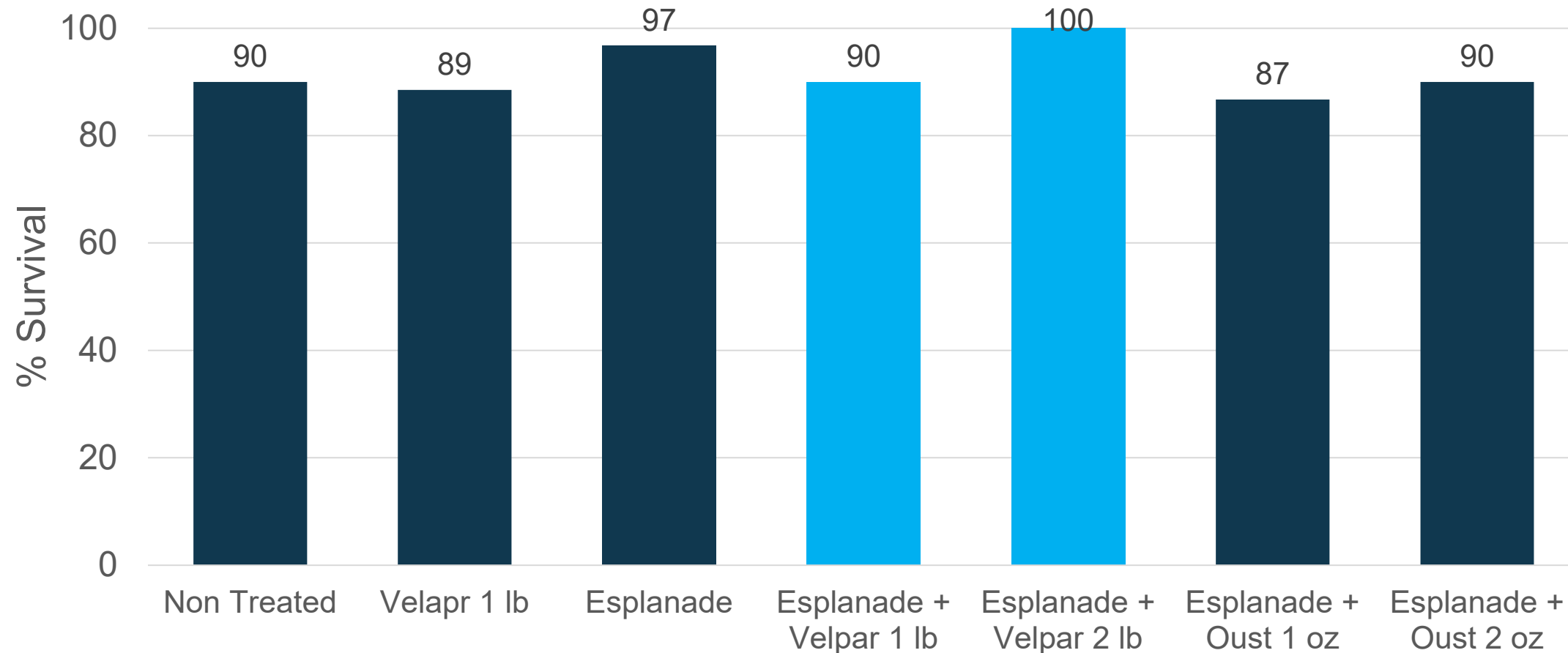


# Redwood Height 2 YAT for Coast Fall Site Prep Trial



All treatments with 2 qt Accord  
Esplanade rate is 7 oz

# Redwood % Survival 2 YAT for Coast Fall Site Prep Trial



All treatments with 2 qt Accord  
Esplanade rate is 7 oz

# Best treatments for spring herbaceous release and fall site prep in the Coast Range

## Spring herbaceous release

- // Directed: 7 oz Esplanade + 1.5 Oust + 1 qt Accord (Year 2 individual stem volume 321)
- // 7 oz Esplanade + 1.5 oz Oust (Year 2 individual stem volume 168)

## Fall site prep

- // 7 oz Esplanade + 2 lb Velpar (Year 2 individual stem volume 481)





# New Option for Velpar DF fall site prep in the Coast Range

Because Esplanade provides long term pre-emergence control the focus for Velpar becomes

- // Short term pre- and post-emergence control
- // Lower rates and fall application for crop tolerance

# Western Sierras example demonstrating the value of long-term pre-emergence control





Heavy cheat grass (*Bromus secalinus*) infested site  
after the RIM fire



Heavy thatch layer = major threat of fast spreading wildfire  
If cheat grass germination is stopped, thatch layer is reduced after one year  
Esplanade can stop annual grass germination for multiple years

Sugar pine

Ponderosa pine





# Herbaceous Release Western Sierras

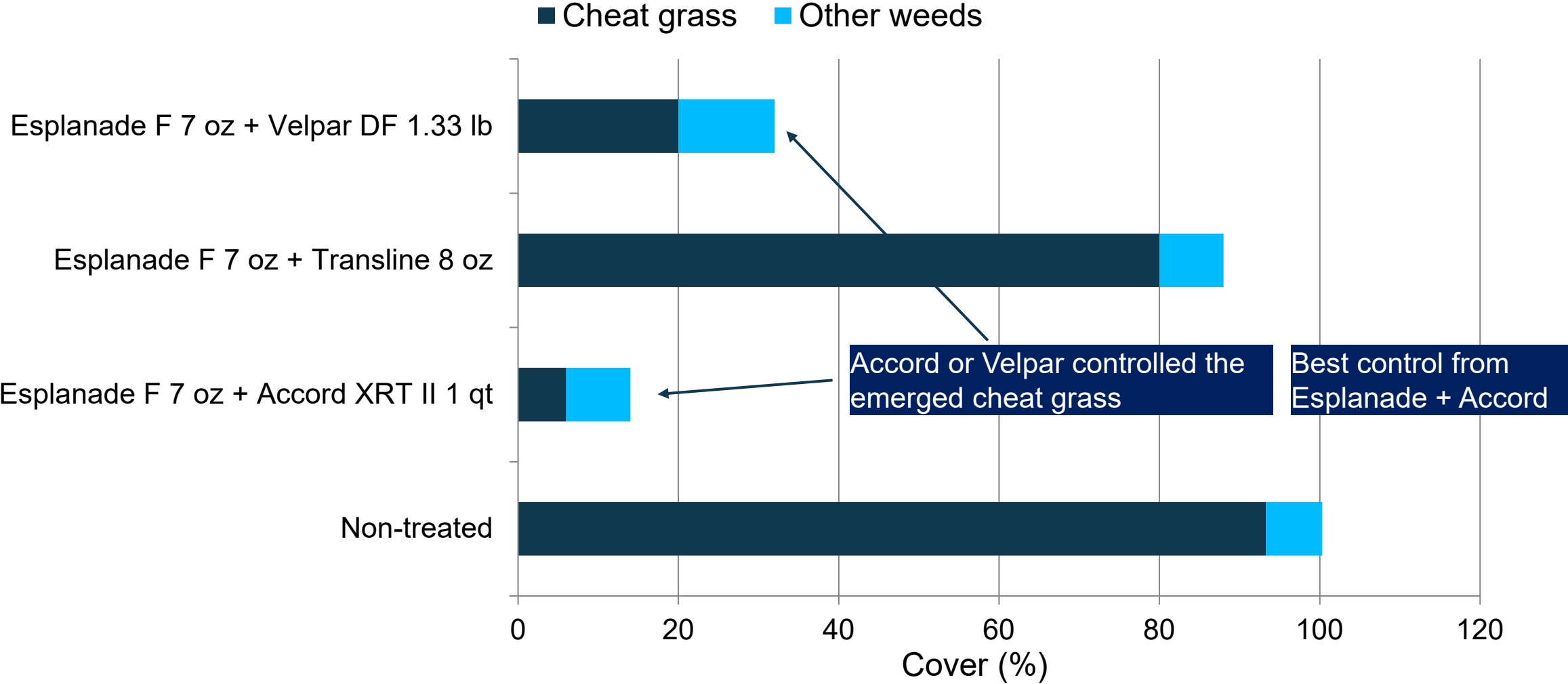
Ponderosa pine





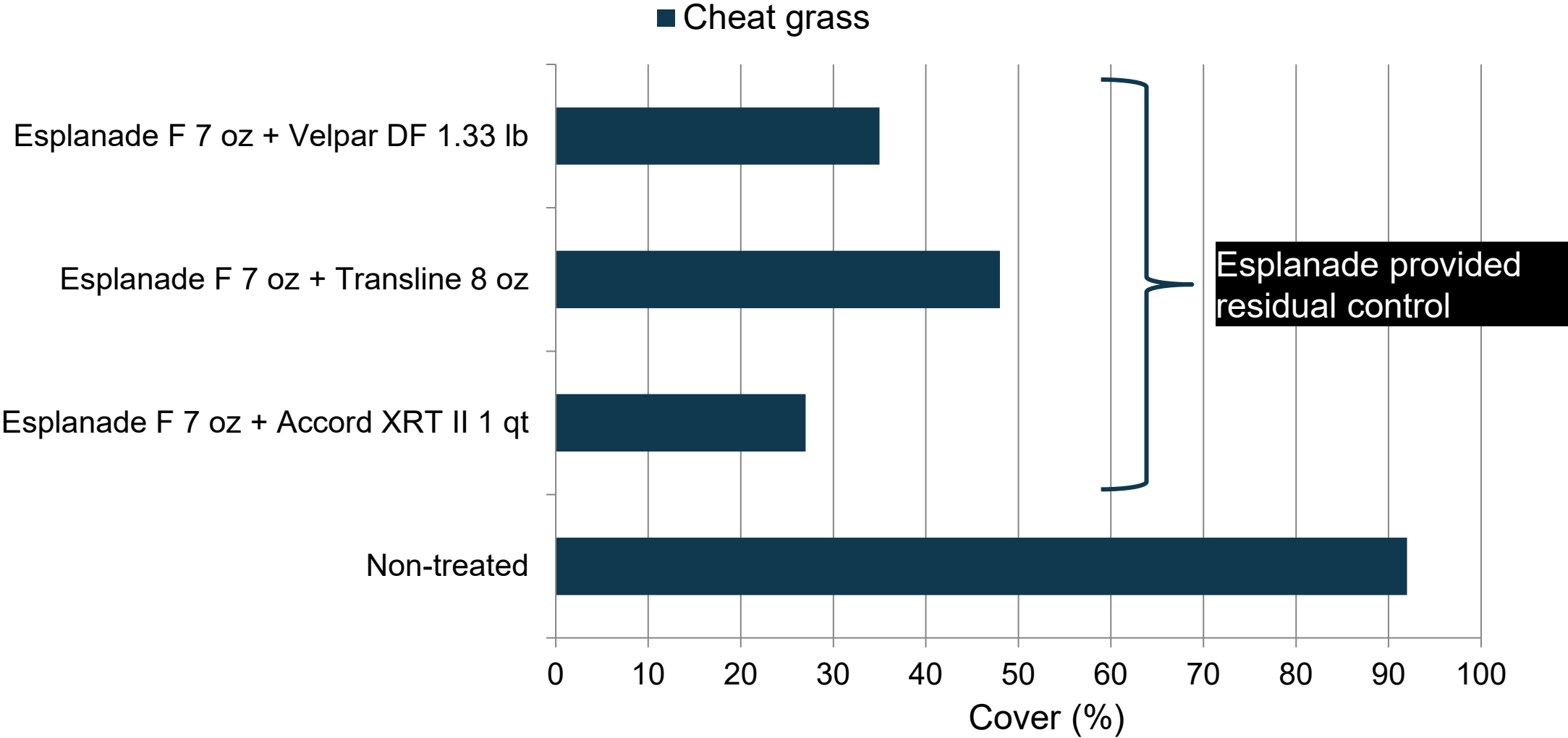
Planted: 2017 April  
Applied: 2017 April (day of planting)

### Vegetation – First year after treatment



Planted: 2017 April  
Applied: 2017 April (day of planting)

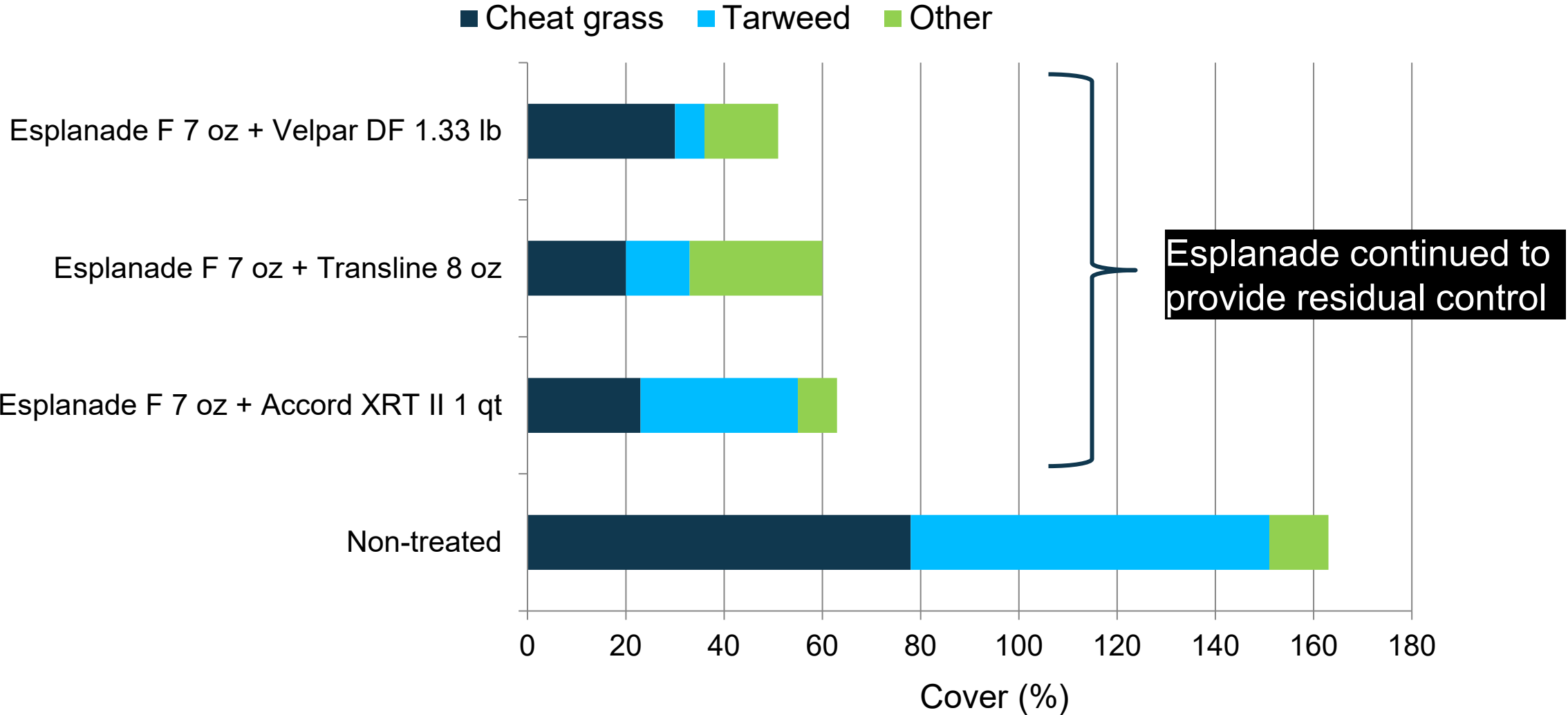
### Vegetation – Second year after treatment





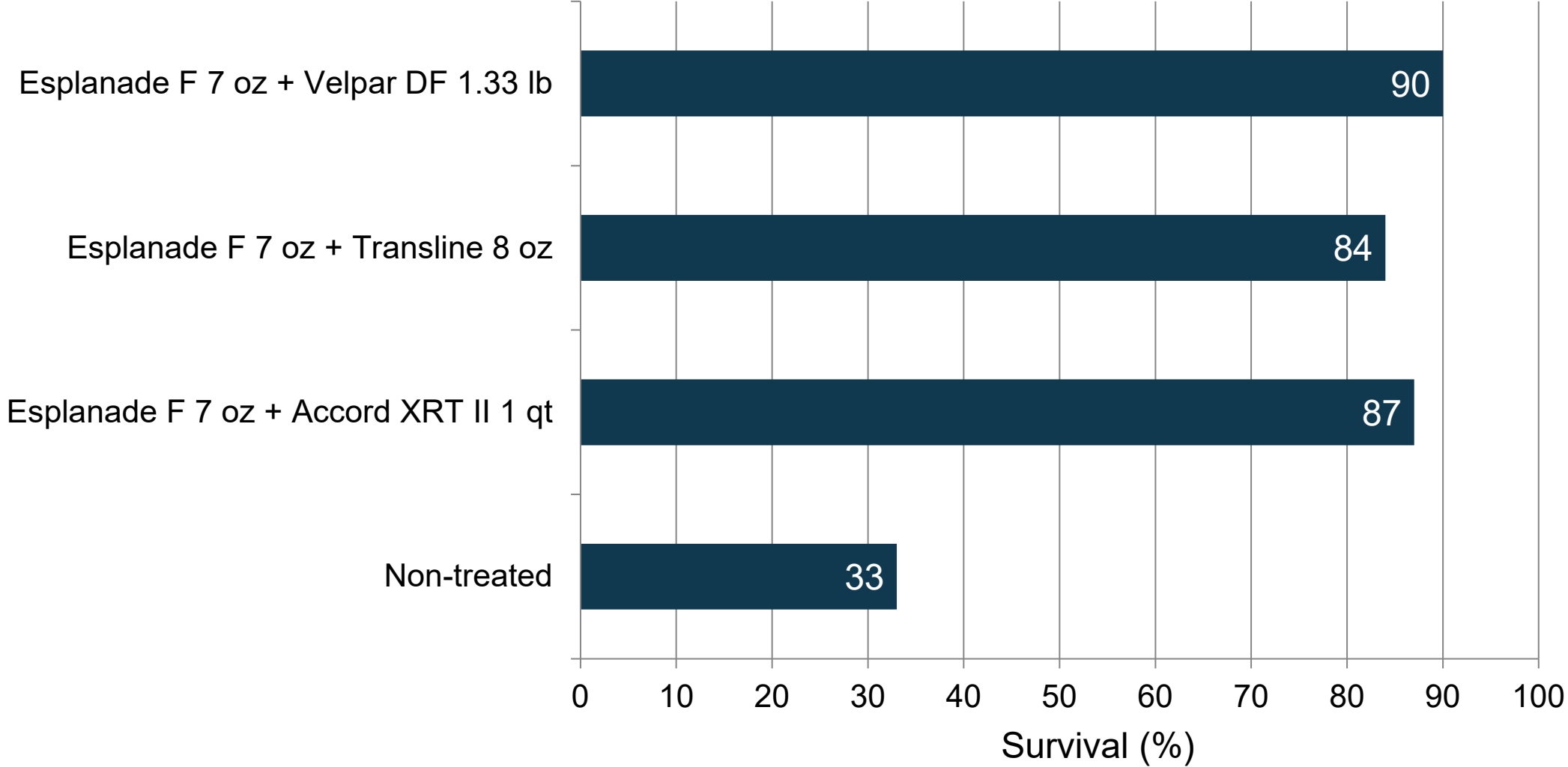
Planted: 2017 April  
Applied: 2017 April (day of planting)

### Vegetation – Third year after treatment



**Planted:** 2017 April  
**Applied:** 2017 April (day of planting)

### Ponderosa pine survival 3<sup>rd</sup> year after treatment

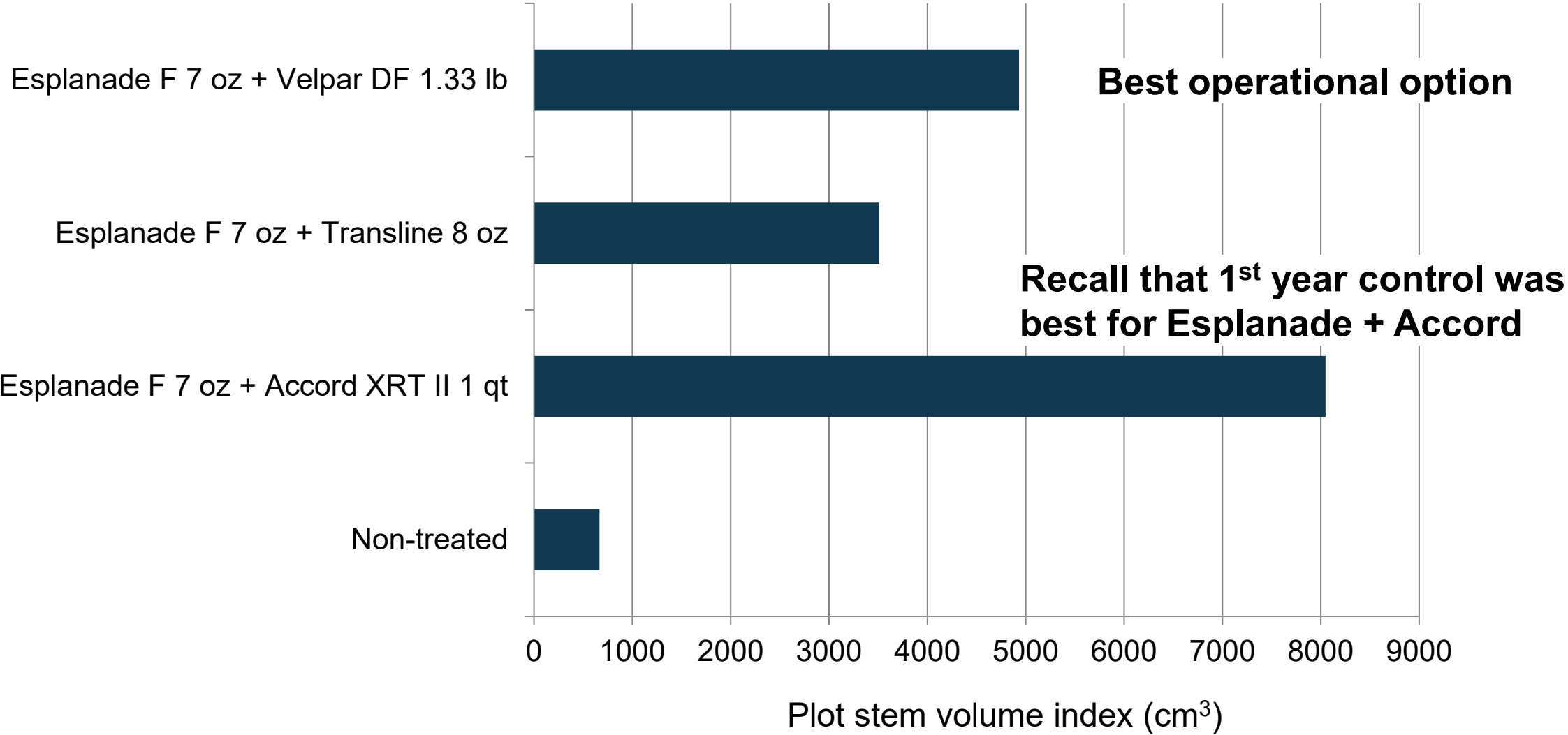


Trees bagged before Esplanade + Accord treatment



Planted: 2017 April  
Applied: 2017 April (day of planting)

### Ponderosa pine plot stem volume index 3<sup>rd</sup> year after treatment



Trees bagged before Esplanade + Accord treatment

# Site Preparation Western Sierra

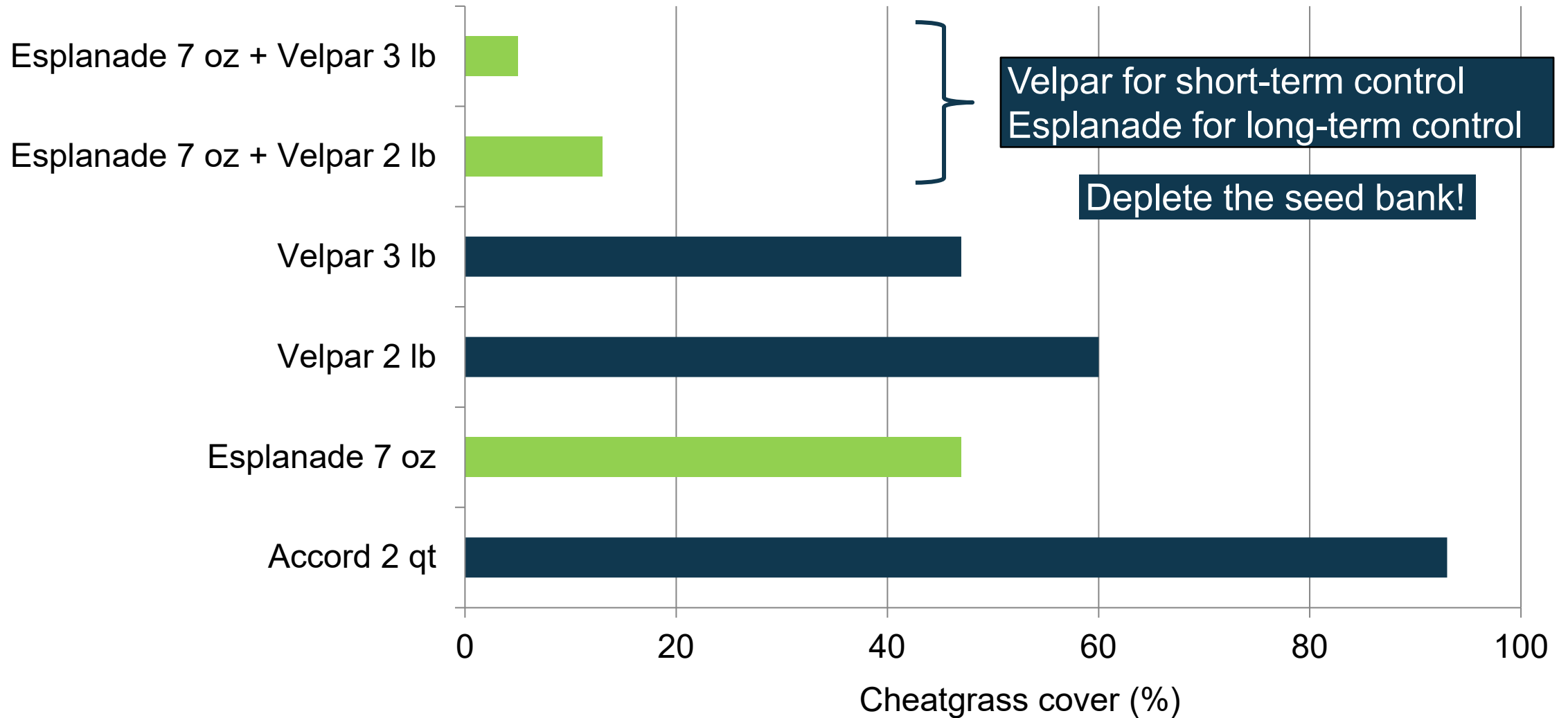
## Ponderosa Pine





Applied: 2016 October  
Planted: 2017 April  
Assessed: 2017 July

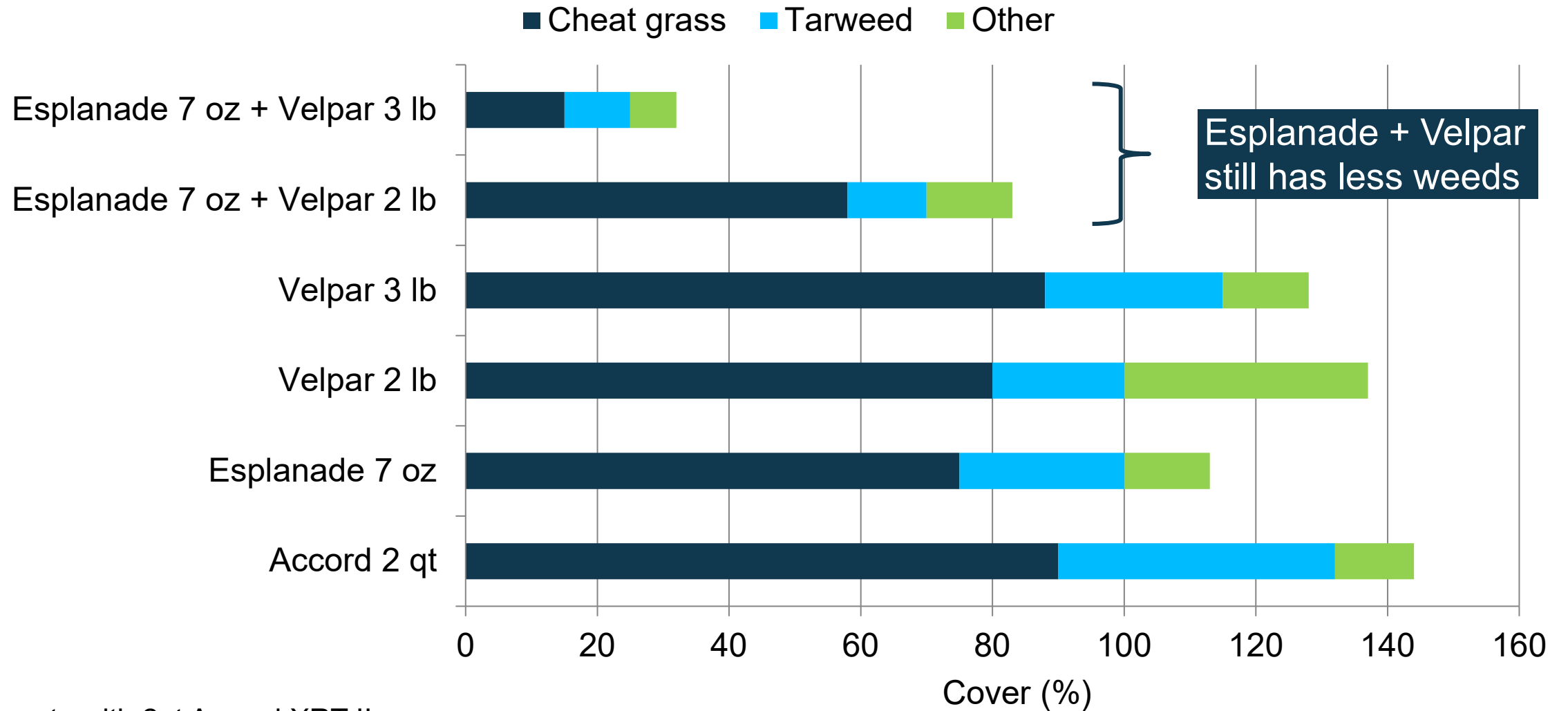
## Vegetation - First year after treatment



All treatments with 2qt Accord XRT II

Applied: 2016 October  
Planted: 2017 April  
Assessed: 2019 September

## Vegetation - Third year after treatment




All treatments with 2qt Accord XRT II





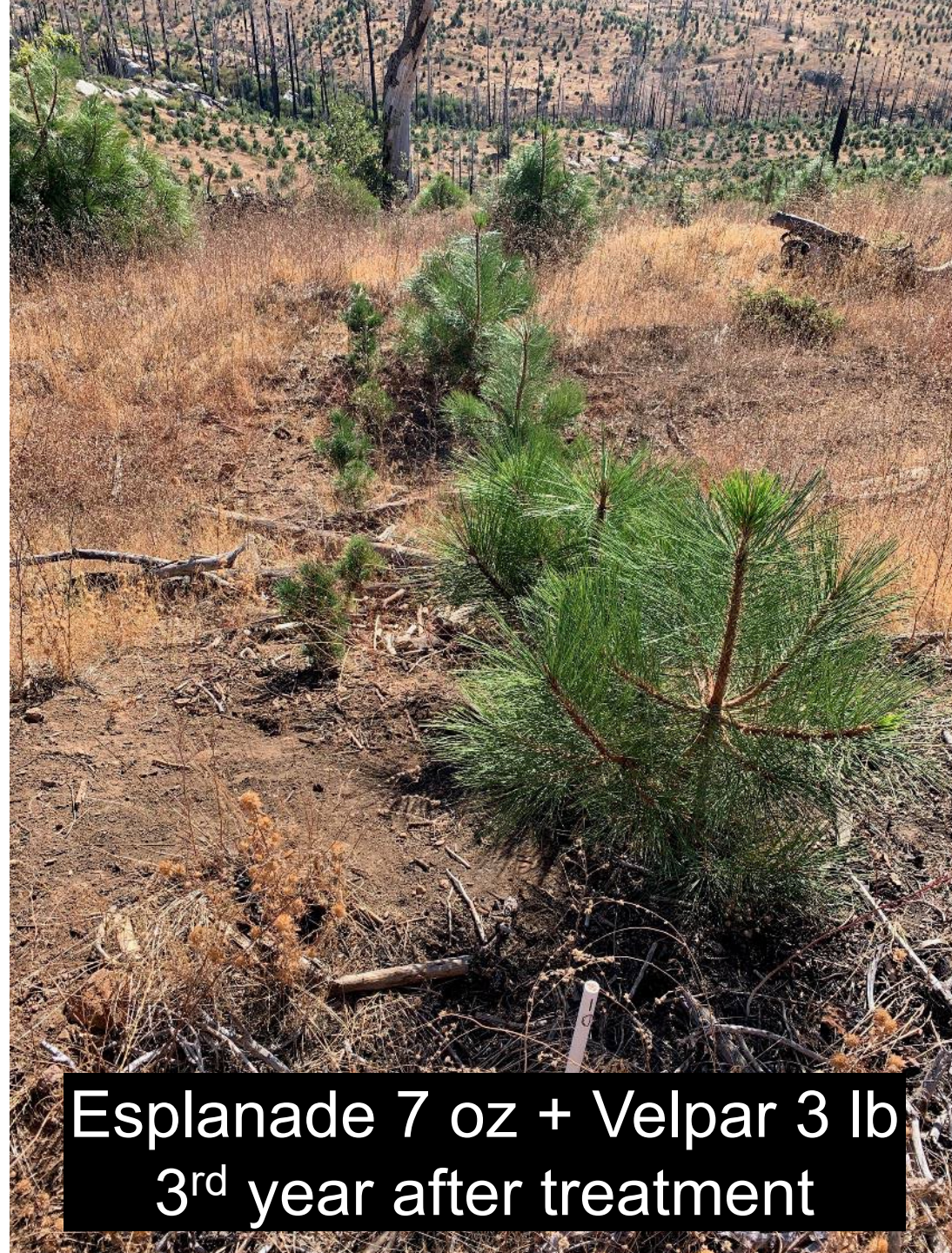
**Esplanade 7 oz + Velpar 3 lb  
1<sup>st</sup> year after treatment**





Esplanade 7 oz + Velpar 3 lb  
2<sup>nd</sup> year after treatment

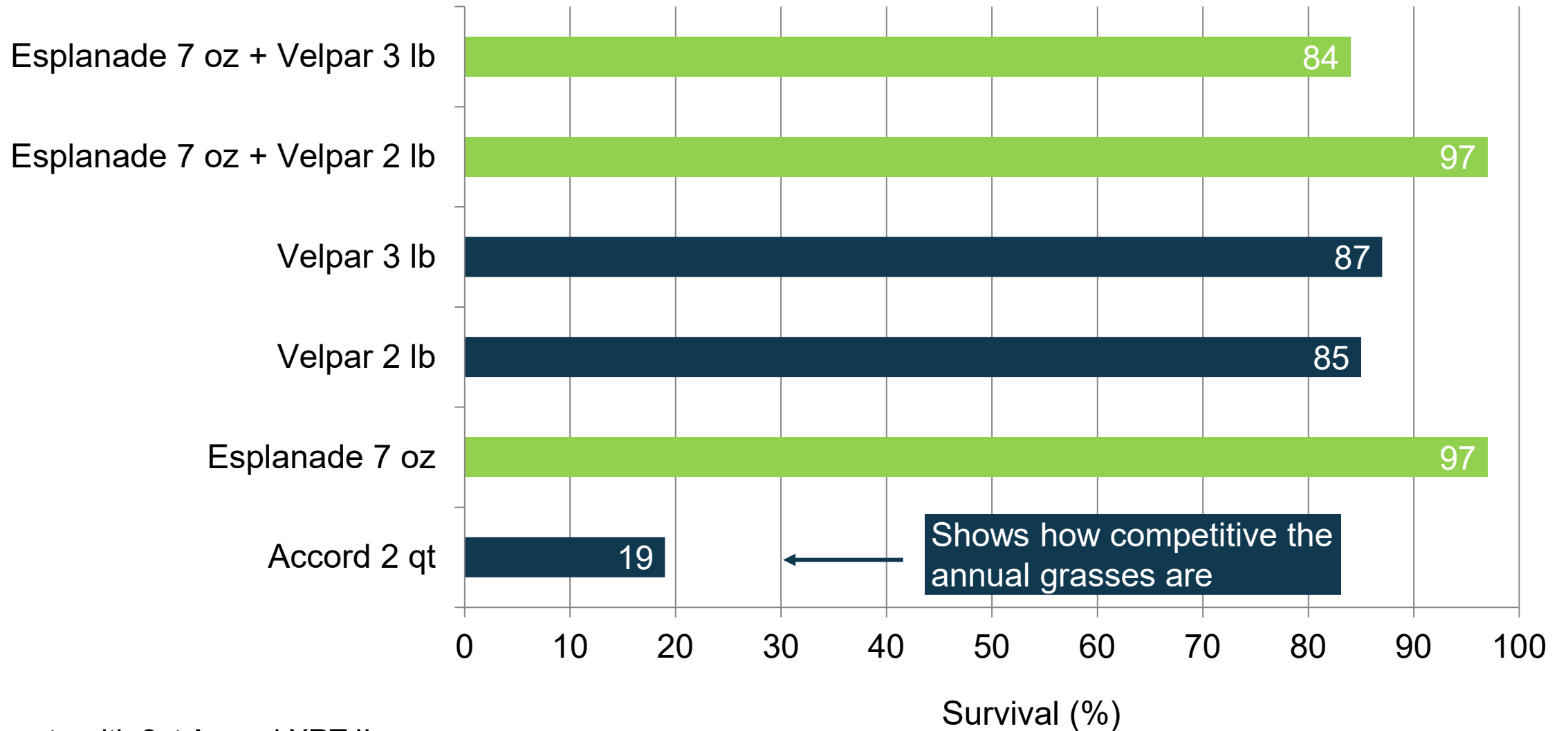




Esplanade 7 oz + Velpar 3 lb  
3<sup>rd</sup> year after treatment

Applied: 2016 October  
Planted: 2017 April  
Assessed: 2019 September

## Ponderosa Pine - Survival 3<sup>rd</sup> growing season

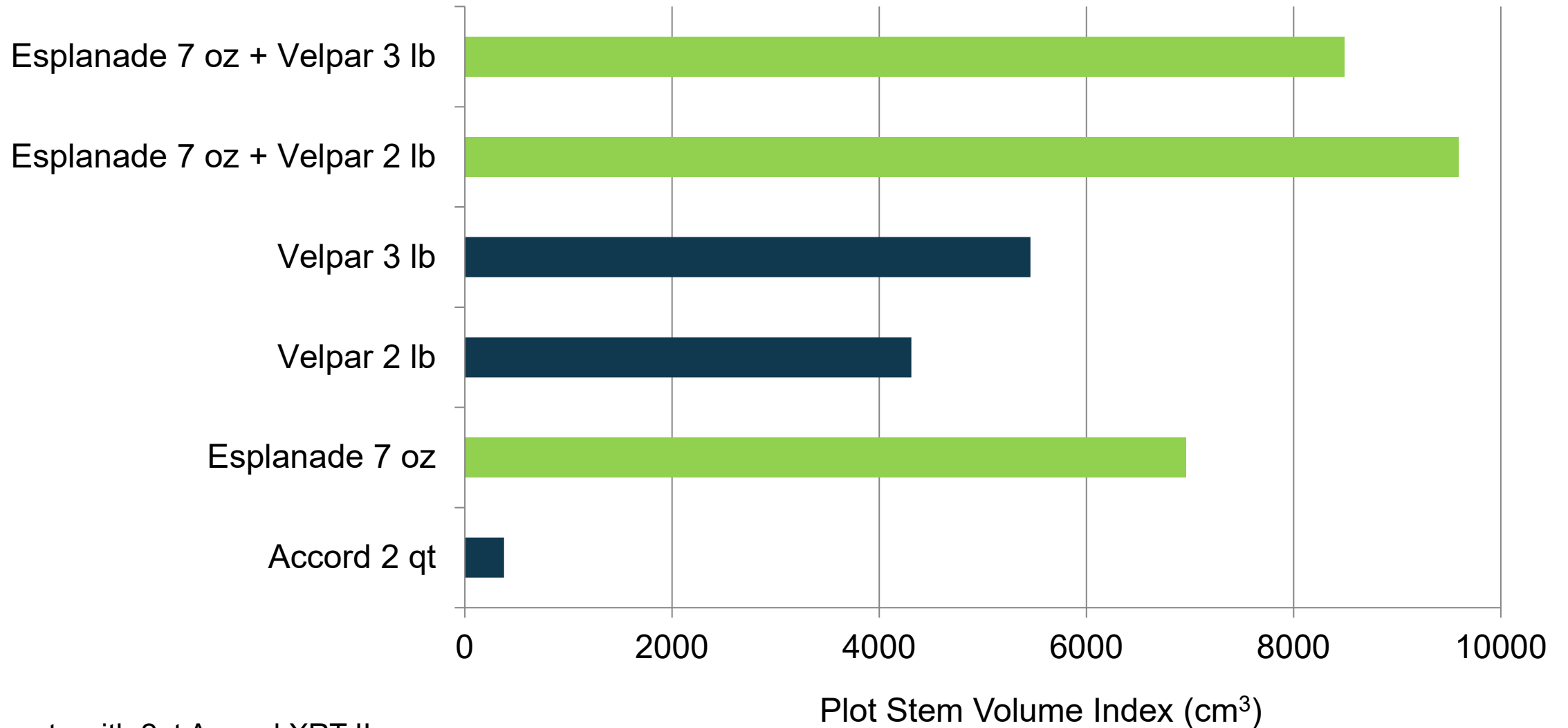


All treatments with 2qt Accord XRT II



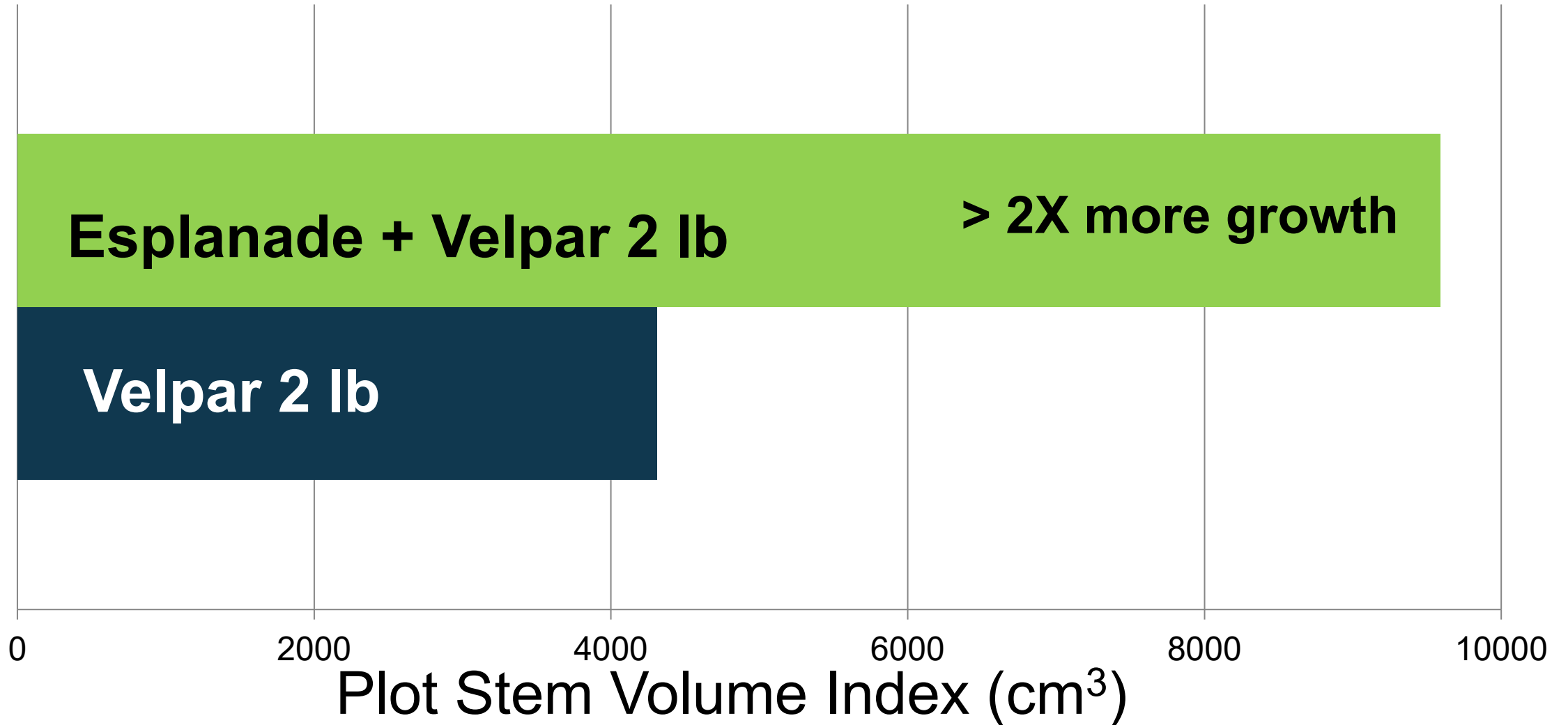
**Applied:** 2016 October  
**Planted:** 2017 April  
**Assessed:** 2019 September

## Ponderosa Pine – Plot Stem Volume Index 3<sup>rd</sup> growing season



All treatments with 2qt Accord XRT II

**Ponderosa Pine – Plot Stem Volume Index**  
**3<sup>rd</sup> growing season**  
**Isolating the impact of Esplanade**





# Best treatments for spring herbaceous release and fall site prep in the Western Sierra

## Spring herbaceous release

- // Directed: 7 oz Esplanade + 2 qt Accord (Year 3 plot stem volume 8049)
- // 7 oz Esplanade + 2 lb Velpar (Year 3 plot stem volume 4933)

## Fall site prep

- // 7 oz Esplanade + 2 lb Velpar (Year 3 plot stem volume 9590)



# New Option for Velpar DF fall site prep in the Western Sierras

Because Esplanade provides long term pre-emergence control the focus for Velpar becomes

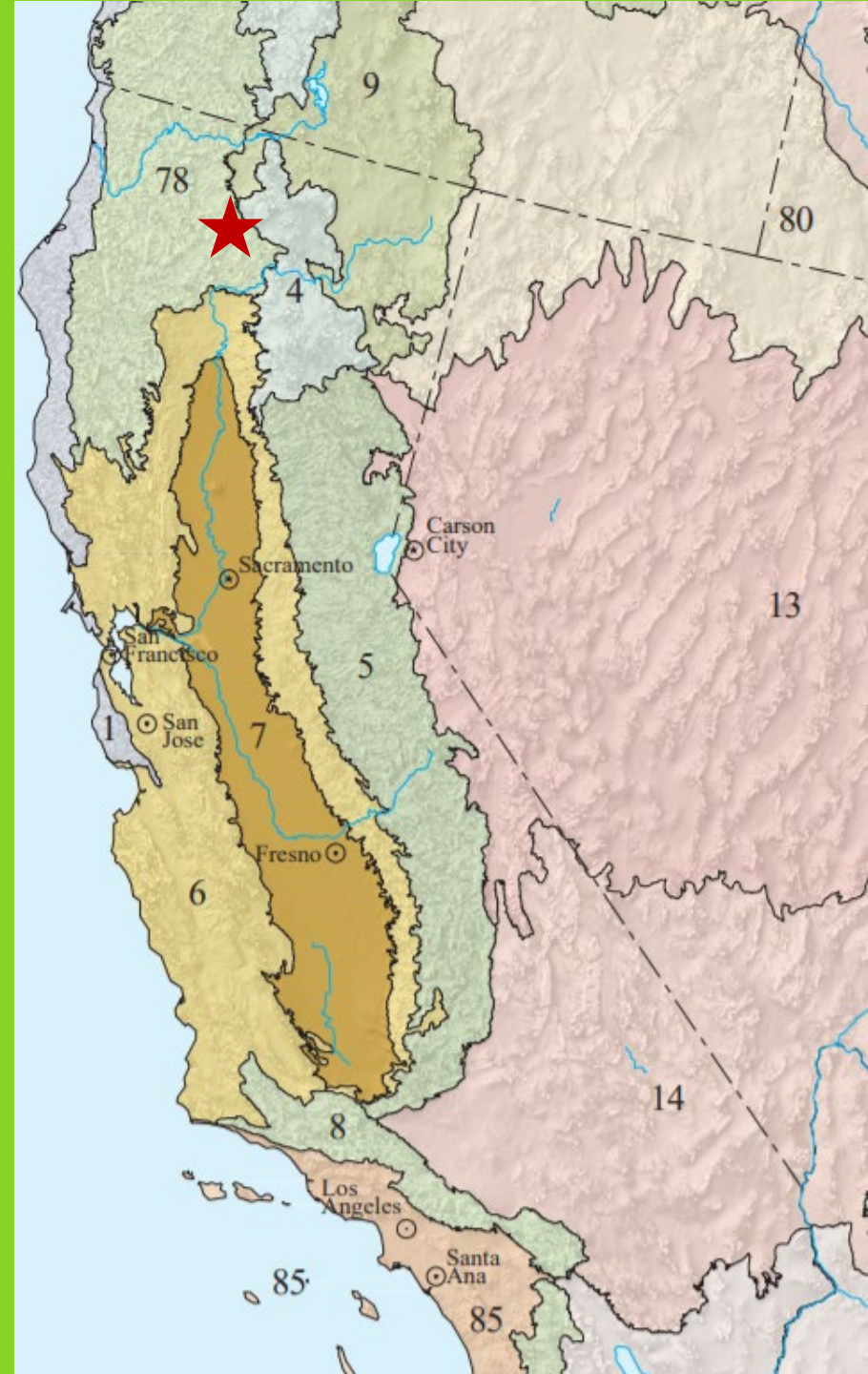
- // Short term pre- and post-emergence control
- // Lower rates and fall application for the most efficient vegetation control




# California High North Coast Range example of fall site prep

# Site Preparation California High North Coast Range

Incense Cedar



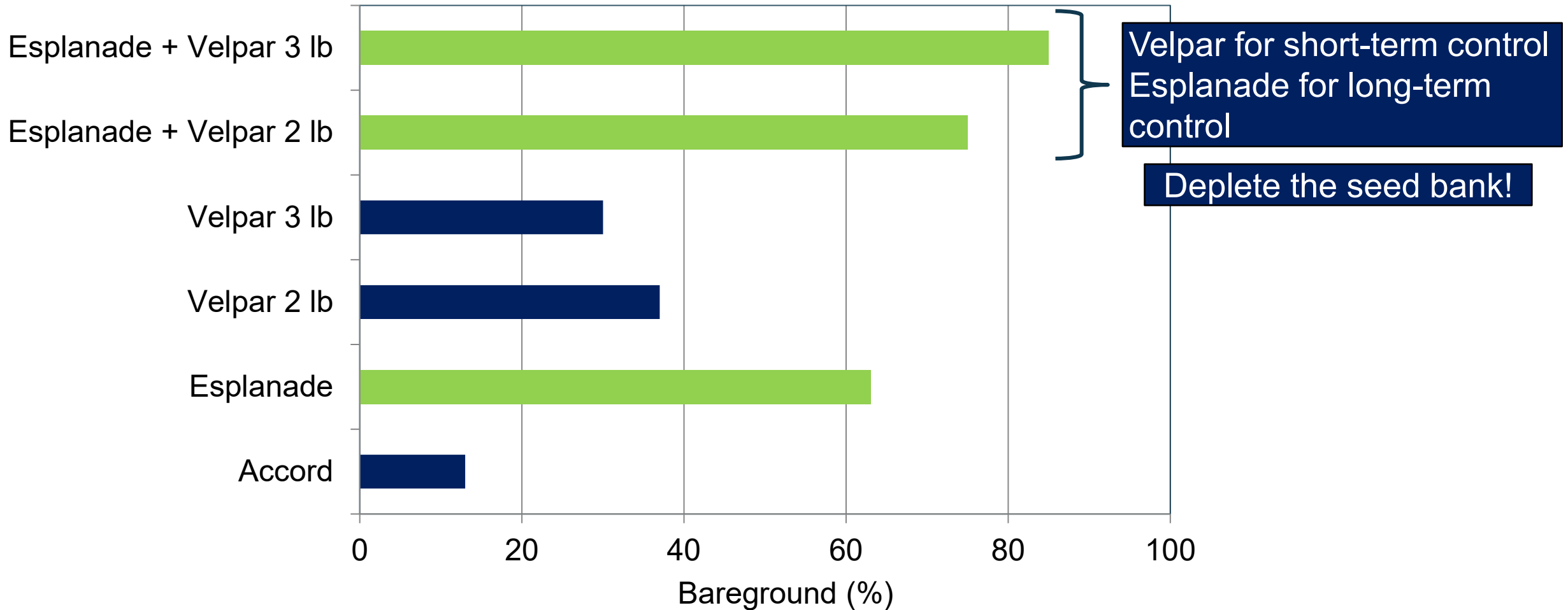




Cheat grass (*Bromus secalinus*) and rattail fescue (*Vulpia myuros*)  
infested site

**Applied: 2016 October**  
**Planted: 2017 April**  
**Assessed: 2017 August**

**Bareground - First year after treatment**

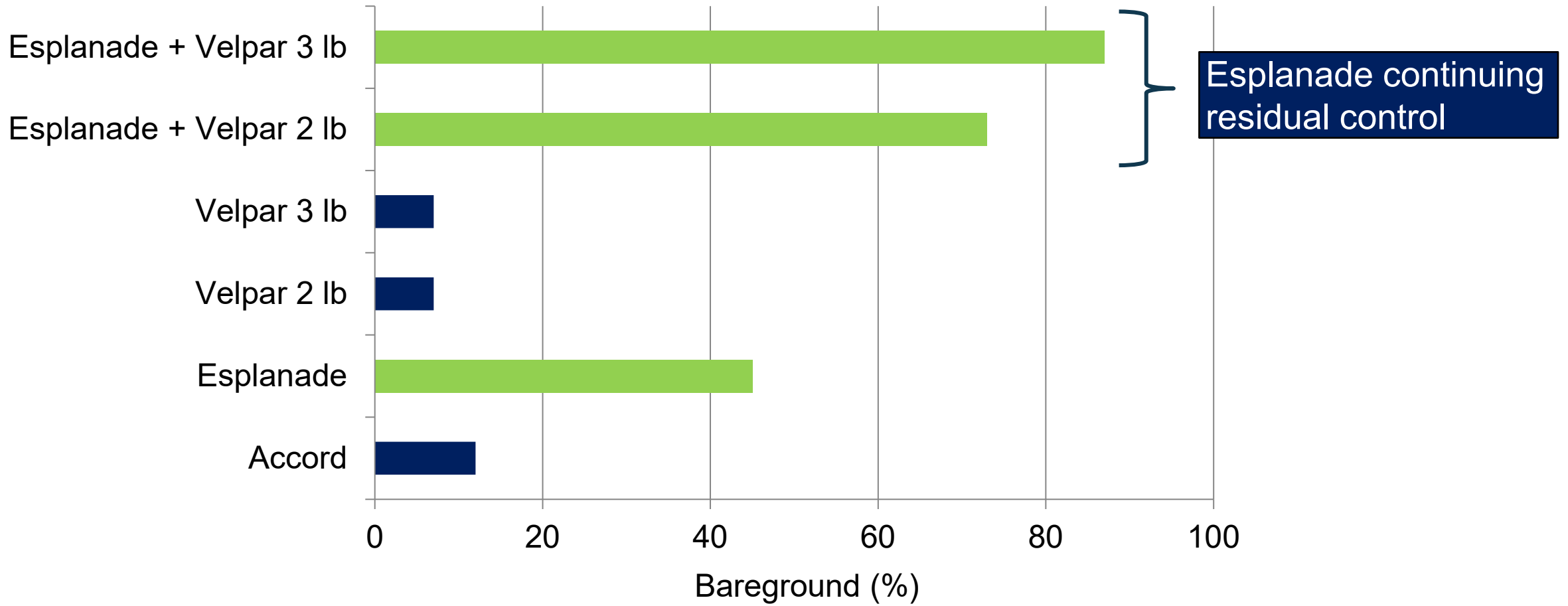


All treatments with 2qt Accord XRT II



**Applied: 2016 October**  
**Planted: 2017 April**  
**Assessed: 2018 August**

**Bareground - Second year after treatment**



All treatments with 2qt Accord XRT II



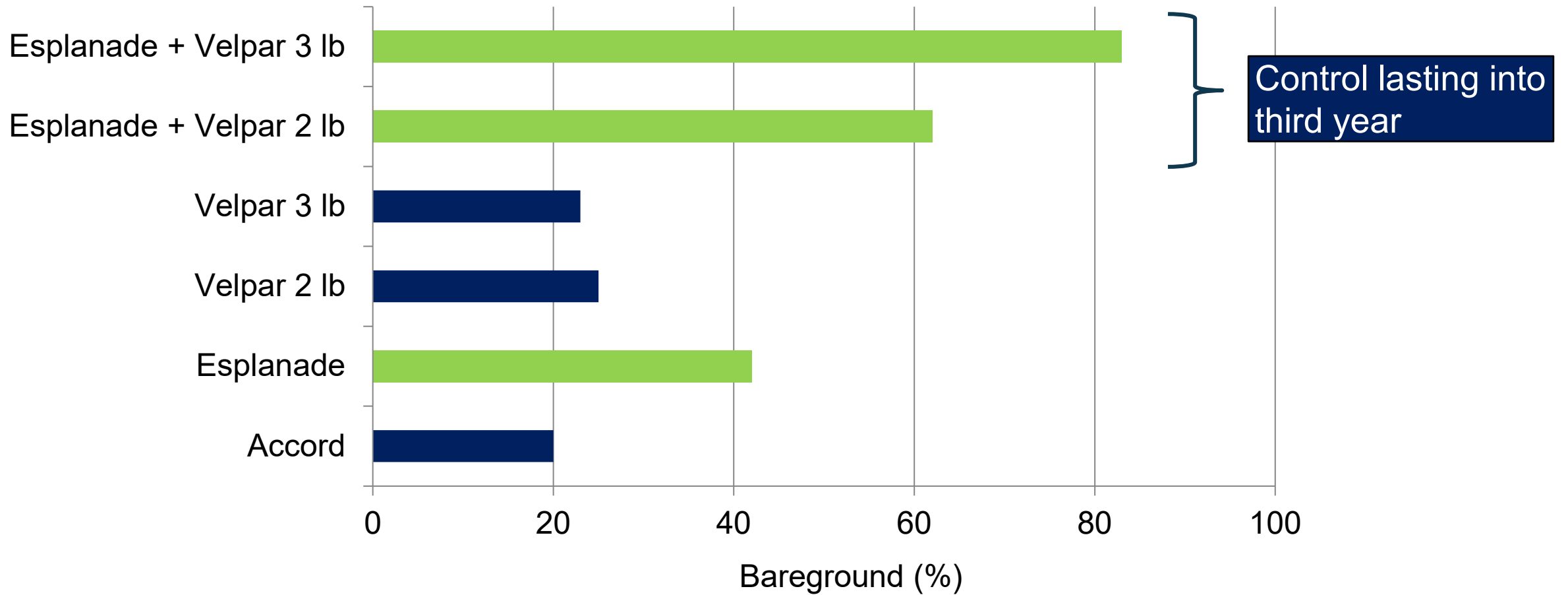


Esplanade + Velpar + Accord



**Applied: 2016 October**  
**Planted: 2017 April**  
**Assessed: 2019 August**

**Bareground - Third year after treatment**

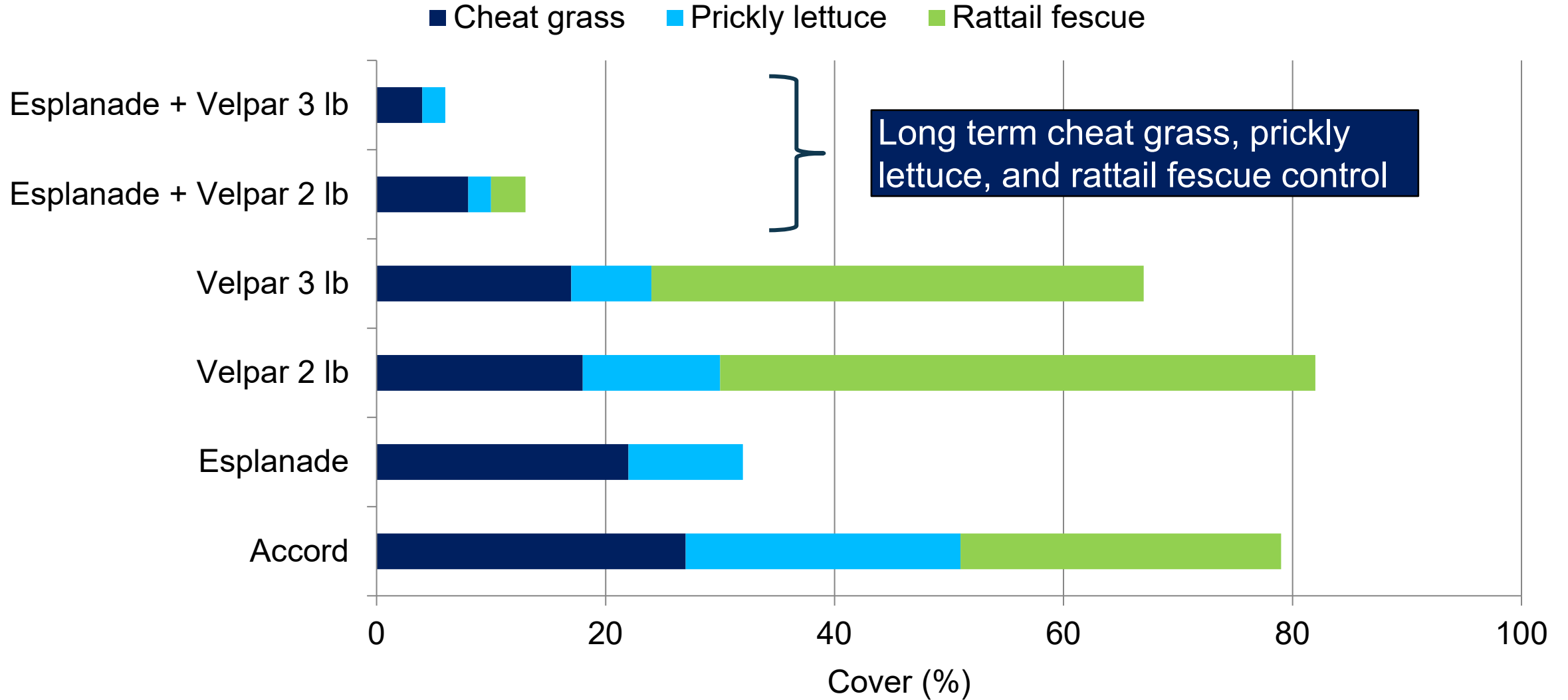


All treatments with 2qt Accord XRT II



Applied: 2016 October  
Planted: 2017 April  
Assessed: 2019 August

## Vegetation - Third year after treatment



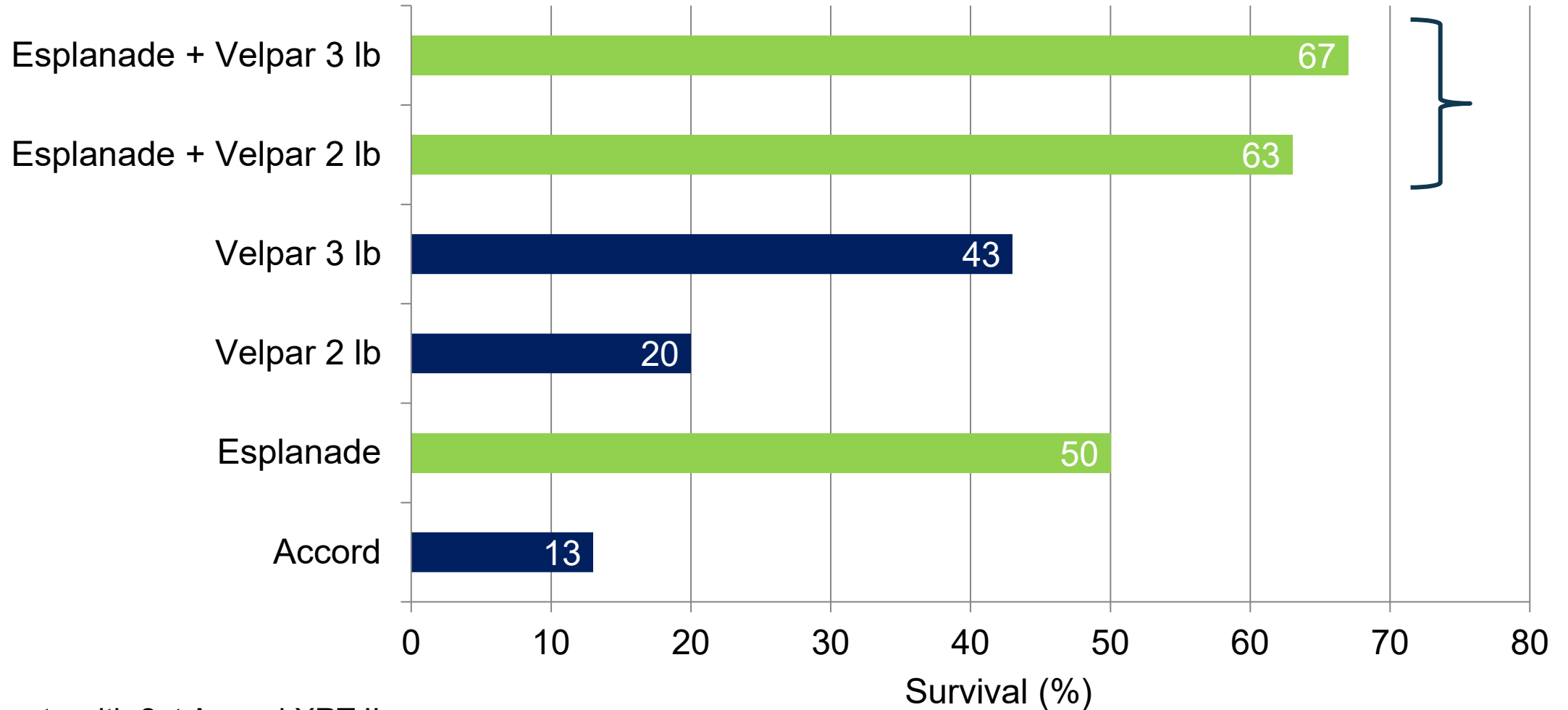
All treatments with 2qt Accord XRT II

Applied: 2016 October  
Planted: 2017 April  
Assessed: 2019 August

### Incense cedar survival 3<sup>rd</sup> growing season



Overall poor survival from poor planting stock  
Survival > 60% for Esplanade + Velpar



All treatments with 2qt Accord XRT II



# Northern Rockies example of fall site prep

# Site Preparation Northern Rockies

Douglas-fir

Western larch



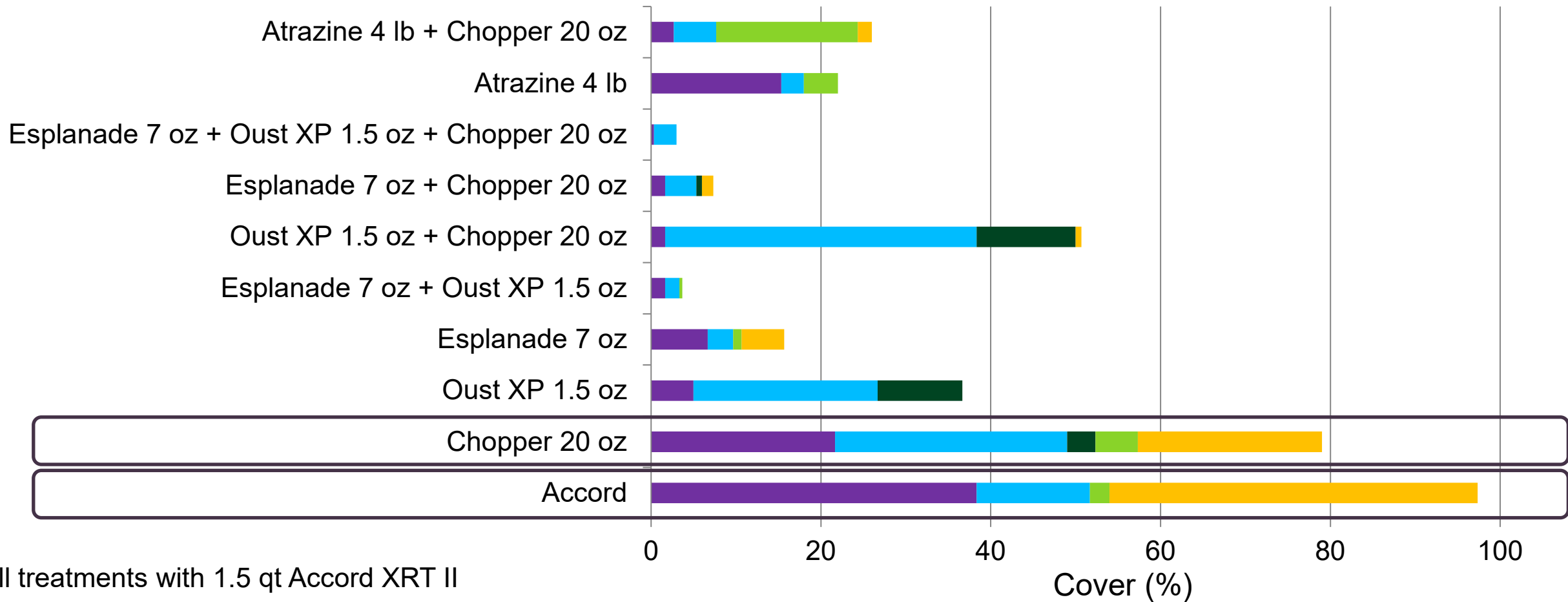


# Vegetation - First year after treatment

Applied: 2017 October  
 Planted: 2018 May

Good mix of species  
 Minimal residual control from straight Chopper

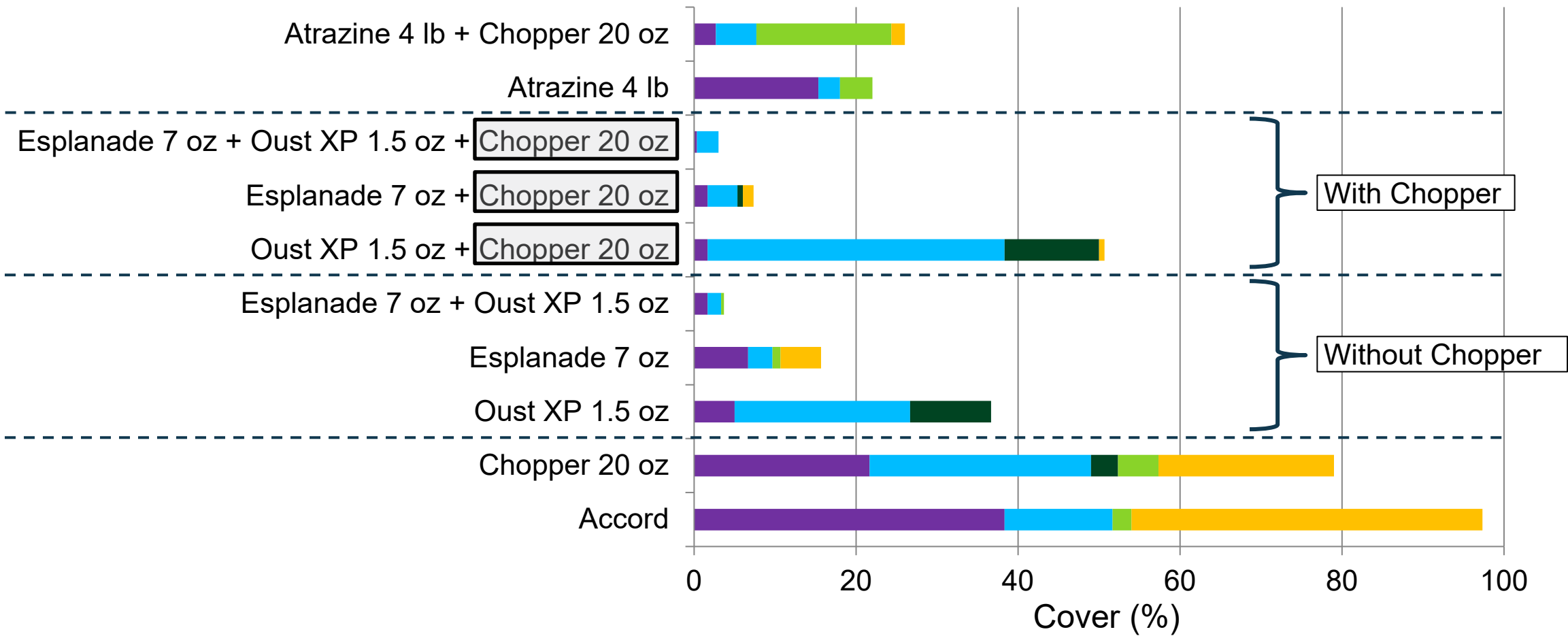
■ Perennial grass ■ Prickly lettuce ■ Marestail ■ Mullein ■ Willow herb



All treatments with 1.5 qt Accord XRT II

Minimal residual control benefit from adding Chopper to Oust or Esplanade

■ Perennial grass   
 ■ Prickly lettuce   
 ■ Marestalk   
 ■ Mullein   
 ■ Willow herb

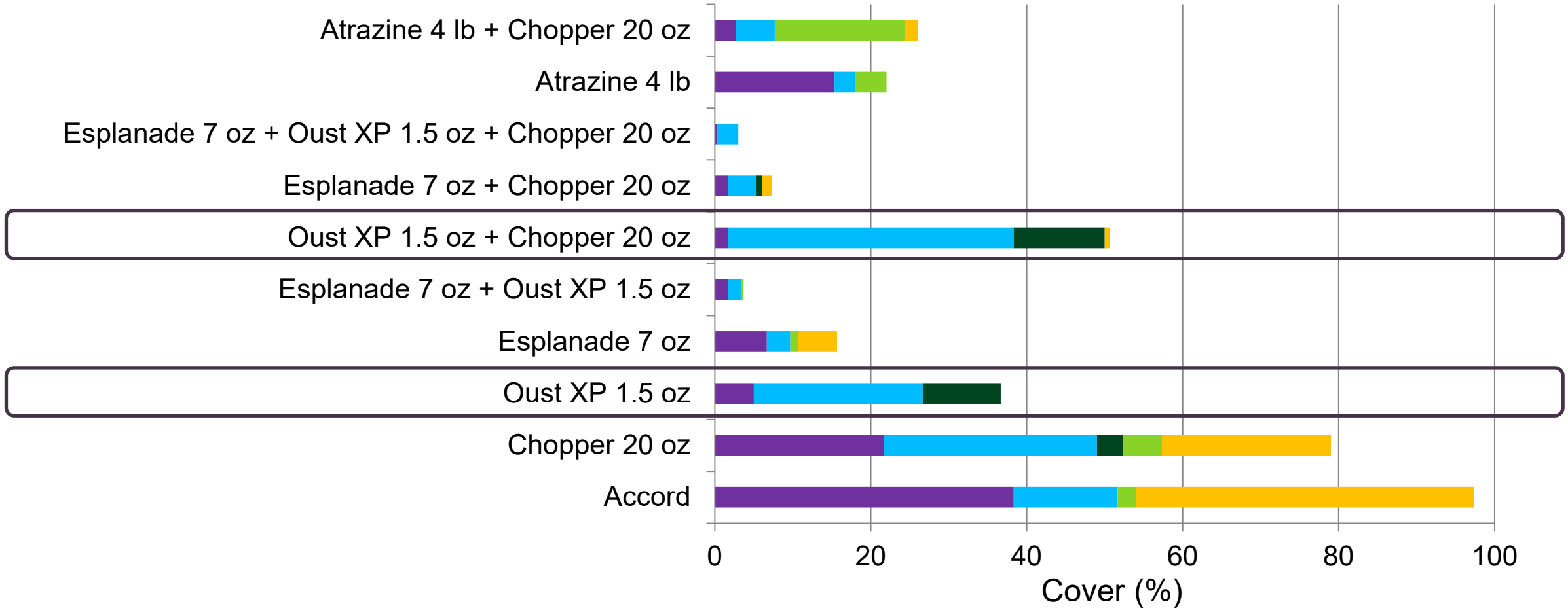


All treatments with 1.5 qt Accord XRT II



Oust released prickly lettuce and marestail

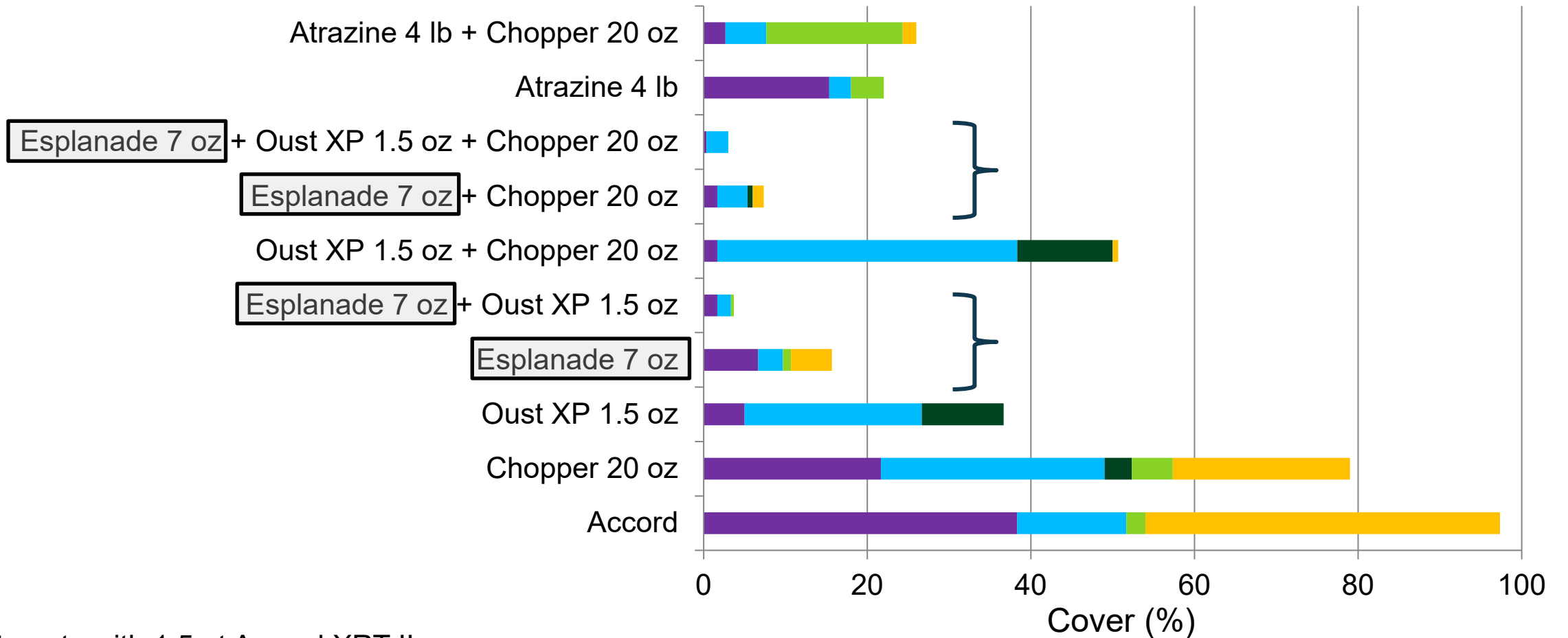
■ Perennial grass   
 ■ Prickly lettuce   
 ■ Marestail   
 ■ Mullein   
 ■ Willow herb



All treatments with 1.5 qt Accord XRT II

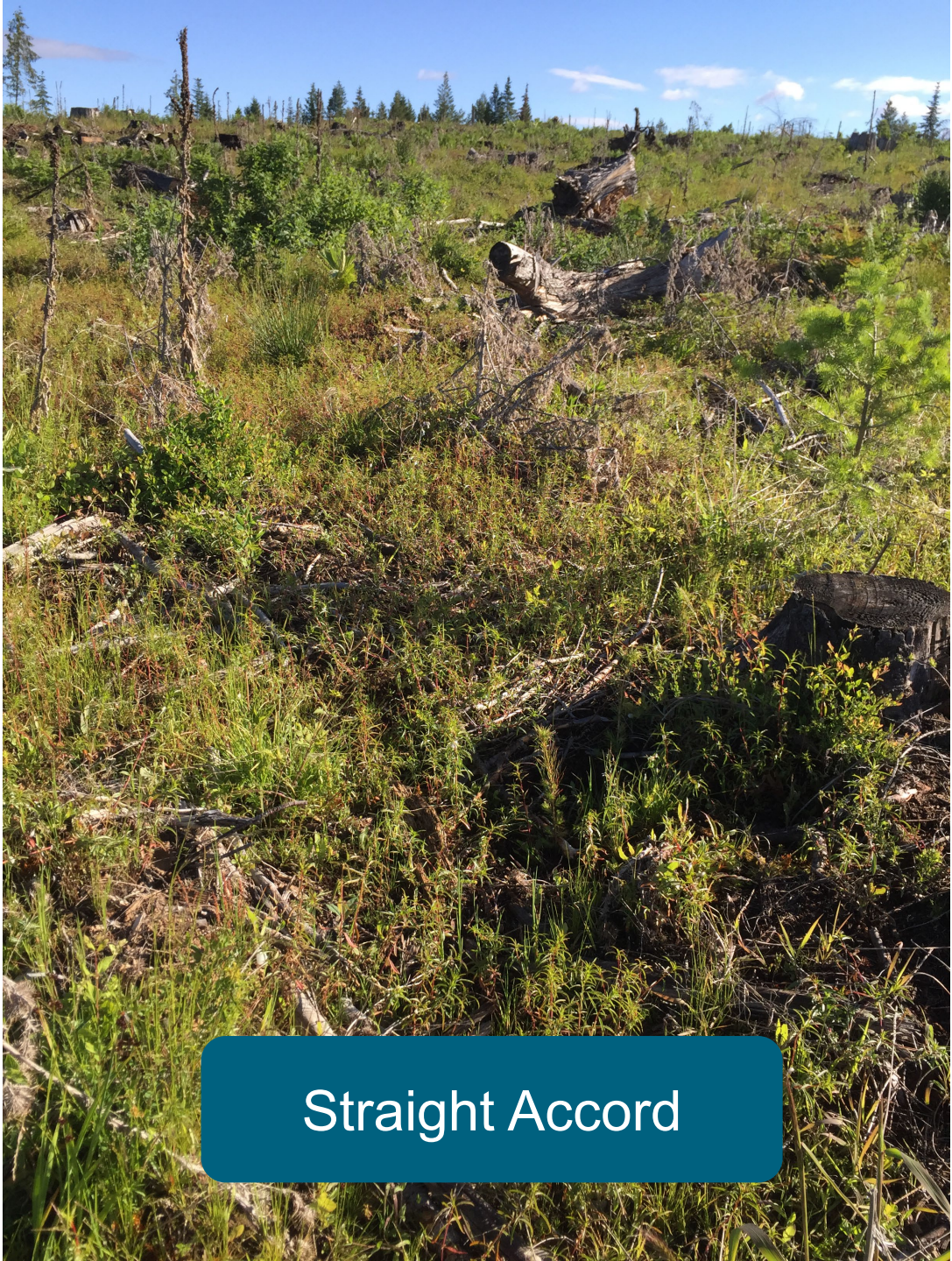
Best residual control from all treatments with Esplanade

■ Perennial grass ■ Prickly lettuce ■ Marestalk ■ Mullein ■ Willow herb



All treatments with 1.5 qt Accord XRT II





Straight Accord





Oust +  
Accord



Esplanade +  
Accord





Oust +  
Chopper + Accord



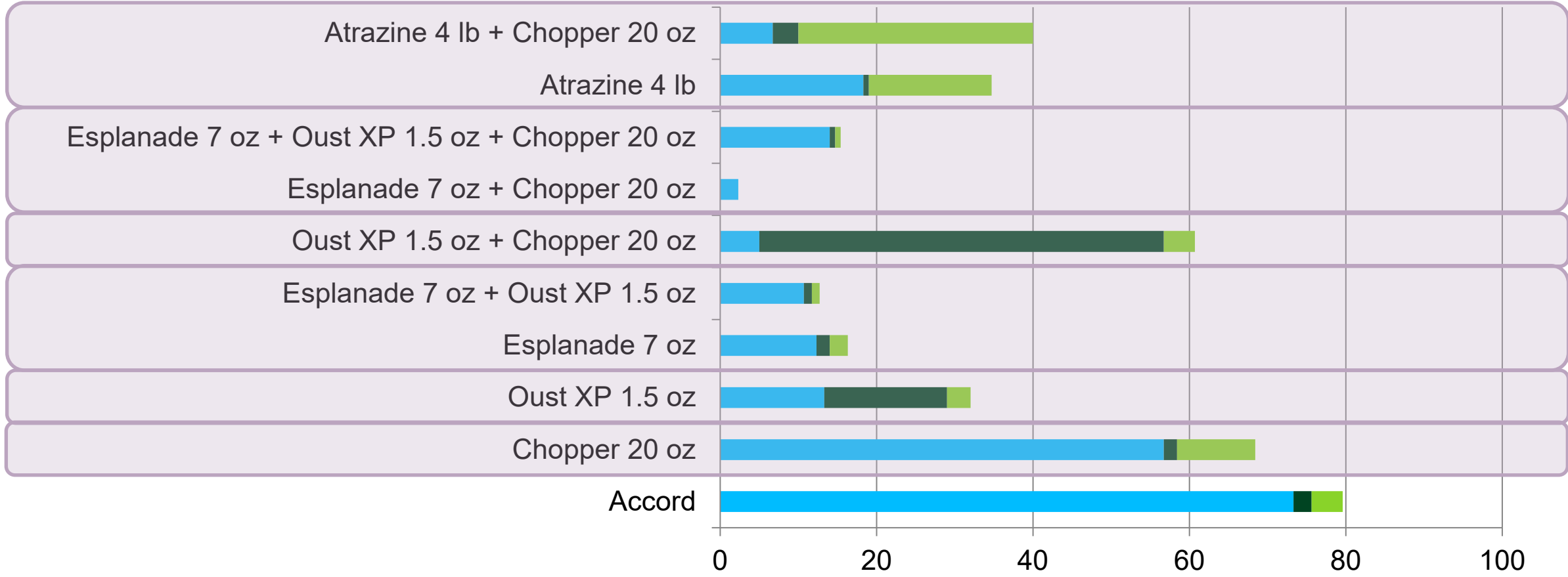
Esplanade +  
Chopper + Accord



# Vegetation - Second year after treatment

Straight Chopper did not provide residual control of perennial grass  
 Atrazine released common mullein  
 Oust released prickly lettuce  
 Best control from all treatments with Esplanade  
 Esplanade + Chopper = Best residual control

■ Perennial grass ■ Prickly lettuce ■ Mullein



All treatments with 1.5 qt Accord XRT II

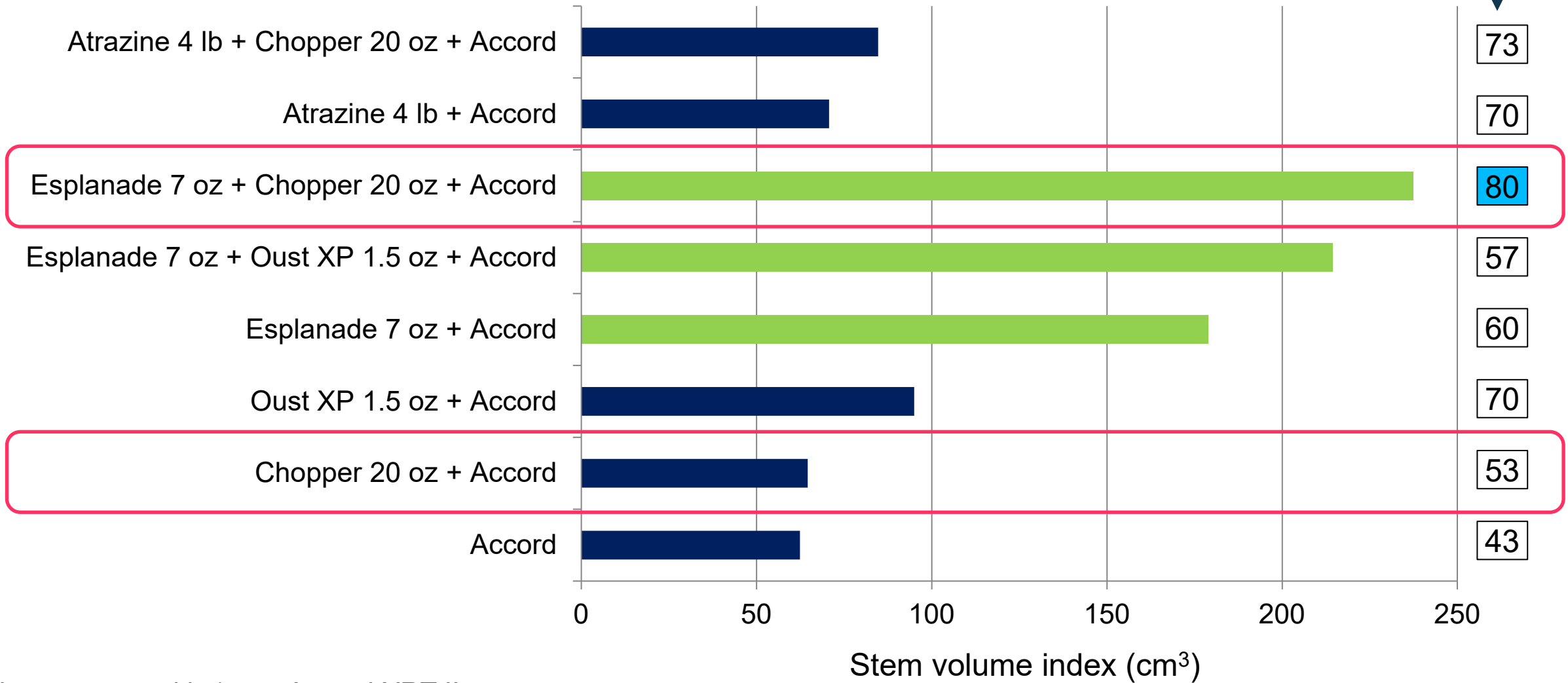
Cover (%)



# Douglas-fir stem volume 3<sup>rd</sup> growing season

Esplanade + Chopper + Accord = Best  
vegetation control and best tree growth  
3.7 X more growth than Chopper + Accord

Survival  
(%)

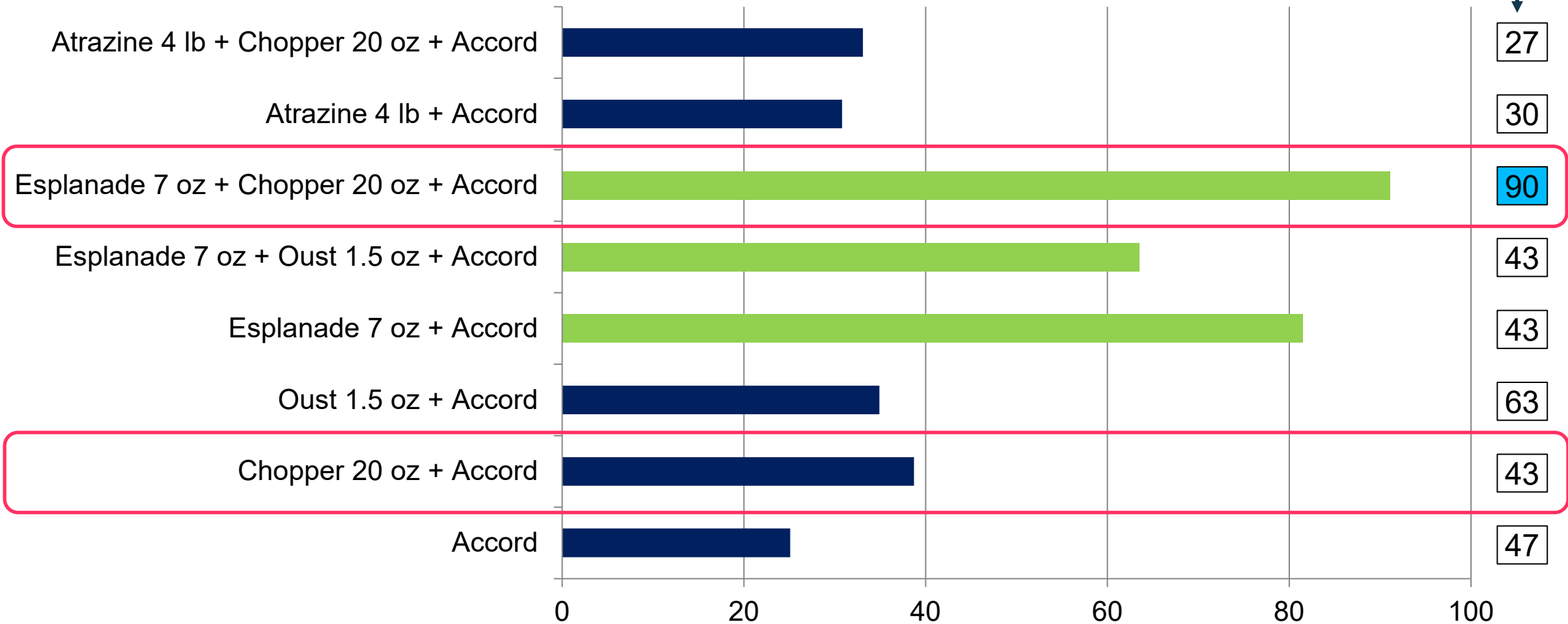


All treatments with 1.5 qt Accord XRT II

# Western larch stem volume 3<sup>rd</sup> growing season

Esplanade + Chopper = Best vegetation control and best tree growth  
2.4 X more growth than Chopper + Accord

Survival (%)



All treatments with 1.5 qt Accord XRT II

Stem volume index (cm<sup>3</sup>)



# Best treatments for fall site prep in the Northern Rockies

## Douglas-fir

- // 20 oz Chopper + 1.5 qt Accord (Year 3 stem volume 65)
- // 7 oz Esplanade F + 20 oz Chopper + 1.5 qt Accord (Year 3 stem volume 237)



## Western Larch

- // 20 oz Chopper + 1.5 qt Accord (Year 3 stem volume 39)
- // 7 oz Esplanade F + 20 oz Chopper + 1.5 qt Accord (Year 3 stem volume 91)



# New Option for one pass vegetation control in the Northern Rockies

Esplanade F adds the long-term residual control missed by other site prep herbicides



# Douglas-fir and grand fir in the Coast Range

## Site prep compared to herbaceous release

# Site Preparation and Herbaceous Release Coast Range

Douglas-fir  
Grand fir

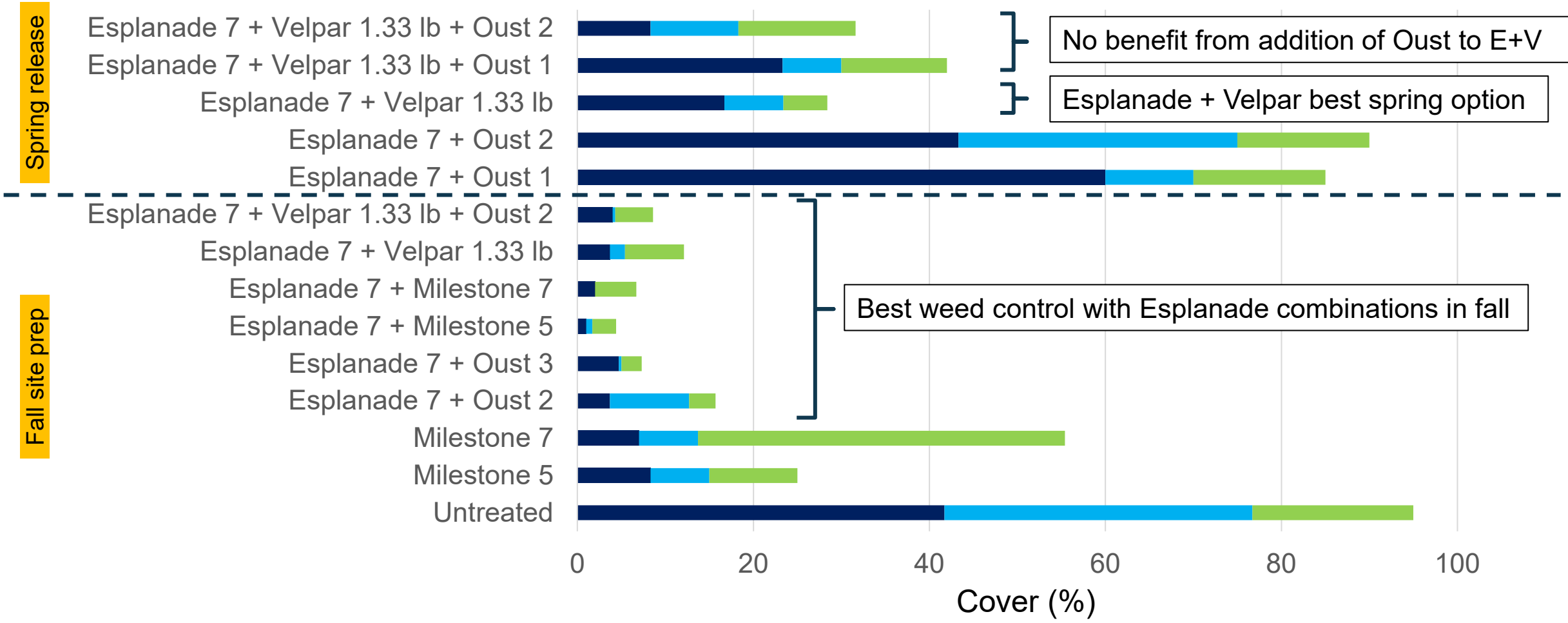




**Site prep: 2018 October**  
**Planted: 2019 February**  
**Release: 2019 March**

### Vegetation – First year after treatment

■ Senecio   
 ■ False dandelion   
 ■ Other

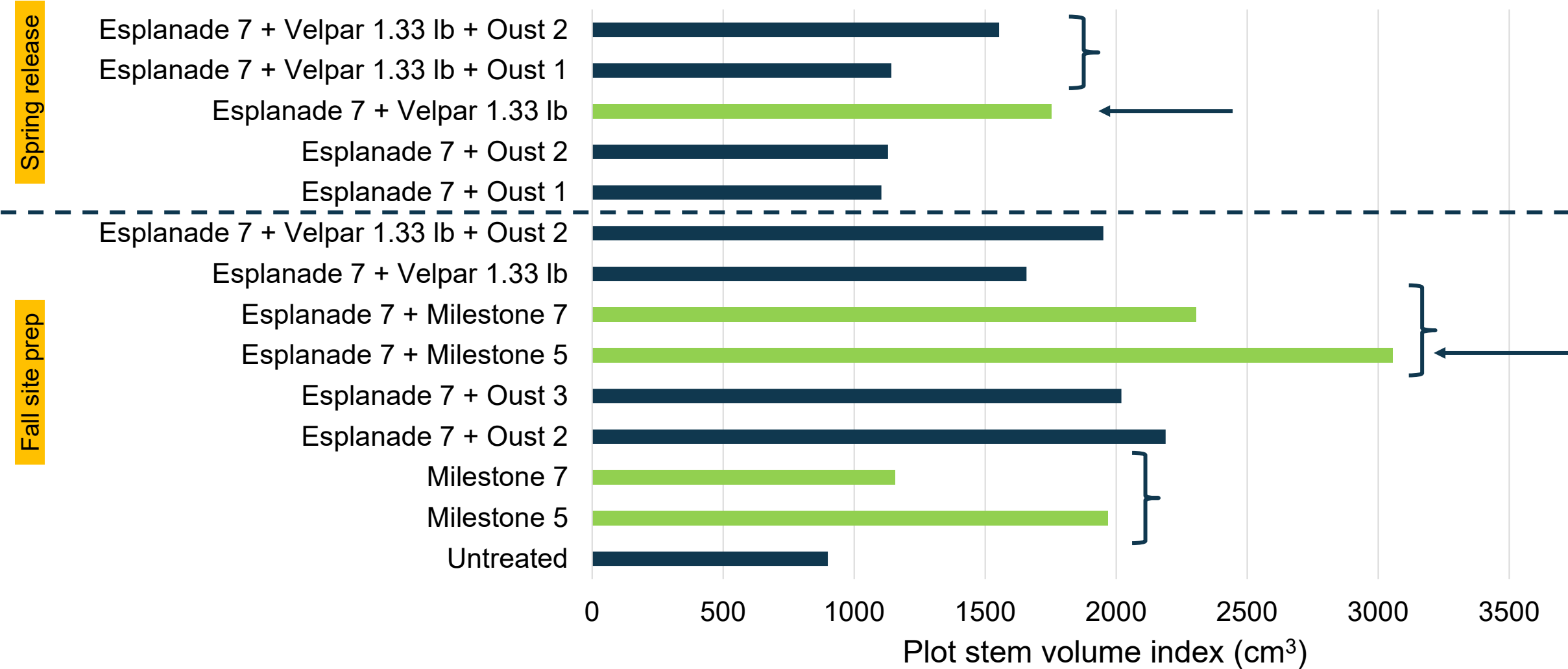


All fall site prep treatments included glyphosate + 1 oz Escort

# Douglas-fir plot stem volume index

## 2<sup>nd</sup> growing season

Esplanade + 5 oz Milestone the best fall treatment  
 Negative rate response to Milestone  
 Esplanade + Velpar the best spring treatment  
 No benefit from adding Oust to Esplanade+Velpar



All fall site prep treatments included glyphosate + 1 oz Escort



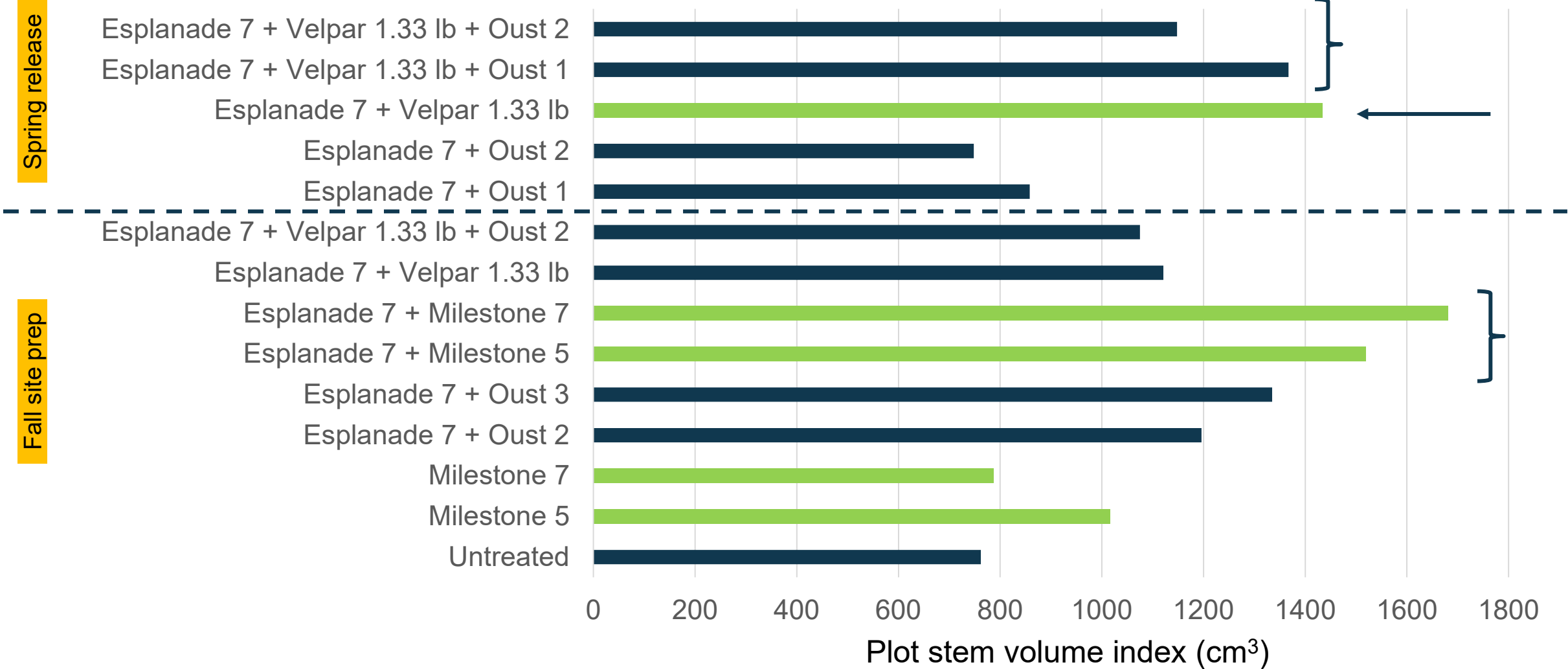
# Grand fir plot stem volume index

## 2<sup>nd</sup> growing season

Esplanade + Milestone the best fall treatment

Esplanade + Velpar the best spring treatment

No benefit from adding Oust to Esplanade+Velpar



All fall site prep treatments included glyphosate + 1 oz Escort + 0.5% MSO

# Best treatments for fall site prep in the Coast Range (Douglas-fir, Grand fir)

## Douglas-fir

- // Spring release: 7 oz Esplanade + 1.33 lb Velpar + 1 oz Escort + glyphosate  
(Year 3 plot stem volume 1753)
- // Fall site prep: 7 oz Esplanade F + 5 oz Milestone + 1 oz Escort + glyphosate  
(Year 3 plot stem volume 3055)

## Grand fir

- // Spring release: 7 oz Esplanade + 1.33 lb Velpar + 1 oz Escort + glyphosate  
(Year 3 plot stem volume 1435)
- // Fall site prep: 7 oz Esplanade F + 7 oz Milestone + 1 oz Escort + glyphosate  
(Year 3 plot stem volume 1681)



# **New Option for one pass fall site prep in the Coast Range (Douglas-fir and Grand fir)**

Esplanade F adds the long-term residual control missed  
by other site prep herbicides

# Herbaceous Release Coast Range

Douglas-fir

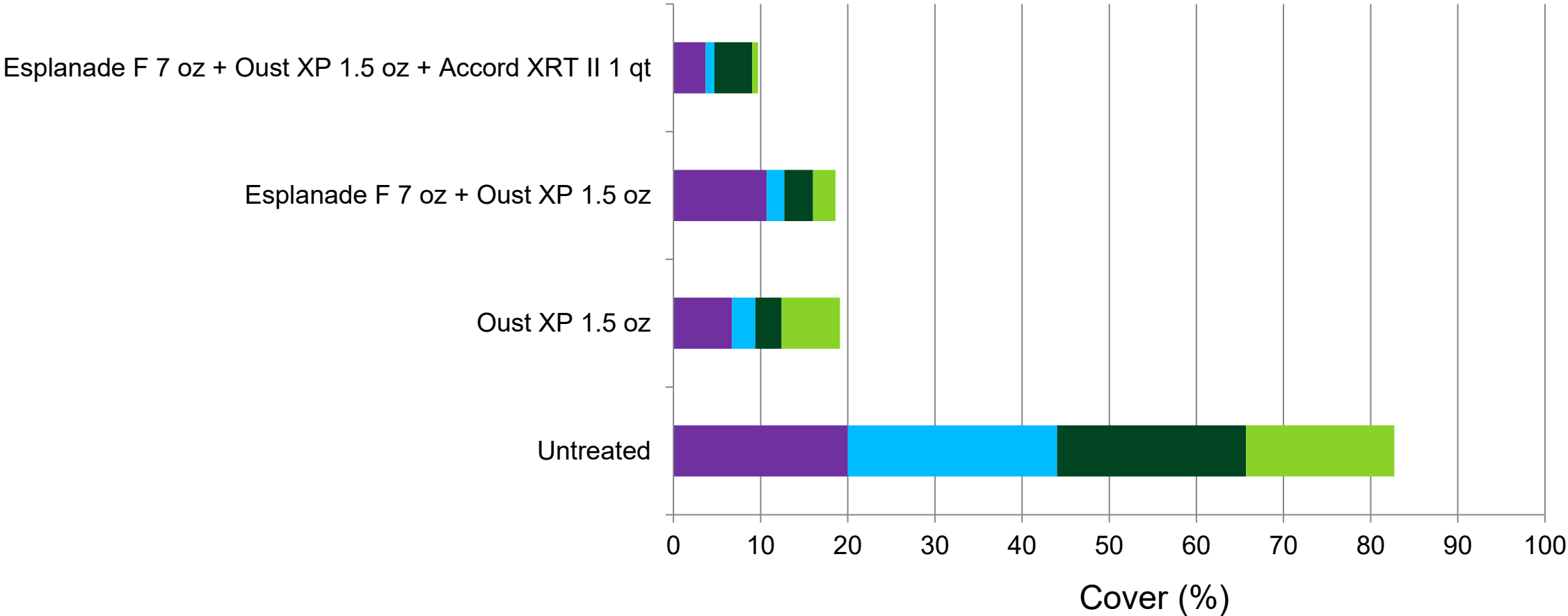




**Planted: 2016 March**  
**Treated: 2016 March (9 days after planting)**

### Vegetation – First year after treatment

■ False dandelion   ■ Canada bluegrass   ■ Sheep's sorrel   ■ Other weeds

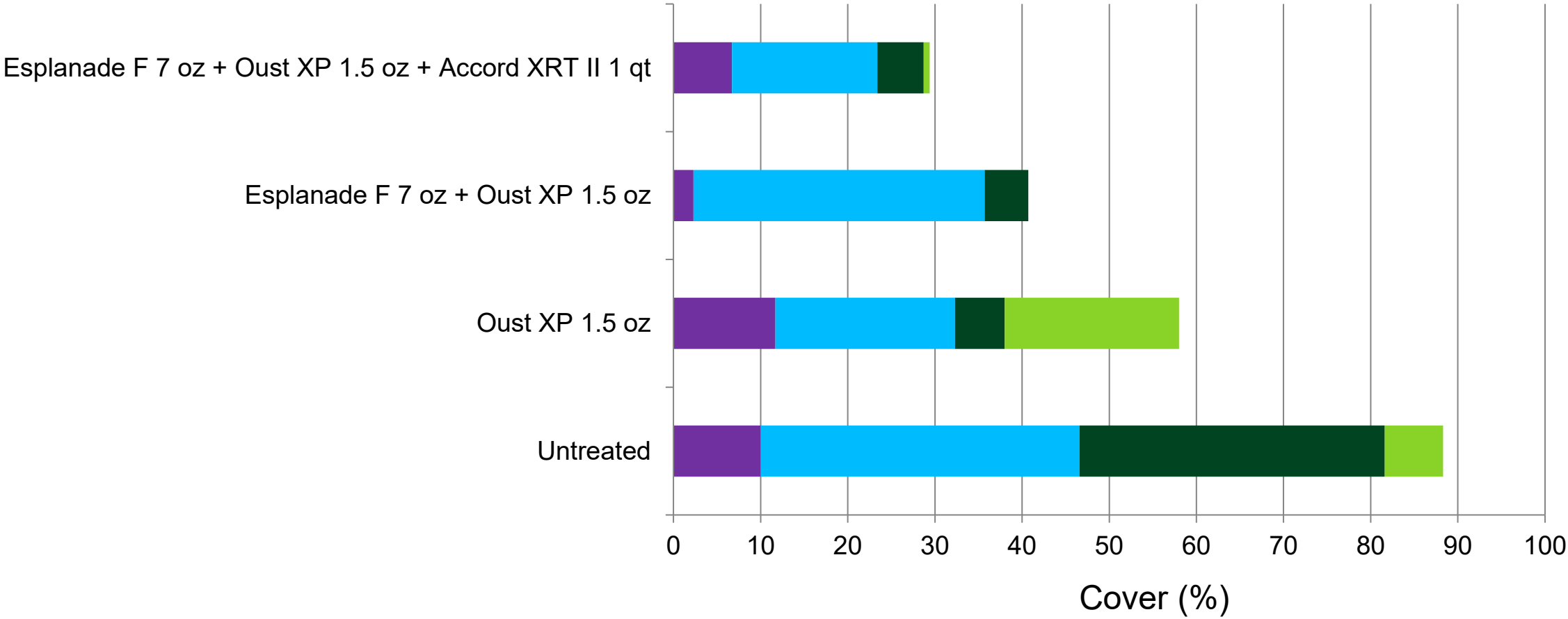


**Planted: 2016 March**  
**Treated: 2016 March (9 days after planting)**

# Vegetation – Second year after treatment

Perennial grass not controlled at treatment was released

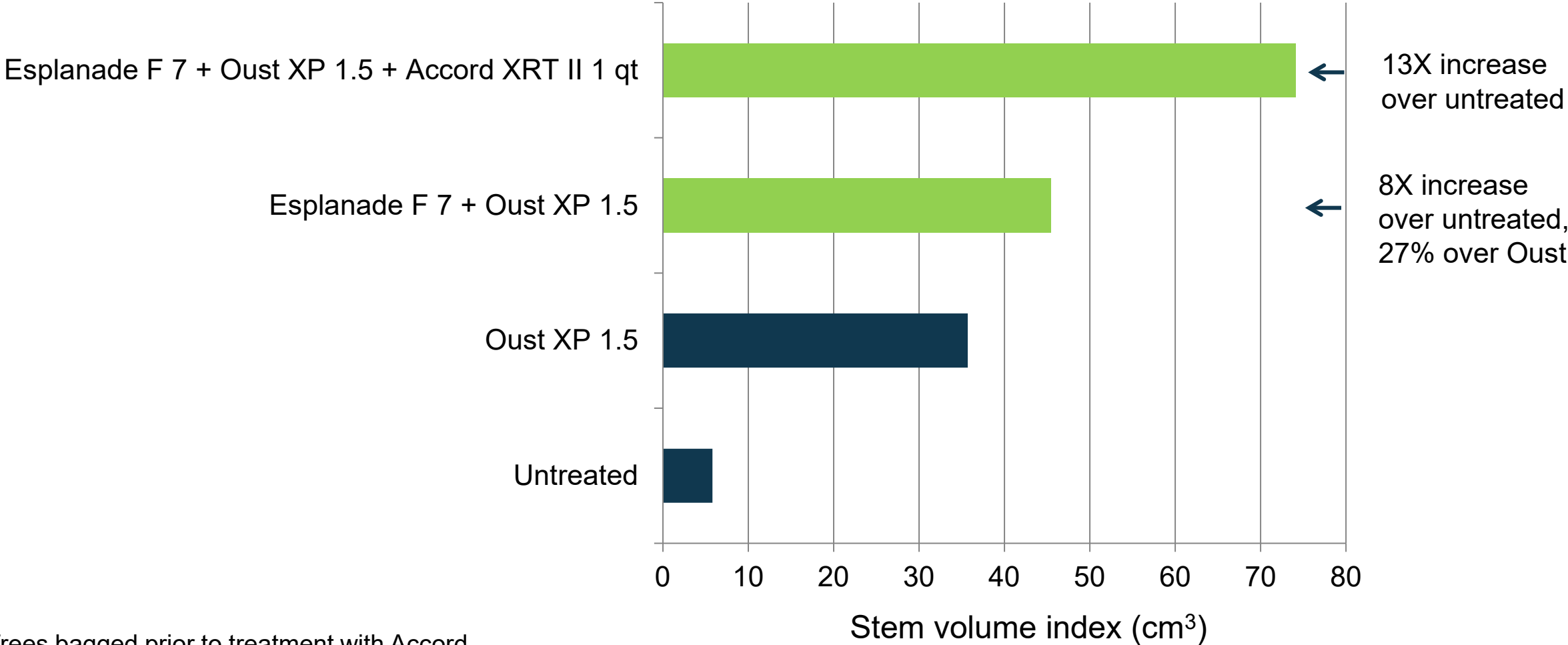
■ False dandelion   ■ Perennial grass   ■ Sheep's sorrel   ■ Rattail fescue





**Planted:** 2016 March  
**Treated:** 2016 March (9 days after planting)

### Douglas-fir stem volume index 2<sup>nd</sup> growing season



Trees bagged prior to treatment with Accord

July 2016  
4 Months after treatment



Untreated



Esplanade F + Oust XP



Esplanade F + Oust XP  
+ Accord XRT II

# Tolerance trials



# Site Preparation Cascades

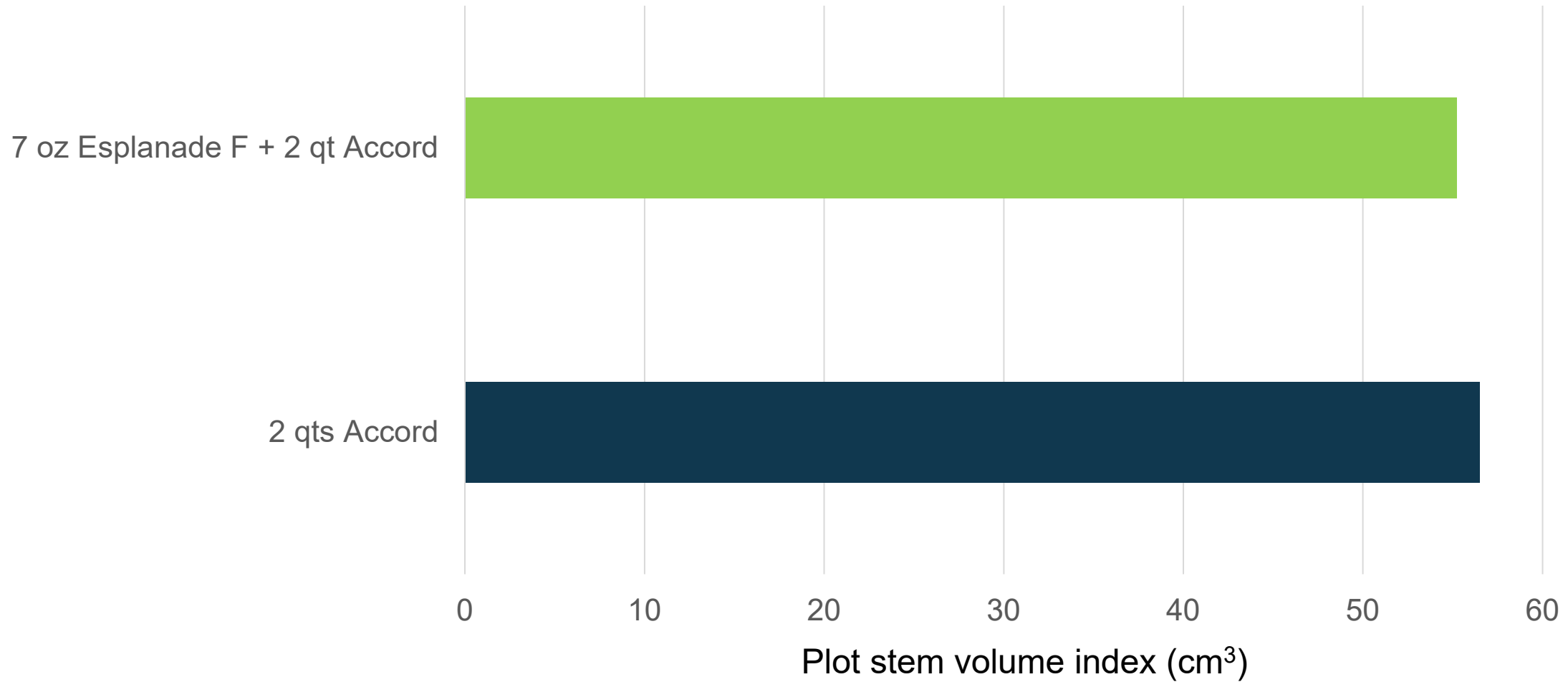
Red fir

White fir



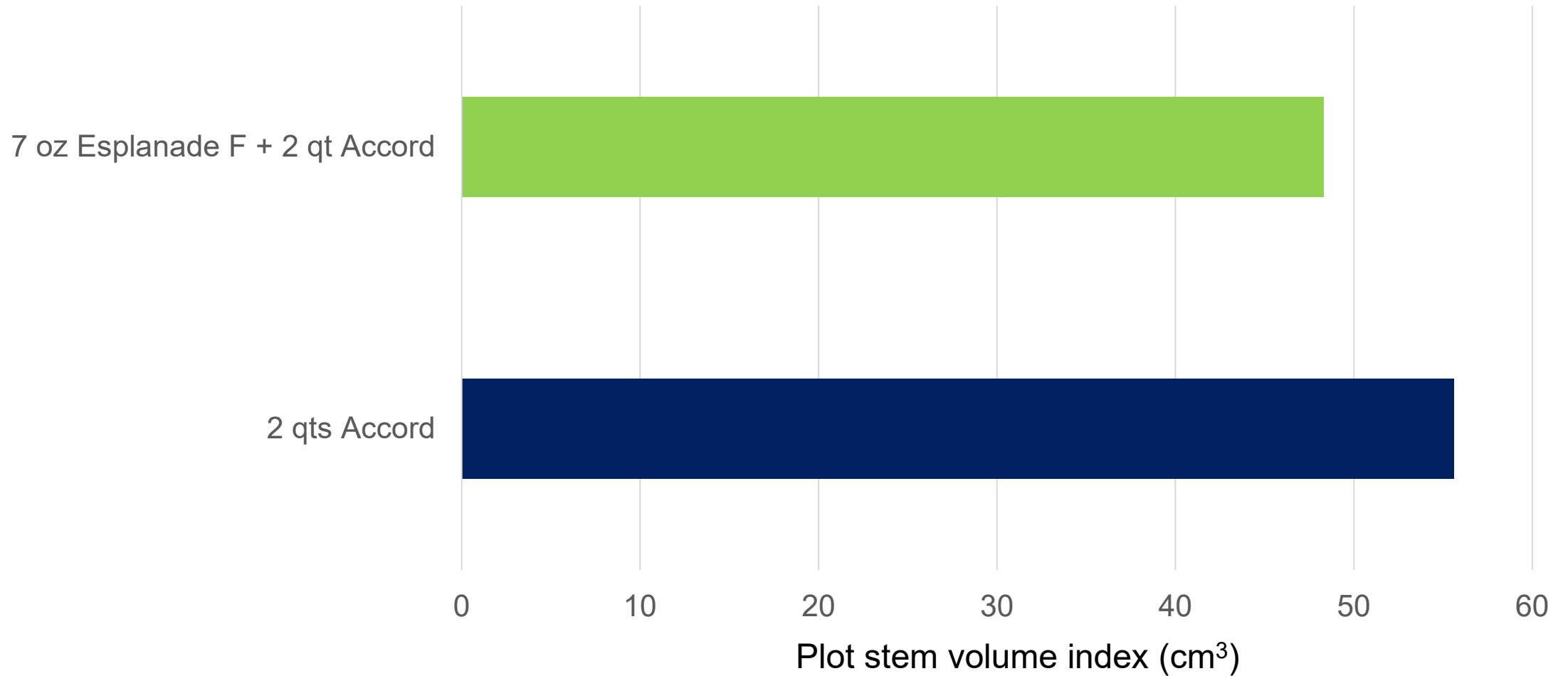
**Applied:** 2018 August  
**Planted:** 2018 October

### Red fir – Plot stem volume index (cm<sup>3</sup>) 2<sup>nd</sup> growing season



**Applied: 2018 August**  
**Planted: 2018 October**

**White fir – Plot stem volume index (cm<sup>3</sup>)**  
**2<sup>nd</sup> growing season**





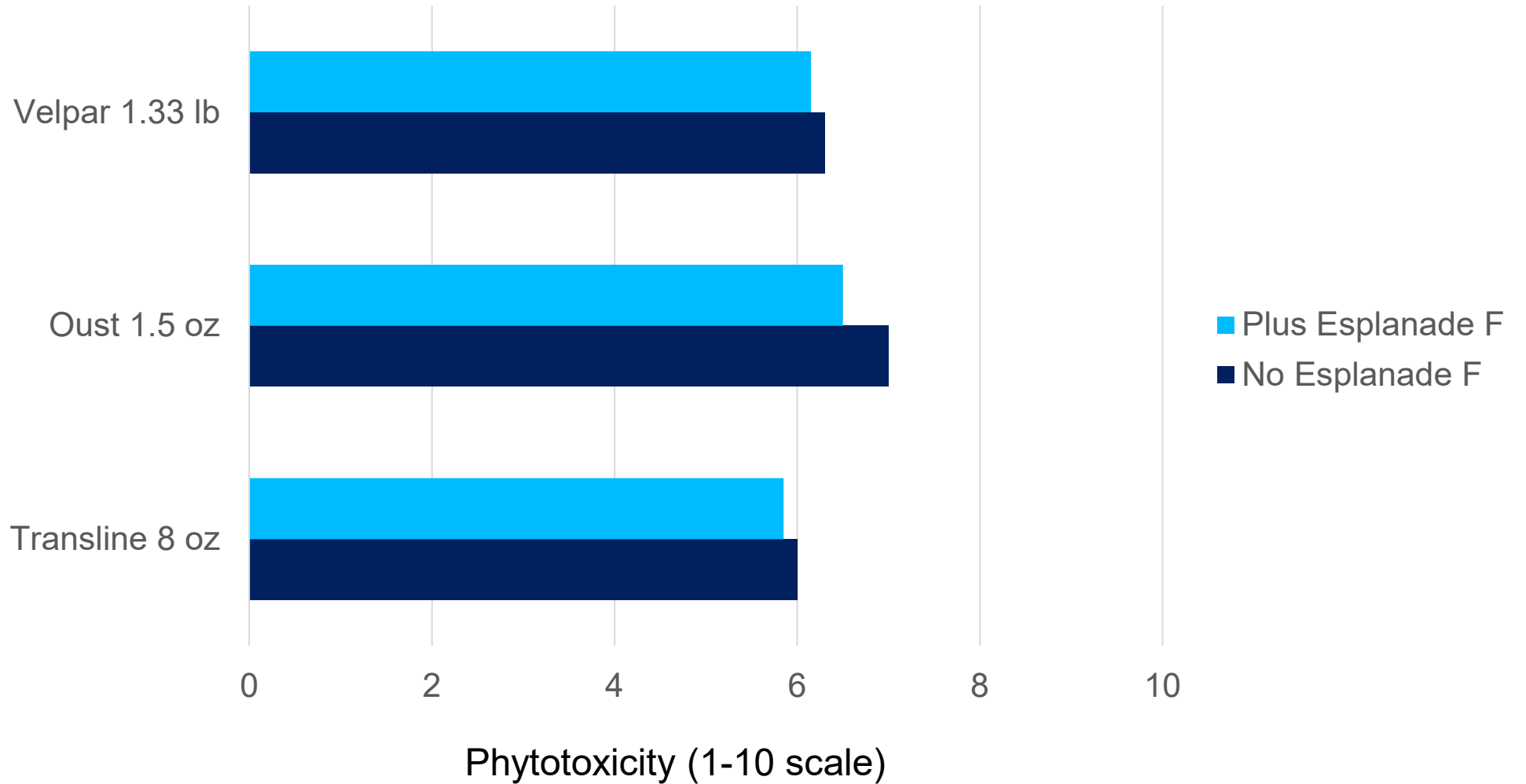
# Herbaceous Release Cascades

Western red cedar  
Western hemlock



**Applied: 2019 April**  
**Planted: 2019 April**  
**Assessed: 2019 July**

## Western red cedar phytotoxicity 1<sup>st</sup> growing season

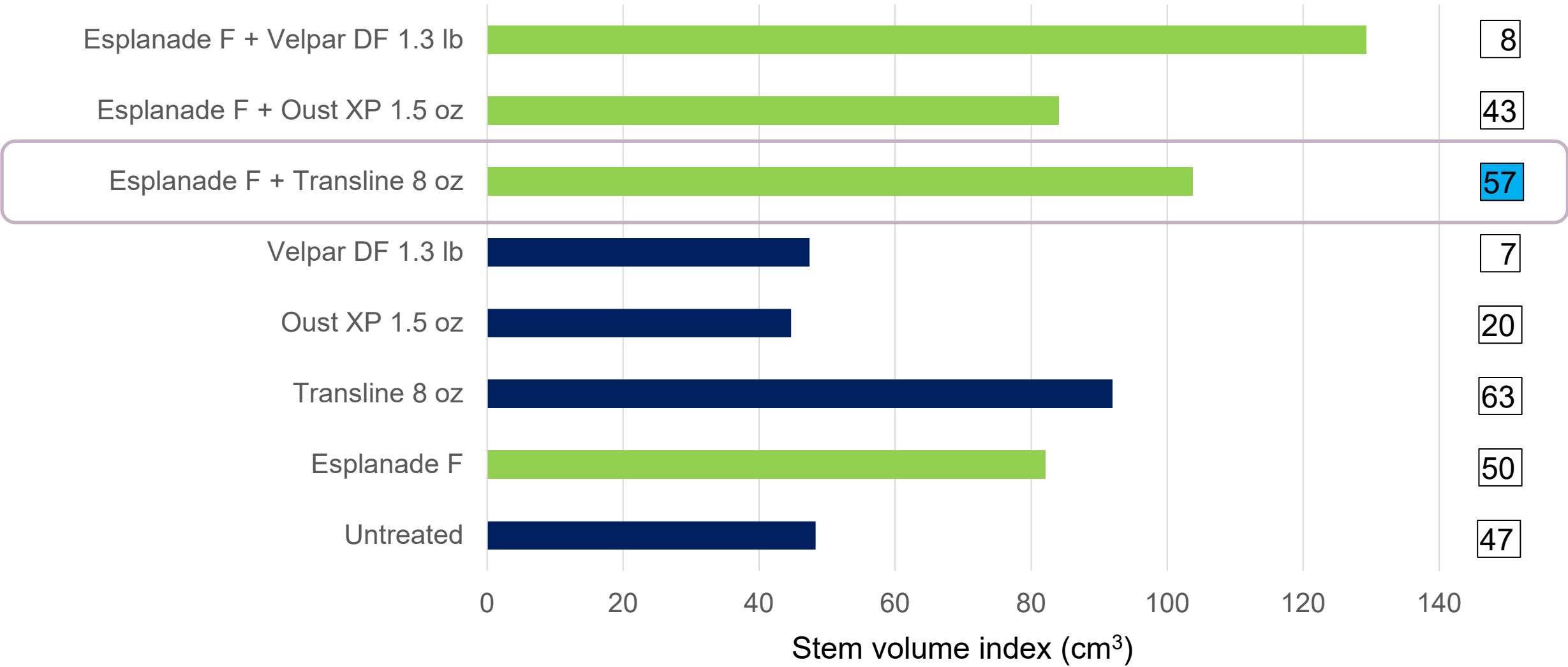


Applied: 2019 April  
Planted: 2019 April

# Western red cedar stem volume index 2<sup>nd</sup> growing season

Esplanade F + Transline was best  
treatment for growth and survival

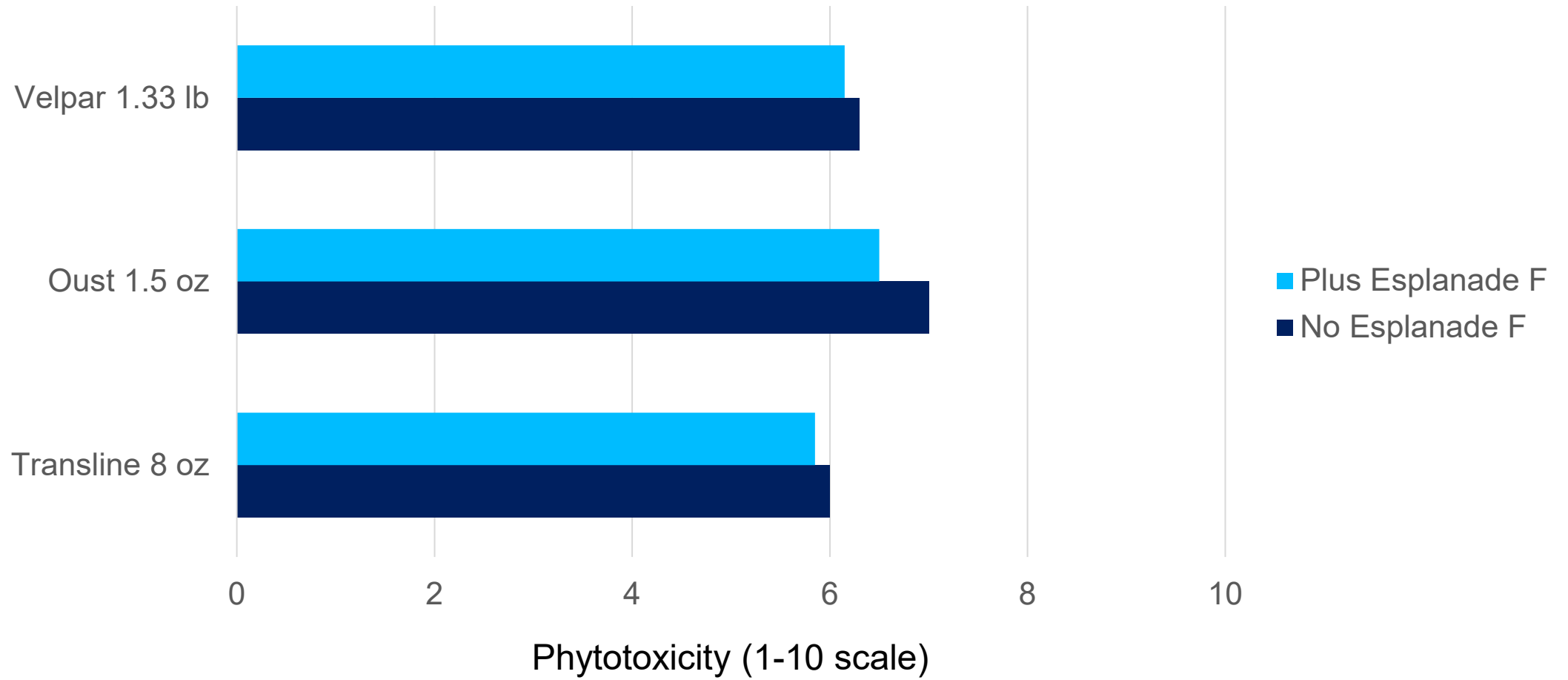
% Survival





**Applied: 2019 April**  
**Planted: 2019 April**  
**Assessed: 2019 July**

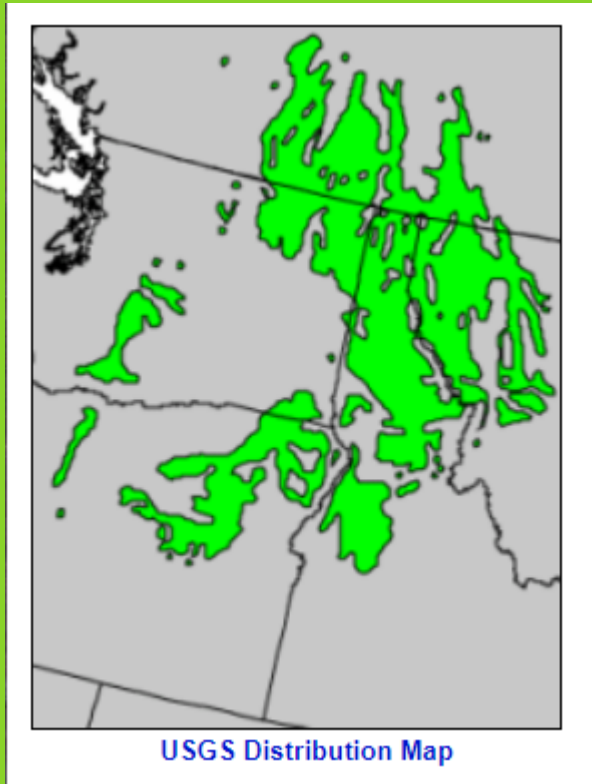
## Western hemlock phytotoxicity 1<sup>st</sup> growing season



No growth data due to poor survival from planting

# Herbaceous Release Northern Rockies

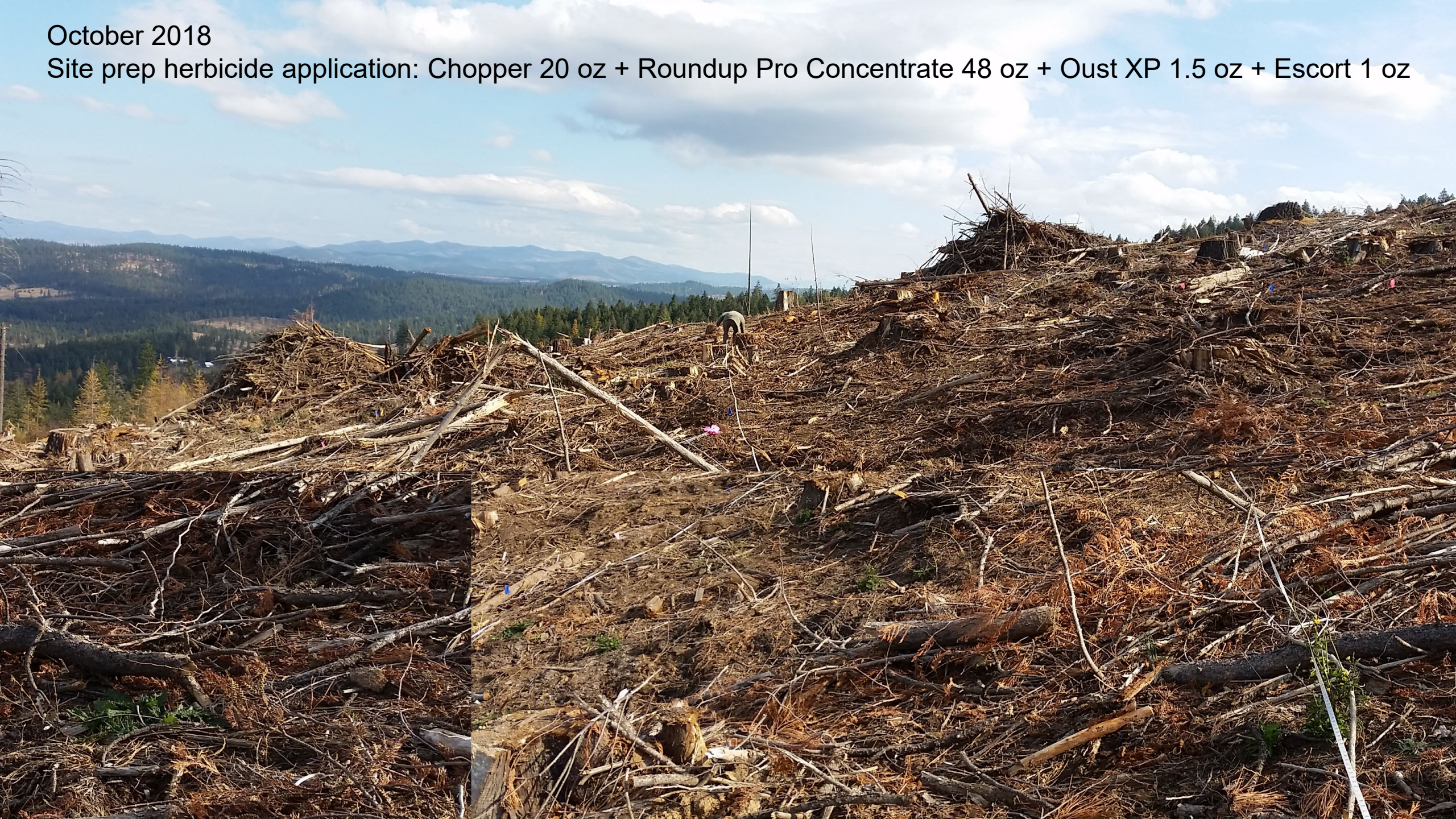
## Western Larch





October 2018

Site prep herbicide application: Chopper 20 oz + Roundup Pro Concentrate 48 oz + Oust XP 1.5 oz + Escort 1 oz

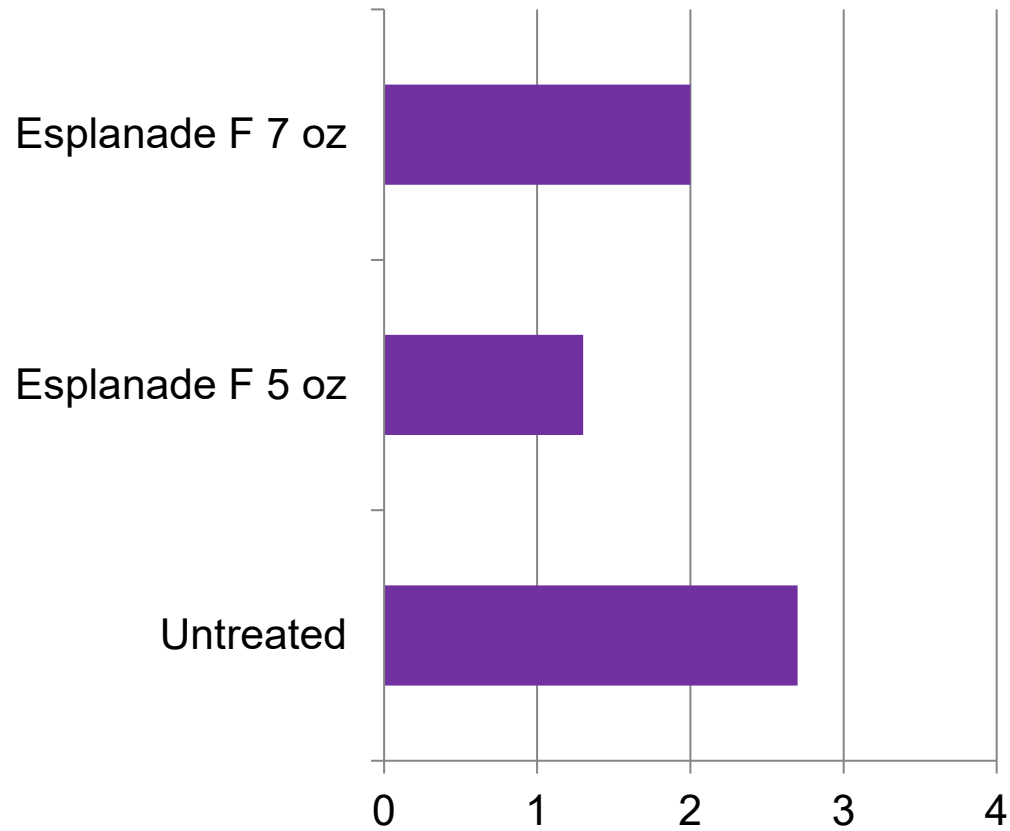




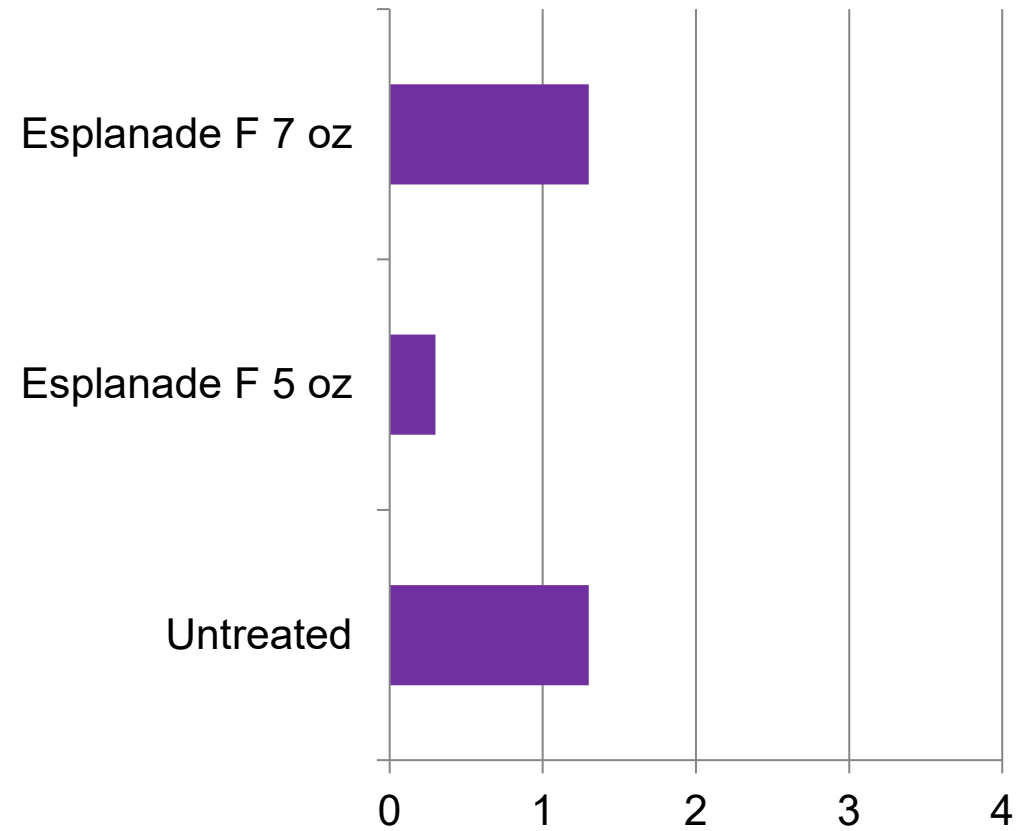
Planted: 2019 April  
Applied: 2019 May

## Western larch phytotoxicity

First growing season



Second growing season

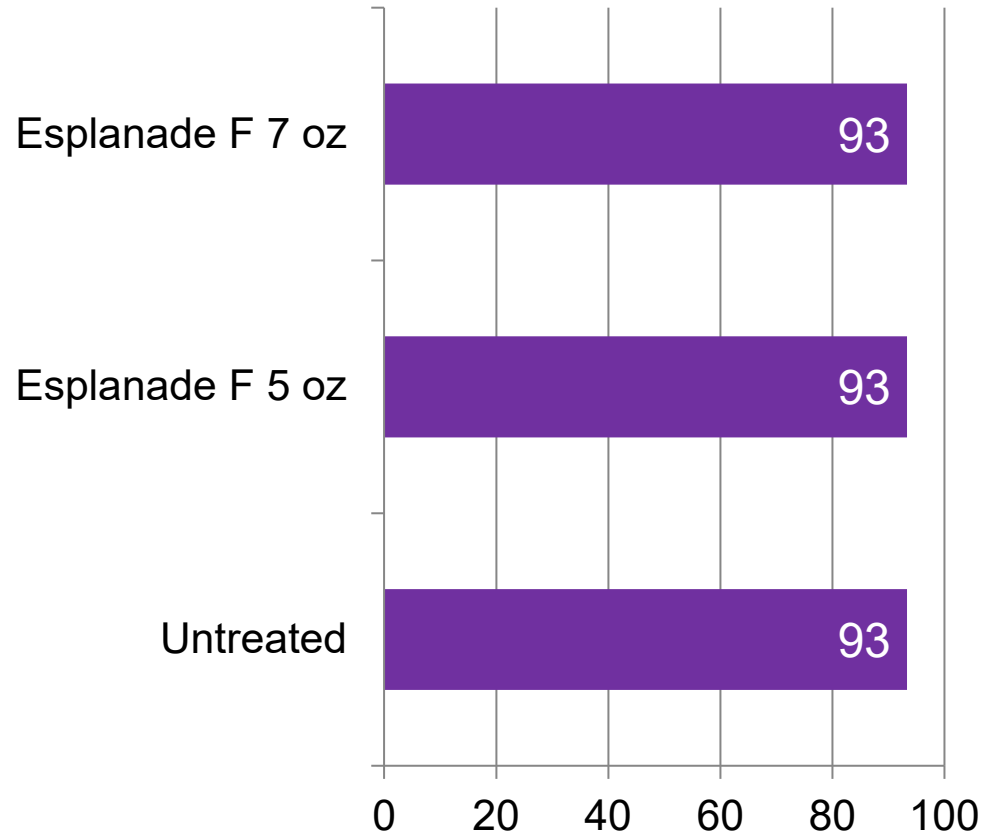


Phytotoxicity (1-10 scale)

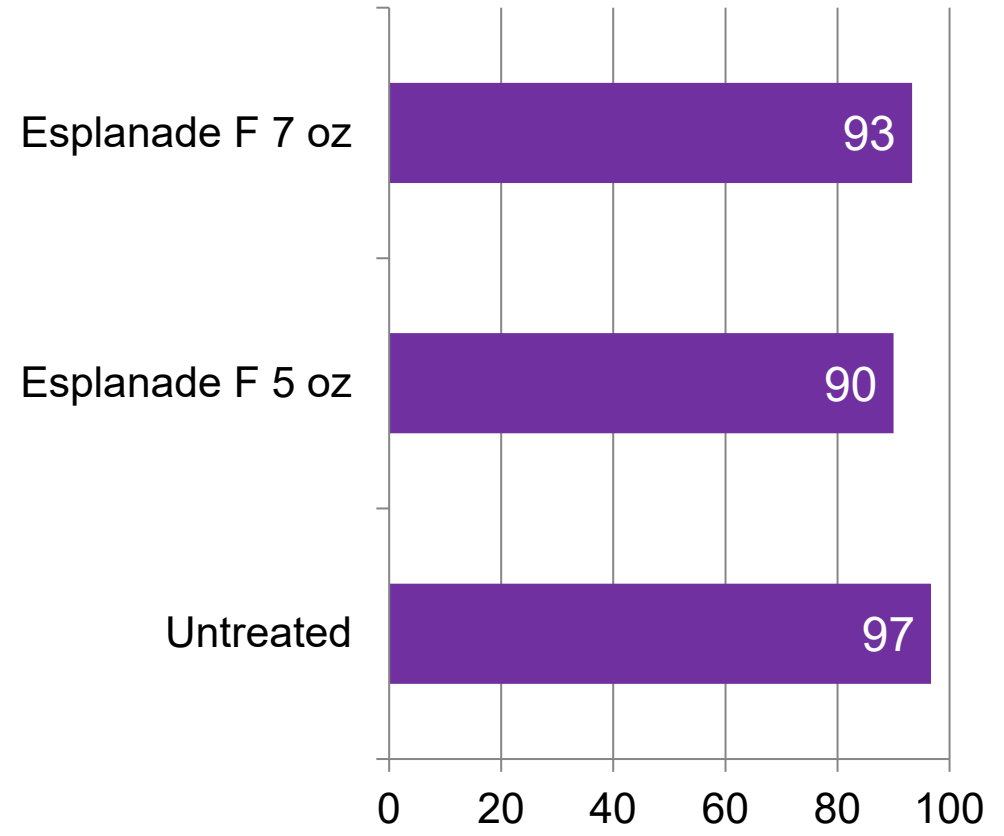
Planted: 2019 April  
Applied: 2019 May

### Western larch survival

First growing season



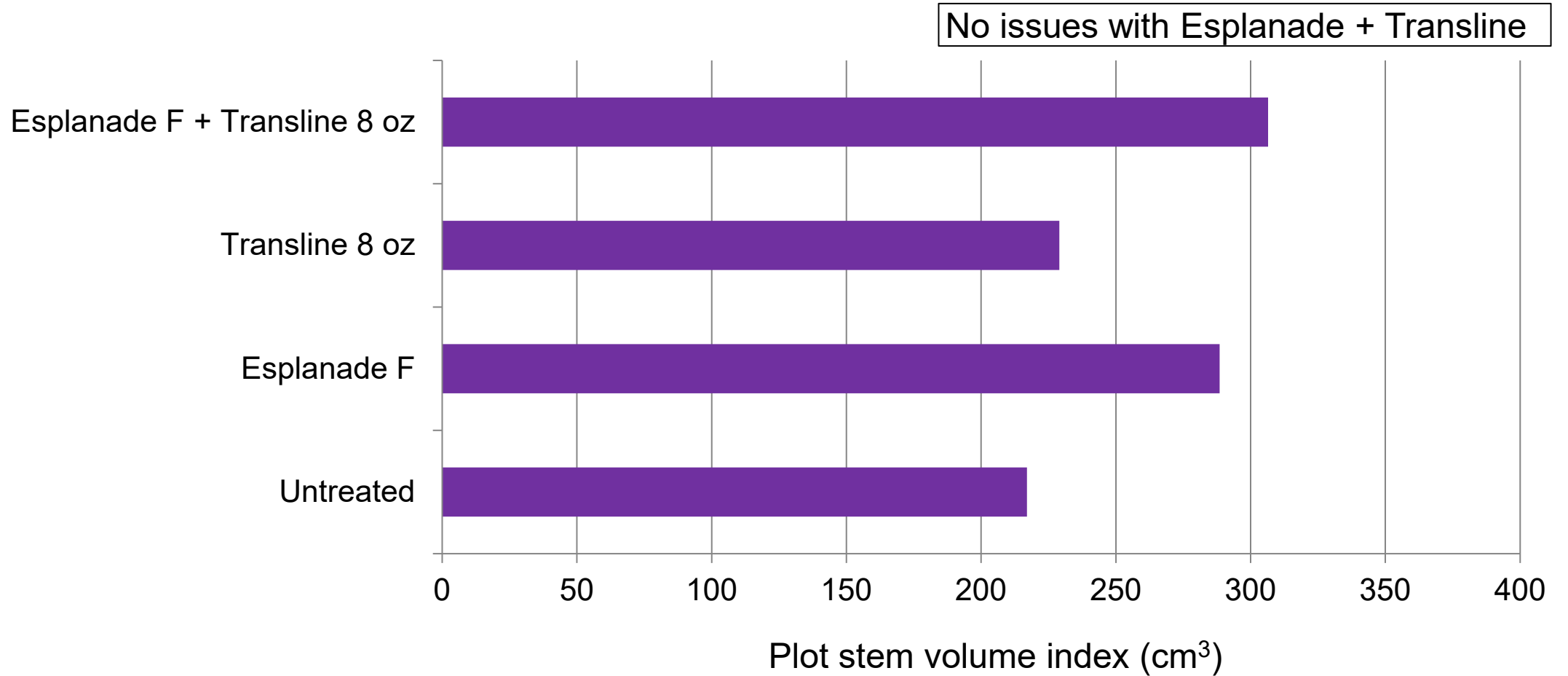
Second growing season



Survival (%)

Planted: 2019 April  
Applied: 2019 May

## Plot stem volume index – Esplanade + Transline 2<sup>nd</sup> growing season



Esplanade values averaged over 5 and 7 oz



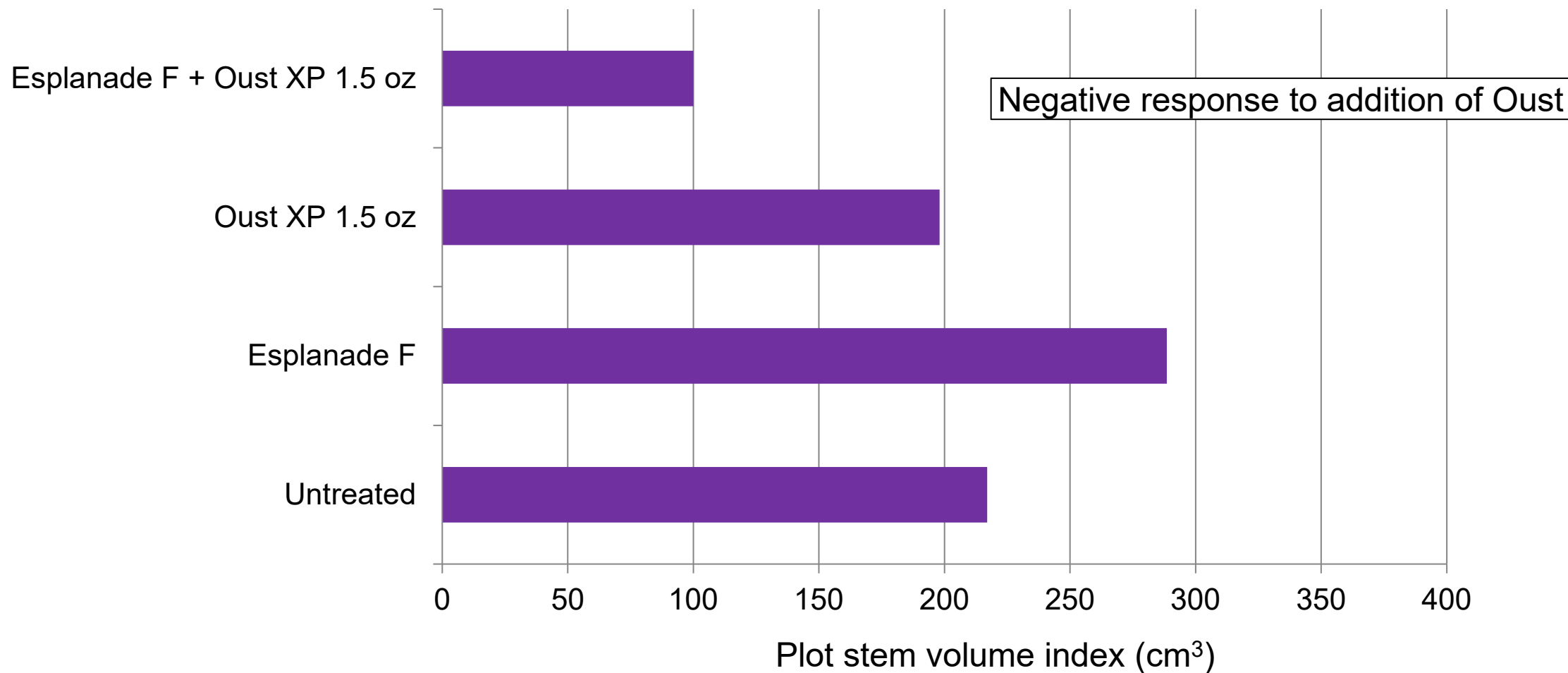
June 2020  
Esplanade F 5 oz + Transline 8 oz





Planted: 2019 April  
Applied: 2019 May

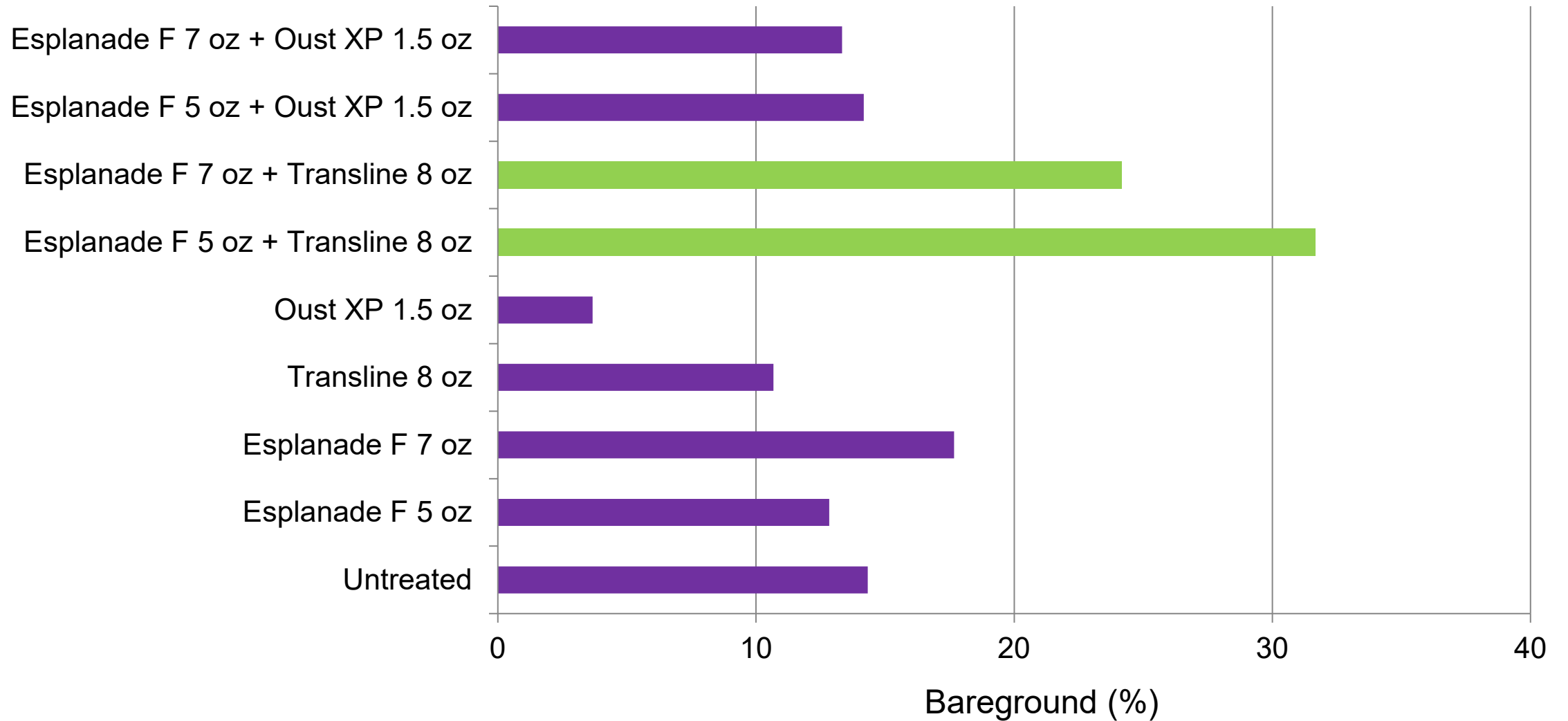
## Plot stem volume index – Esplanade + Oust 2<sup>nd</sup> growing season



Esplanade values averaged over 5 and 7 oz

**Planted: 2019 April**  
**Applied: 2019 May**

## Bareground – Second year after treatment





June 2020





July 2021





# Summary





# Esplanade F Summary

Tank mix Esplanade with other herbicides that provide

- // Burndown of established vegetation
- // Early post-emergence control
- // Pre-emergence control

Esplanade targets the soil seed bank

# Esplanade F For Site Preparation

Choose tank mix partners based on the crop species to be planted, the target vegetation and the environment

- // Velpar DF
- // Chopper
- // Oust Extra / Oust / Escort
- // Milestone
- // Cleantraxx
- // Roundup



# Esplanade F For Site Preparation

## Tolerant Conifers

- // Ponderosa pine
- // Coast redwood
- // Douglas-fir
- // Western larch

## Additional species showing tolerance

- // Sugar pine
- // Incense cedar
- // Red fir
- // White fir
- // Grand fir

# Esplanade F For Herbaceous Release

Choose tank mix partners based on the crop species,  
the target vegetation and the environment

- // Velpar DF
- // Oust XP
- // Transline
- // Roundup (pre-plant or directed)



# Esplanade F For Herbaceous Release

## Tolerant Conifers

- // Ponderosa pine
- // Coast redwood
- // Douglas-fir

## Additional species showing tolerance

- // Western red cedar
- // Western hemlock
- // Grand fir
- // Sugar pine
- // Western larch

# Thank You

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