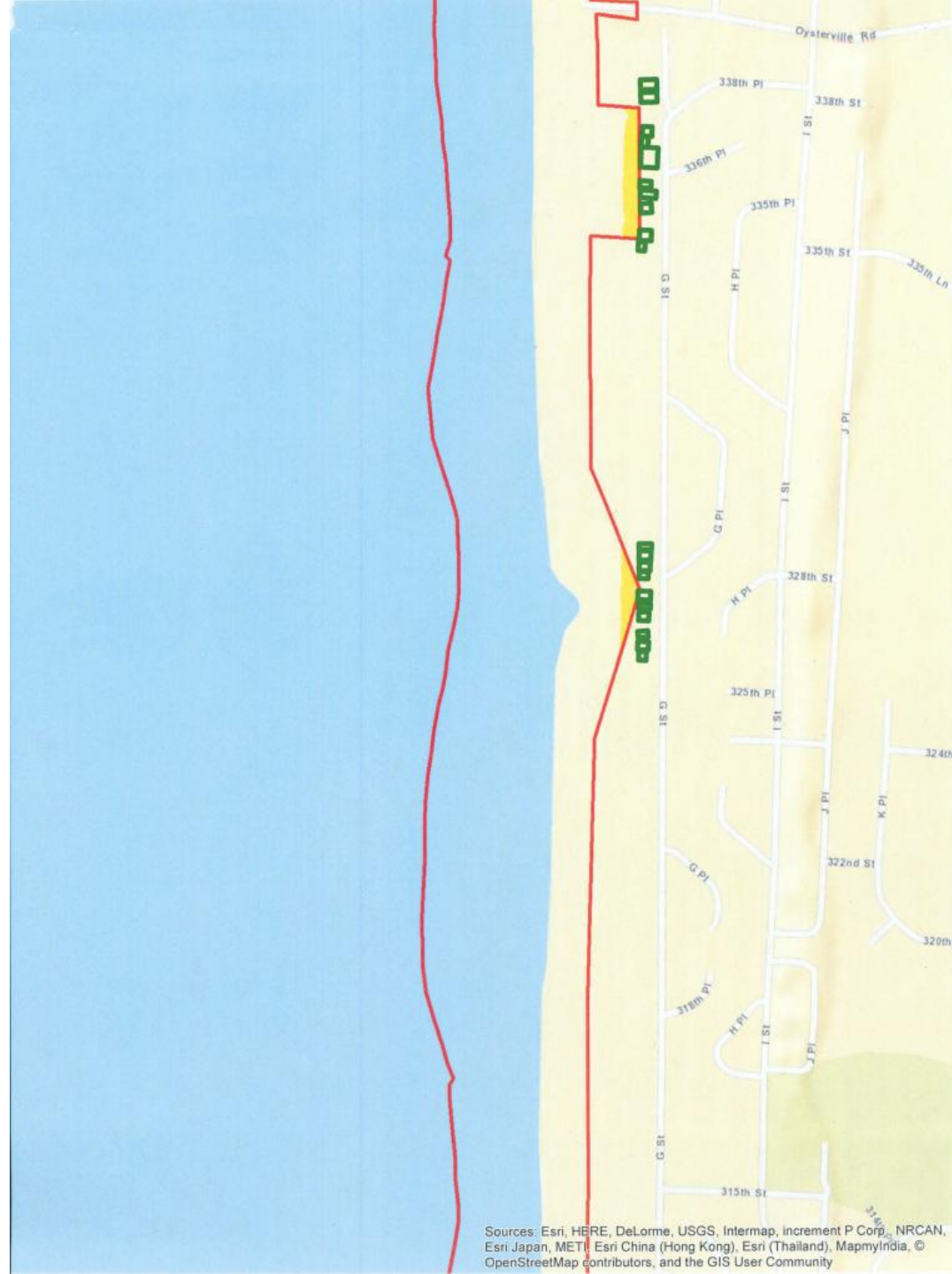


Wildfire
Information
Pacific County
(July 2026)

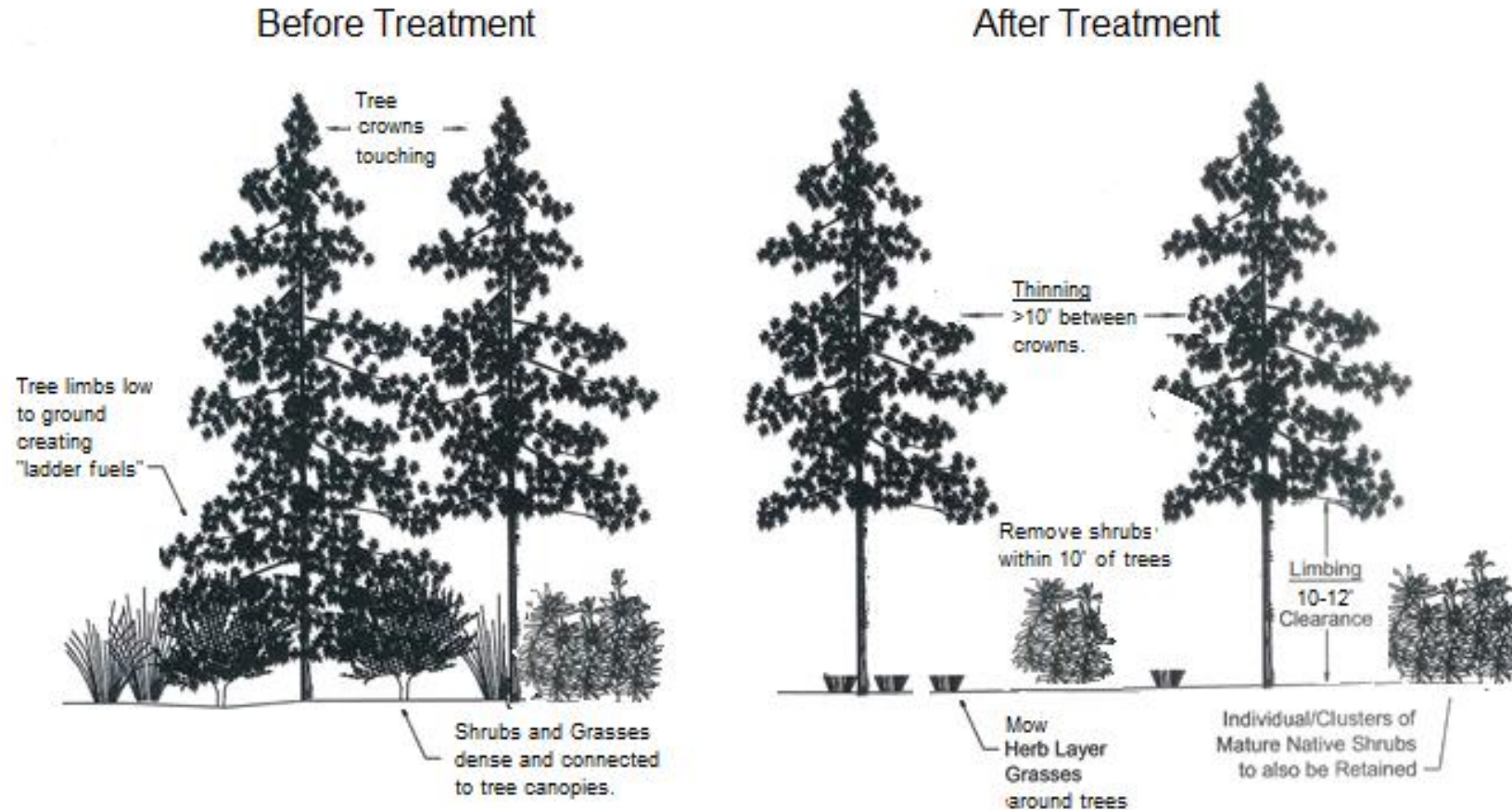








Long Beach SCA Defensible Space Prescription



Additional notes:

- Remove all seedlings/sapling size trees 2" diameter and less.
- Remove all dead trees shrubs and downed logs where possible.
- Chip material when possible. Otherwise pile in far back of 100' buffer.
- No cutting in wetlands.
- No cutting any trees greater than 10" diameter.



Long Beach SCA Defensible Space Work Areas



- Follow the defensible space prescription on State Parks property within 100 feet of permanent structures.
- Use GPS units and on the ground features (survey posts, fences, vegetation lines) to confirm location.
- Only work on State Parks property. If you are unsure skip the area and note location.
- If anyone asks you not to work behind their property move on and note location.
- Ask permission to cross through private property.

















Development + Dune Growth + Shore Pine Growth

REFERENCES

- WA Department Of Ecology
 - <https://apps.ecology.wa.gov/shorephotoviewer/>
 - Photographic timeline from 1976 – 2016 of the shorelines in Washington State.
 - Dozens of points along the Long Beach Peninsula shoreline
 - <https://nvs.nanoos.org/BeachMapping>
 - Historical graphs of elevation and accretion/erosion along the shoreline
 - <https://waecy.maps.arcgis.com/apps/View/index.html?appid=389d0a3ce642485db912d4a416a56e25>
 - (Retired) interactive map showing annual accretion/erosion rates in meters/year.
- *Photo to right is of the Tides West neighborhood, west of Hwy 103. Date is 6/9/1977. Found at https://fortress.wa.gov/ecy/gisresources/shoreline_photos/yr1970/fullsize/PAC0677_400.jpg*



Wildfire Data

*Data / Statistical Analysis of
Wildfires in Pacific County
Fire District #1's primary
response area*



Background

- An evaluation of wildfires in PCFD#1's primary response area was conducted from the past 16 years (2010 – 2025)
- A total of 161 wildfire reports were reviewed ($n=161$)
- Zone, fuel modeling, property ownership, cause of fire, structures threatened and/or involved, area burned, resource requirements, and total scene times were compiled and evaluated.
- A focused analysis of dune fires was also conducted
- Dune fires were further evaluated through a focused evaluation and historical comparison during the same time 16-year timeline

Major Dune Fires

- Mar 8, 2012 – 1 acre; 1 home burned; 172nd Place
- Jan 25, 2014 – 10 acres; threatened 2 homes; 120th Street
- Jan 1, 2016 – 10.5 acres; threatened 2 homes; 265th Place
- Jun 4, 2016 – 12 acres; threatened 12 homes; 347th Street
- Jul 5, 2016 – 2.5 acres; threatened 1 home; 205th Lane
- Jan 13, 2019 – 2 acres; threatened 2 homes ; 215th Lane
- Apr 17, 2021 – 4.5 acres; threatened 1 home; 151st Place
- Aug 21, 2025 – 6 acres; threatened 3 homes/1 business; Bay Ave



Major Fires – January 25, 2014



Major Fires – January 1, 2016



Major Fires – June 4, 2016



Major Fires – August 21, 2025

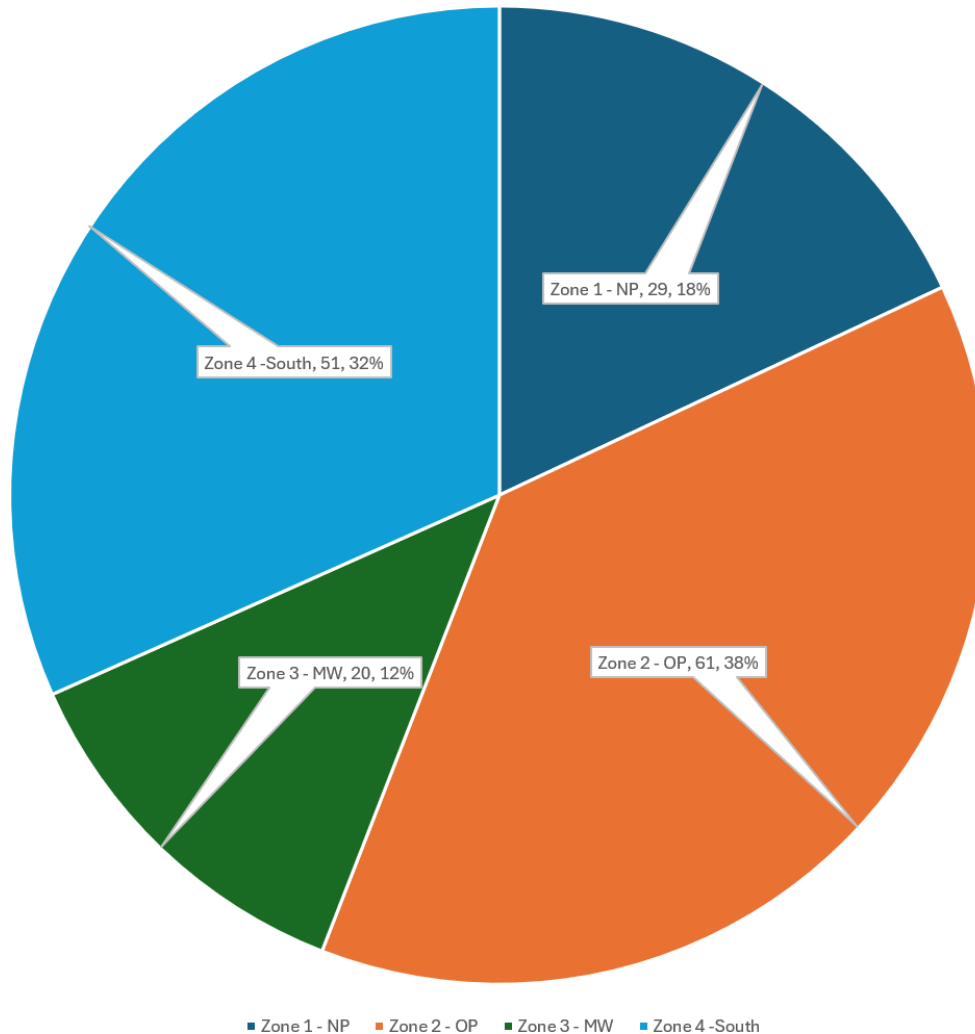


Post Fire Pictures

- #06-1180
 - Date of Incident: 07/03/2006
 - Cross Street: 234th
 - DOE Photo Date: 08/19/2006
 - https://fortress.wa.gov/ecy/gisresources/shoreline_photos/yr2006/fullsize/060819_16413.jpg
- #16-0001
 - Date of Incident: 01/01/2016
 - Cross Street: 265th
 - DOE Photo Date: 07/14/20216
 - https://fortress.wa.gov/ecy/gisresources/shoreline_photos/yr2016/fullsize/160714_00655.jpg
- #16-0853
 - Date of Incident: 06/04/2016
 - Cross Street: 347th
 - DOE Photo Date: 07/14/2016
 - https://fortress.wa.gov/ecy/gisresources/shoreline_photos/yr2016/fullsize/160714_00667.jpg
- #16-1065
 - Date of Incident: 07/05/2016
 - Cross Street: 205th
 - DOE Photo Date: 07/14/2016
 - https://fortress.wa.gov/ecy/gisresources/shoreline_photos/yr2016/fullsize/160714_00645.jpg

Wildfire – Zone

($n=161$)



- **Zone 1 – North Peninsula**
 - West Boundary – Pacific Ocean
 - East Boundary – Willapa Bay
 - North Boundary – Leadbetter Point
 - South Boundary – Joe John’s Road
- **Zone 2 – Ocean Park**
 - West Boundary – Pacific Ocean
 - East Boundary – Willapa Bay
 - North Boundary – Joe John’s Road
 - South Boundary – 200th Street
- **Zone 3 – Midway**
 - West Boundary – Pacific Ocean
 - East Boundary – Willapa Bay
 - North Boundary – 200th Street
 - South Boundary – Cranberry Road
- **Zone 4 – South**
 - West Boundary – Pacific Ocean
 - East Boundary – Teal Lane
 - North Boundary – Cranberry Road
 - South Boundary – 30th/Willows Road

Wildfire – Fuel Model

(*n=161*)

- Residential Grass (RG) – light grass, yards
- Mixed Brush (MXB) – light shrubbery
- Beach Grass (BG) – aka dune grass
- Beach Grass + Shore Pine (BG/SP) – dune grass and shore pine
- Subsurface (SS) – duff, root systems

- Residential Grass = 38 (23.6%)
- Mixed Brush = 49 (30.4%)
- Beach Grass = 42 (26.1%)
- Beach Grass + Shore Pine = 19 (11.8%)
- Subsurface = 13 (8.8%)

Wildfire – Property Ownership

(*n*=161)

- **Private** = 122 (75.8%)
 - **State** = 25 (15.5%)
 - **State & Private** = 11 (6.8%)
 - **Other Public** = 3 (1.9%)
- Private – private property (regardless of fire patrol assessment)
 - State – Seashore Conservation Area, State Parks (Loomis, Pacific Pines, etc)
 - State/Private – fire impacted both
 - Other Public – County right-away, road shoulders, USFW lands

Wildfire – Cause

(*n=161*)

- Debris – outdoor burning
 - Fireworks - fireworks
 - Machine – mowing or other machinery
 - Discard smoldering – improper disposal of burnt material
 - Vehicle – vehicle fire, exhaust
 - Weed burning – open torch
 - Electricity – power lines, in-ground transformer
 - Cooking – cooking too close
 - Debris/Encamp – open flame in encampment
 - Incendiary – intentional ignition
 - Undetermined – cause could not be determined due to lack of evidence
- **Debris** = 50 (**31%**)
 - **Fireworks** = 29 (**18%**)
 - **Machine** = 8 (**5%**)
 - **Discard smoldering** = 8 (**5%**)
 - **Vehicle** = 3 (**1.9%**)
 - **Weed burning** = 3 (**1.9%**)
 - **Electricity** = 2 (**1.2%**)
 - **Cooking** = 1 (**0.6%**)
 - **Debris/Encamp** = 2 (**1.2%**)
 - **Incendiary** = 1 (**0.6%**)
 - **Undetermined** = 54 (**33.5%**)

Wildfire – Area Burned

($n=161$)



- Min = <0.1 acres
- Max = 12 acres
- Mean = 1.3 acres
- Median = 0.28 acres

Wildfire – Structure Threat / Damage

($n=161$)

- 25 wildfires threatened structures
 - 15.5% of all wildfires threatened structures
- 5 homes were damaged
 - 3.1% of all wildfires resulted in damage to a structure



Wildfire – Apparatus & Firefighters

($n=161$)

Apparatus

- Min = 1
- Max = 16
- Mean = 3.3
- Median = 3

Firefighting Personnel

- Min = 2
- Max = 33
- Mean = 6.7
- Median = 6



Wildfire – Mutual Aid (*n*=161)

- Mutual aid from neighboring jurisdictions was requested and received 16 times
 - 9.9% of all wildfires required mutual aid for assistance in fire attack or structural protection

Fire Impacts on Dune Grass & Shore Pine



Dune Fires – Zone

n=61

Dune Grass Only (42)

- Zone 1 (NP) = 8
- Zone 2 (OP) = 13
- Zone 3 (MW) = 7
- Zone 4 (SOUTH) = 14

Dune Grass w/ Shore Pine (19)

- Zone 1 (NP) = 2
- Zone 2 (OP) = 6
- Zone 3 (MW) = 6
- Zone 4 (SOUTH) = 5

Dune Fires – Property Ownership

n=61

Dune Grass Only (42)

- Private = 23
- State = 13
- State & Private = 11

Dune Grass w/ Shore Pine (19)

- Private = 8
- State = 6
- State & Private = 5

Dune Fires – Area Burned

n=61

Dune Grass Only (42)

- Min = <0.1 acres
- Max = 2 acres
- Mean = 0.4 acres
- Median = 0.1 acres

Dune Grass w/ Shore Pine (19)

- Min = <0.1 acres
- Max = 12 acres
- Mean = 3.1 acres
- Median = 1 acre

Dune Fires – Structures Threat / Damage

n=61

Dune Grass Only (42)

- Threatened
 - 4 out of 42
 - Approximately 9.5%
- Damaged
 - 0 out of 42
 - No damage to structures reported

Dune Grass w/ Shore Pine (19)

- Threatened
 - 9 out of 19
 - Approximately 47.7%
- Damaged
 - 3 out of 19 (15.8%) fires involving shore pines resulting in damage
 - 3 out of 9 threatening (33.3%) resulted in damage

Dune Fires – Cause

n=61

Dune Grass Only (42)

1. Fireworks = 17
2. Undetermined = 16
3. Machinery = 4
4. Weed Burning = 2
5. Discard Smoldering = 1
6. Debris Burning = 1
7. Incendiary = 1

Dune Grass w/ Shore Pine (19)

1. Debris Burning = 7
2. Undetermined = 6
3. Fireworks = 3
4. Machinery = 1
5. Discard Smoldering = 1
6. Vehicle = 1

Dune Fires – Apparatus and Firefighters

n=61

Dune Grass Only (42)

- Apparatus

- Min = 1
- Max = 7
- Mean = 3.5
- Median = 3

- Firefighters

- Min = 3
- Max = 16
- Mean = 7.1
- Median = 7

Dune Grass w/ Shore Pine (19)

- Apparatus

- Min = 2
- Max = 16
- Mean = 6
- Median = 5

- Firefighters

- Min = 3
- Max = 33
- Mean = 12.9
- Median = 11

Dune Fires – Mutual Aid

Dune Grass Only (42)

- Mutual aid request/received
 - 4 out of 42
 - Approximately 9.5%

Dune Grass w/ Shore Pine (19)

- Mutual aid request/received
 - 10 out of 19
 - Approximately 52.6%

Dune Fires – Total Scene Time

n=61

Dune Grass Only (42)

- Min = 11 minutes
- Max = 105 minutes
- Mean = 42.5 minutes
- Median = 34.5 minutes

Dune Grass w/ Shore Pine (19)

- Min = 34 minutes
- Max = 273 minutes
- Mean = 95.4 minutes
- Median = 85 minutes

Dune Fires

Comparison

2010-2017 vs 2018-2025

Dune Fires – Zone

Comparison

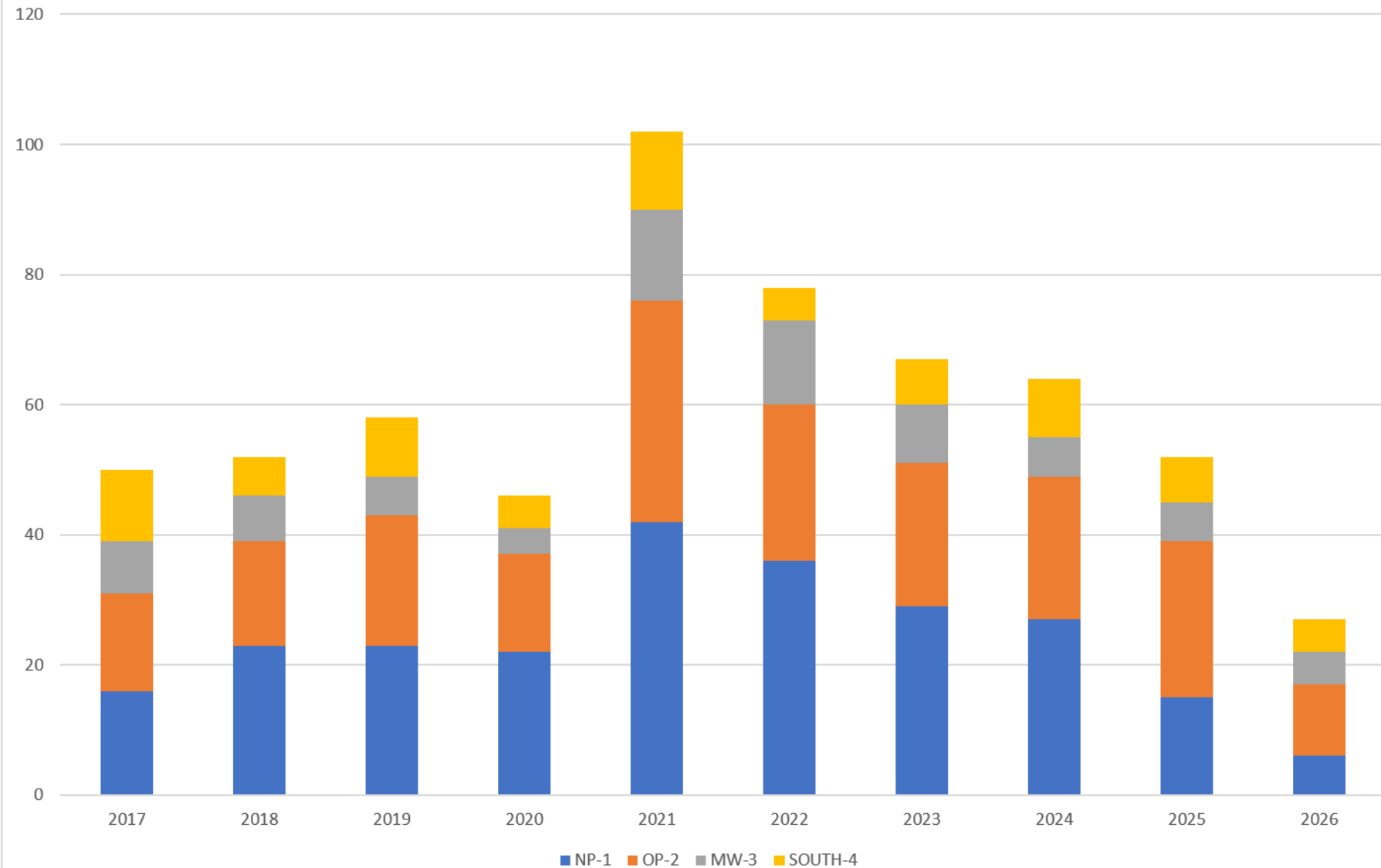
2010 – 2017 (31)

- Zone 1 = 6
- Zone 2 = 10
- Zone 3 = 5
- Zone 4 = 10

2018 – 2025 (30)

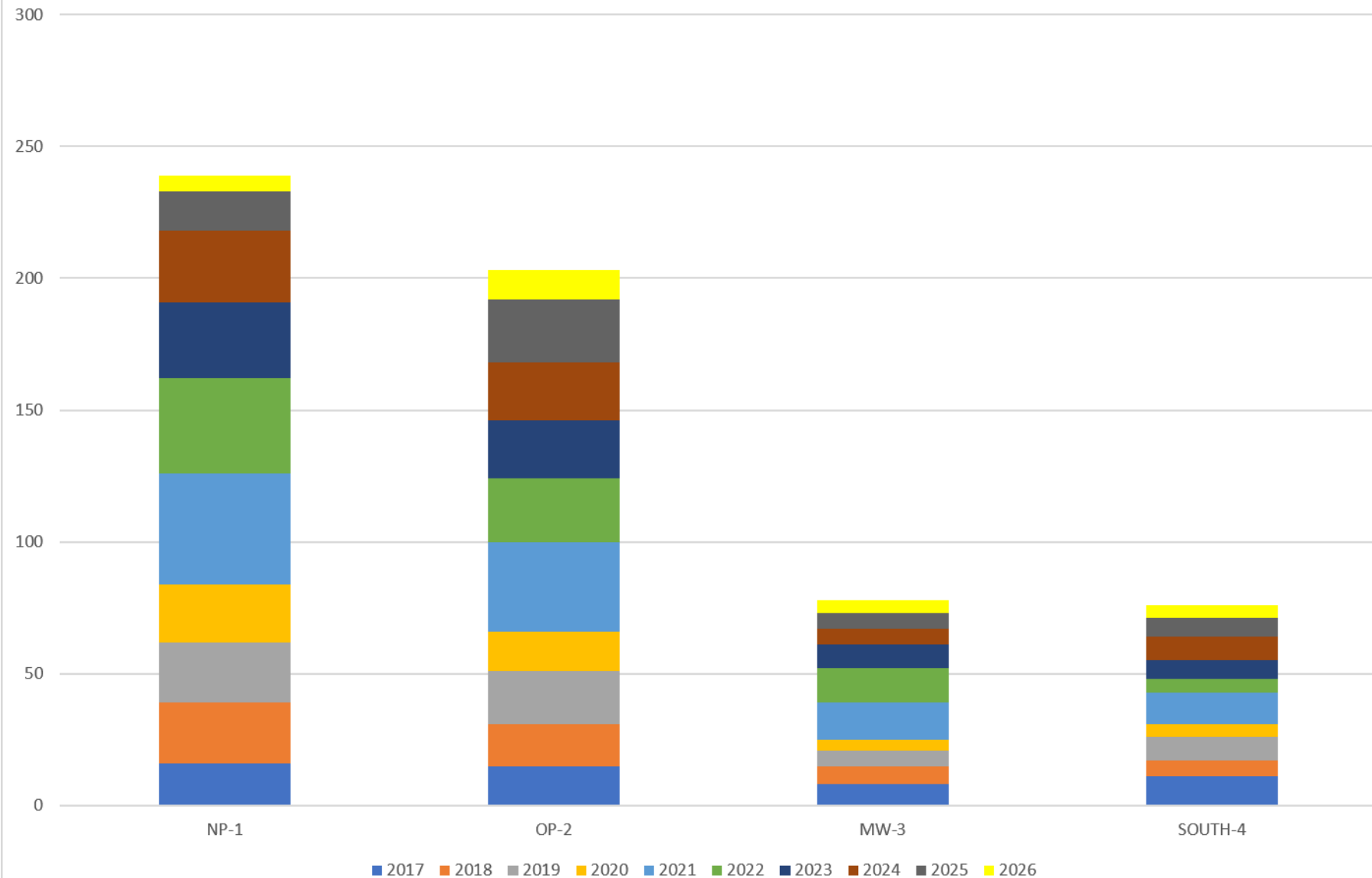
- Zone 1 = 4
- Zone 2 = 9
- Zone 3 = 8
- Zone 4 = 9

Building Permits
(NSFR, NSFG, NMFR, MH)
2017 - 2026 (*thru June*)



BUILDING PERMITS

(Cumulative 2017 Thru *June 2026*)



Dune Fires – Property Ownership

Comparison

2010 – 2017 (31)

- Private = 15
- State = 12
- State & Private = 4

2018 – 2025 (30)

- Private = 16
- State = 7
- State & Private = 7

Dune Fires – Fuel Model

Comparison

2010 – 2017 (31)

- Beach grass only = 23
- Beach grass + shore pine = 8

2018 – 2025 (30)

- Beach grass only = 19
- Beach grass + shore pine = 11

Dune Fires – Structures Threat / Damage

Comparison

2010 – 2017 (31)

- Beach Grass Only (23)
 - Structures Threat - 1
 - Structure Damage - 0
- Beach Grass + Shore Pine (8)
 - Structures Threat - 6
 - Structure Damage - 3

2018 – 2025 (30)

- Beach Grass Only (19)
 - Structures Threat - 3
 - Structure Damage - 0
- Beach Grass + Shore Pine (11)
 - Structures Threat - 3
 - Structure Damage - 0

Dune Fires – Cause

Comparison

2010 – 2017 (31)

- Undetermined = 9
- **Fireworks = 16**
- Machinery = 1
- Discard smoldering = 1
- Debris = 3
- Vehicle = 1

2018 – 2025 (30)

- Undetermined = 13
- **Fireworks = 4**
- Machinery = 4
- Discard smoldering = 1
- Debris = 5
- Weed Burning = 2
- Incendiary = 1



Fire Behavior

Photo obtained from the Chinook Observer.

Photo is looking NE from the beach, south of Bay Avenue Approach



Fire Behavior

Photo obtained from the Chinook Observer.

Photo is looking NE from the beach, south of Bay Avenue Approach



Fire Behavior

Picture taken from Command Post,
as first flames arrive at Bay Avenue

Fire Behavior



Fire Behavior References

- Fire Behavior Video

- <https://www.youtube.com/watch?v=Qk1RokHn4E4>
- <https://www.youtube.com/watch?v=bfUVGRSzIE8>
- <https://www.youtube.com/watch?v=skVPTNPEwV4>

Fire Lane Project

- To improve fire prevention messaging and establish reliable emergency vehicle access to the ocean front dunes and beach.
- Establish additional clearly recognized ingress / egress points for County operations and fire department emergency access.
- Reducing personal property damage made by emergency vehicles driving across private property and reinforcing private vehicle prohibitions in the dunes.
- Support neighborhoods by reinforcing safety messaging and limit nuisance related matters



Fire Lane Project

- Identify strategically located dune access points on County owned property
- Discuss project with impacted neighborhoods
- Conduct spot treatments to establish clear fire lanes (if necessary)
- Place a locked gate, accessible to both the County and Fire District, for emergency access
- Improve signage promoting fire safety in the dunes and reinforcing no private vehicle access
- Re-locate ecology blocks to prevent cars by-passing fire lane gate and/or accessing from the beach (if necessary)

Blocking or unsafe parking practices



201st Lane (Example)

- Ecology blocks impede fire department access
- County drainage areas
- Dune fire occurred on 7/3/2026 that impeded access to fire area



Access Gates and/or Signage

- 106th Lane
- 145th or 146th Lane (Sign only)
- 152nd Lane
- 170th Place
- 177th Street
- 184th Place
- 199th Place
- 201st Lane
- 207th Street
- 210th Place
- 229th Place
- 232nd Lane
- 240th Street
- 247th Place
- 254th Place
- 265th Lane
- 274th Place
- 280th Street
- 295th Street
- 315th Street