



AGENDA

Port of Bandon
Regular Commission
August 27th 2026, 5:00pm
Bandon Public Library
www.portofbandon.com/meetings
for details

			PAGES
A.	Call To Order	Commissioners	Verbal
B.	Roll Call by Secretary-Treasurer	Commissioners	Verbal
C.	Consent Calendar		
i.	July Minutes	Commissioners	A-C
ii.	July Financials	Commissioners	D-N
D.	Presiding Officer and Commissioner Comments		
E.	Ordinances and Resolutions		
F.	Public Contracts and Purchasing		
i.	Authorization for Truck Purchase	Shawn/Commissioners	1-6
G.	Public Hearings		
H.	Port Directors Report		
i.	Coquille Indian Tribe Nasomah Memorial Property Transfer	Jeff/Commissioners	Verbal
ii.	Federal Projects and Funding Updates	Jeff/Commissioners	7-10
iii.	New Harbor Office Ribbon Cutting Ceremony	Jeff/Commissioners	Verbal
iv.	Redmon Pond Trail Route Expansion Update	Jeff/Commissioners	11
v.	Prosper Property Boat Yard Concept	Jeff/Commissioners	12-13
vi.	Pigeon Management	Jeff/Commissioners	14-19
I.	Port Staff Reports		
i.	Boater Updates (Stryker, Marauder, Marina Report)	Shawn/Commissioners	20
ii.	New Harbor Office Building Updates	Shawn/Commissioners	Verbal
iii.	SW First Street curb hazard options	Shawn/Commissioners	Verbal
iv.	Tsunami Ball Plan	Shawn/Commissioners	Verbal
J.	Public Comment		
K.	Other Misc Matters		
L.	Executive Session		
M.	Adjournment		

NOTES:

Port of Bandon
Regular Commission Meeting
July 23, 2026, 5:00 pm
Bandon Public Library
Bandon, OR

Commissioners Present: Reg Pullen, Donny Goddard, Don Starbuck, Wayne Butler, and Lori Osborne (via Zoom)

Staff: Jeff Griffin - Port Manager, Josh Adamson – Port Specialist, Kathy Reed – Finance Director and Shawn Winchell - Harbormaster

Guests: None

Commissioner Pullen opened the meeting at 5:00pm

Commissioner Pullen asked for a motion to approve the consent calendar. **A motion was made by Commissioner Butler. Commissioner Starbuck seconded the motion. Motion passes unanimously.**

Kathy verbally presented an annual contract for auditing services by Grimstad and Associates. Grimstad and Associates have been the ports auditor for years. This year's contract renewal has an increase from \$10,000 last year to \$11,400 this year. **Commissioner Goddard made a motion to approve the contract renewal with Grimstad and Associates in the amount of \$11,400. Commissioner Starbuck approved. Motion passes unanimously.**

Director Report:

Discussion about possible ownership change to the Coquille Indian Tribe for the Nasomah Memorial property currently owned by the Port. In 2024 the Port worked with the Tribe and created a 99-year lease of the property. Griffin now approached Commissioners about the cultural significance of the property to the Tribe and suggested it would be in the best interest of the Port and Tribe to now transfer ownership to the Coquille Indian Tribe. Per a question from Commissioner Butler there is no monetary value in the Ports long term ownership, only potential liability. After discussion and further questions and comments **Commissioner Osborne made a motion to direct staff to proceed with the transfer of ownership of the Nasomah Memorial property over to the Coquille Indian Tribe. Commissioner Butler seconded. Motion passes unanimously.** Commissioner Osborne would like to see a press release or coordinated event with the Tribe in celebration of the transfer.

Griffin was invited to join a team of sea urchin aqua culturists from California and Oregon on a Sea Grant funded trip to Japan under a Sea Urchin Roe Enhancement Knowledge Exchange mission in September. The trip will last about 10 days. Griffin asked for the support of the Commissioners to represent the Port on the venture. **Commissioner Goddard made a motion to approve the trip to Japan for Griffin. Commissioner Starbuck seconded. Motion passed unanimously.**

Griffin reported on a letter from Maddison Higginbotham from Accelerate Strategies, a lobbyist for Oregon Ports, detailing language in WRDA 2026 that would direct funding for dredging outside of the navigational channel to include areas adjacent to or accessible by a federal navigation project. Last week the Water Resources Development Act was passed by the Senate Environment and Public Works Committee. Now it awaits approval on the Senate floor.

The Yaquina was recently here for one project day. Griffin shared recent hydro surveys of the channel and Commissioners discussed buildup areas.

The Port received the Aquatic and Botanical Resource Assessment from SHN regarding Redmon Pond with a determination of no wetlands or protected plant species in the proposed trail corridor. The report also included a preliminary 30 percent trail design.

A new flagpole is set to be installed at the marina in the next few weeks. The flagpole for the Coast Guard building is a special order and will take longer. The company was a little behind schedule with many orders for the 250th anniversary of the United States.

Staff Report:

Shawn reported that the Marauder, which was seized by the Port, is set to cast off to Charleston in the next week. A signed document by the owner will revert ownership back once the vessel has left the marina.

Tongue and groove ceiling and window trim have been installed in the new office. The exterior painting and handrails are happening soon.

On Monday the roof will be getting replaced on the Loft by Pioneer Roofing.

Last week a woman tripped and fell on the southside of the fisheries building. There is a raised curb that spans from that property all the way to the marina. Most of the curb is painted either red or yellow by the City however, this particular section is not painted. Commissioners discussed jurisdiction and solutions with staff.

A local resident would like to donate a Tsunami Ball to the Port. It's a capsule designed for two people to survive a tsunami. The Port will accept the donation and place next to the preparedness sign on the SE end of the fisheries building parking lot. Commissioner Osborne suggested an annual lottery be held for tickets!

Kathy informed Commissioners that with a staff member taking paid leave, a part time, temporary hire was needed. Interviews were conducted with 4 candidates, and Holly Von Damm was offered the position. The job will be starting August 3rd. She will work 20 hours a week for a 3-6 month period.

Commissioner Goddard inquired about the Ports rules on liveaboards. Staff clarified that resident boat owners can stay overnight up to 3 days per week and 10 days per month. Transient boat owners touring the coast are allowed longer stays (up to 30).

Public Comment:

None

Regular meeting was adjourned at 5:53pm

Respectfully submitted by

Joshua Adamson

DRAFT

3:28 PM

07/20/26

Port of Bandon
Reconciliation Summary
10100 - Banner Bank Checking, Period Ending 06/30/2026

	<u>Jun 30, 26</u>
Beginning Balance	42,339.02
Cleared Transactions	
Checks and Payments - 43 items	-98,627.32
Deposits and Credits - 18 items	102,318.61
	<u>3,691.29</u>
Total Cleared Transactions	3,691.29
Cleared Balance	<u>46,030.31</u> ✓
Uncleared Transactions	
Checks and Payments - 9 items	-19,943.07
Total Uncleared Transactions	<u>-19,943.07</u>
Register Balance as of 06/30/2026	<u>26,087.24</u>
New Transactions	
Checks and Payments - 27 items	-74,226.85
Deposits and Credits - 7 items	60,976.90
	<u>-13,249.95</u>
Total New Transactions	-13,249.95
Ending Balance	<u>12,837.29</u>

D



10 South First Avenue
P.O. Box 907
Walla Walla, WA 99362-0265
bannerbank.com

Statement of Account

Statement Date 06/30/26

Page 1 of 3

Account Number XXXXXXXXXXXXX

(509) 527-3636 | (800) 272-9933 Toll-Free

Port of Bandon
390 1st St SW
Bandon OR 97411

ONLINE & MOBILE BANKING

**Bank anywhere.
Count on us
everywhere.**

Bank anywhere. Count on us everywhere.

Manage your money from anywhere with online and mobile banking. Pay bills, manage your debit card, deposit checks and track your finance - all with powerful security features for added peace of mind. Enroll in Online & Mobile Banking today: bannerbank.com/online-banking.

SUMMARY OF ACCOUNTS

Complete Public Funds Checking XXXXXXXXXXXXX \$46,030.31 *SL*

CHECKING ACCOUNT

XXXXXXXXXXXX

Complete Public Funds Checking

Account Title: Port of Bandon		Statement Dates		6/01/26 thru 6/30/26
Account Number	XXXXXXXXXXXX	Days in the statement period	30	
Previous Balance	42,339.02	Average Ledger	49,996.61	
15 Deposits/Credits	102,318.61	Average Collected	49,484.66	
10 Debits	41,890.90			
33 Checks	56,736.42			
Service Charge	.00			
Interest Paid	.00			
Current Balance	46,030.31			

E

3:08 PM
07/15/26

Port of Bandon
Reconciliation Summary
10110 · Banner Bank Merchant, Period Ending 06/30/2026

	Jun 30, 26
Beginning Balance	7,752.25
Cleared Transactions	
Checks and Payments - 3 items	-22,618.02
Deposits and Credits - 5 items	19,129.96
Total Cleared Transactions	-3,488.06
Cleared Balance	4,264.19
Uncleared Transactions	
Deposits and Credits - 1 item	2,867.13
Total Uncleared Transactions	2,867.13
Register Balance as of 06/30/2026	7,131.32
New Transactions	
Deposits and Credits - 1 item	12,693.38
Total New Transactions	12,693.38
Ending Balance	19,824.70

✓ *JS*

F



10 South First Avenue
P.O. Box 907
Walla Walla, WA 99362-0265
bannerbank.com

Statement of Account

Statement Date 06/30/26
Page 1 of 2
Account Number XXXXXXXXXXXXXXXX
(509) 527-3636 | (800) 272-9933 Toll-Free

Port of Bandon
Merchant Services Account
390 1st St SW
Bandon OR 97411

ONLINE & MOBILE BANKING

**Bank anywhere.
Count on us
everywhere.**

Bank anywhere. Count on us everywhere.

Manage your money from anywhere with online and mobile banking. Pay bills, manage your debit card, deposit checks and track your finance - all with powerful security features for added peace of mind. Enroll in Online & Mobile Banking today: bannerbank.com/online-banking.

SUMMARY OF ACCOUNTS

Basic Public Funds Checking XXXXXXXXXXXXXXXX \$4,264.19 ✓

CHECKING ACCOUNT

XXXXXXXXXXXXX

Basic Public Funds Checking

Account Title: Port of Bandon

Merchant Services Account

Account Number	XXXXXXXXXXXXX
Previous Balance	7,752.25
5 Deposits/Credits	19,129.96
3 Debits	22,618.02
Service Charge	.00
Interest Paid	.00
Current Balance	4,264.19

Statement Dates	6/01/26 thru 6/30/26
Days in the statement period	30
Average Ledger	8,681.67
Average Collected	8,681.67

G

2:19 PM

07/16/26

Port of Bandon Reconciliation Summary

10120 - LGIP Local Gov Investment Pool, Period Ending 06/30/2026

	Jun 30, 26
Beginning Balance	811,456.63
Cleared Transactions	
Checks and Payments - 2 items	-183,117.00
Deposits and Credits - 3 items	148,829.05
Total Cleared Transactions	-34,287.95
Cleared Balance	777,168.68
Register Balance as of 06/30/2026	777,168.68
New Transactions	
Checks and Payments - 1 item	-50,000.00
Total New Transactions	-50,000.00
Ending Balance	727,168.68

✓ 82

+

12:01 PM

07/16/26

**Port of Bandon
Reconciliation Summary**

10130 - Banner Bank PEDF Account, Period Ending 06/30/2026

	<u>Jun 30, 26</u>
Beginning Balance	1,473.74
Cleared Transactions	
Deposits and Credits - 3 items	<u>3,361.10</u>
Total Cleared Transactions	<u>3,361.10</u>
Cleared Balance	<u><u>4,834.84</u></u> ✓
Register Balance as of 06/30/2026	4,834.84
Ending Balance	4,834.84

J



10 South First Avenue
P.O. Box 907
Walla Walla, WA 99362-0265
bannerbank.com

Statement of Account

• Statement Date 06/30/26
Page 1 of 2
Account Number XXXXXXXXXXXX
(509) 527-3636 | (800) 272-9933 Toll-Free

Port of Bandon
390 1st St SW
Bandon OR 97411

ONLINE & MOBILE BANKING

**Bank anywhere.
Count on us
everywhere.**

Bank anywhere. Count on us everywhere.

Manage your money from anywhere with online and mobile banking. Pay bills, manage your debit card, deposit checks and track your finance - all with powerful security features for added peace of mind. Enroll in Online & Mobile Banking today: bannerbank.com/online-banking.

SUMMARY OF ACCOUNTS

Basic Public Funds Checking

XXXXXXXXXXXX

\$4,834.84 ✓

CHECKING ACCOUNT

XXXXXXXXXXXX

Basic Public Funds Checking

Account Title: Port of Bandon

Account Number

XXXXXXXXXXXX

Previous Balance

1,473.74

3 Deposits/Credits

3,361.10

Debits

.00

Service Charge

.00

Interest Paid

.00

Current Balance

4,834.84

Statement Dates

6/01/26 thru 6/30/26

Days in the statement period

30

Average Ledger

2,963.55

Average Collected

2,632.07

K

PORT OF BANDON
CHECK TRANSACTIONS



June 2026

DATE	CK #	NAME	AMOUNT
6/3/26	6910	Vicki Affatati	(\$2,460.52)
6/3/26	6911	Laura Nutter	(\$1,073.86)
6/3/26	6912	Brushworks LLC	(\$750.00)
6/11/26	6913	Bandon Supply Inc.	(\$1,329.31)
6/15/26	6914	Bandon Ace Hardware	(\$261.91)
6/15/26	6915	Gold Beach Lumber	(\$4,987.22)
6/15/26	6916	Coos County Solid Waste	(\$60.00)
6/15/26	6917	Englund Marine Supply	(\$21.40)
6/15/26	6918	Bayshore Paints	(\$283.60)
6/15/26	6919	Golder's Bay Area Napa	(\$48.95)
6/15/26	6920	Coastal Paper	(\$607.03)
6/15/26	6921	Bnt Promotional Products	(\$1,361.38)
6/15/26	6922	Bandon Chamber of Commerce	(\$380.00)
6/15/26	6923	Special District Ins Services	(\$10,964.38)
6/15/26	6924	Les County Sanitary Service	(\$38.28)
6/15/26	6925	Oregon Overseas Timber Co. Inc.	(\$1,184.54)
6/15/26	6926	PERS	(\$15.00)
6/15/26	6927	Tyree Oil	(\$696.88)
6/15/26	6928	Country Media	(\$499.64)
6/15/26	6929	south Coast Septic	(\$215.00)
6/15/26	6930	US Relay	(\$1,188.00)
6/15/26	6931	City of Bandon	(\$3,915.49)
6/15/26	6932	Sherwin Williams	(\$128.80)
6/15/26	6933	Brian Foley	(\$9,300.81)
6/15/26	6934	Coos County Property Tax	(\$184.44)
6/15/26	6936	Oregon Dept of Agriculture	(\$52.00)
			(\$42,008.44)

L

PORT OF BANDON
BALANCE SHEET

June 2026



CURRENT ASSETS	GENERAL FUND	CAPITAL FUND	RESERVE FUND	ALL FUNDS
Banner Bank Checking Account	\$26,087.24	\$0.00	\$0.00	\$26,087.24
Banner Bank Merchant Account	\$7,131.32	\$0.00	\$0.00	\$7,131.32
Banner Bank PEDF Account	\$0.00	\$0.00	\$4,834.84	\$4,834.84
LGIP Investment Account	\$181,685.76	\$263,765.08	\$331,717.84	\$777,168.68
Petty Cash	\$100.00	\$0.00	\$0.00	\$100.00
TOTAL CURRENT ASSETS	\$215,004.32	\$263,765.08	\$336,552.68	\$815,322.08

EQUITY	GENERAL FUND	CAPITAL FUND	RESERVE FUND	ALL FUNDS
Fund Balance, Beg of Year	\$275,432.82	\$437,690.49	\$202,140.80	\$915,264.11
Current Net Income	(\$60,428.50)	(\$173,925.41)	\$134,411.88	(\$99,942.03)
TOTAL EQUITY	\$215,004.32	\$263,765.08	\$336,552.68	\$815,322.08

M

PORT OF BANDON

GENERAL FUND BUDGET

Fiscal Year 2025 - 2026



REVENUE ACCOUNT	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
Bank Interest	45,000.00	2,541.80	36,733.02	8,266.98	18.37%
Misc. Revenue	56,000.00	2,460.86	85,800.63	(29,800.63)	-53.22%
Moorage	75,000.00	11,519.96	85,810.75	(10,810.75)	-14.41%
Property Tax Collection	643,871.00	13,170.25	657,730.65	(13,859.65)	-2.15%
Rental Revenue	271,640.00	32,189.65	285,148.98	(13,508.98)	-4.97%
TOTAL REVENUE	1,091,511.00	61,882.52	1,151,224.03	(59,713.03)	-5.47%

PERSONNEL SERVICES	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
TOTAL MONTH	596,901.00	50,341.83	529,555.85	67,345.15	11.28%

MATERIALS * SERVICES	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
Office Supplies	15,000.00	516.77	6,216.62	8,783.38	58.56%
Printing & Advertising	5,000.00	499.64	3,047.38	1,952.62	39.05%
Building Maintenance	35,000.00	10,364.94	64,886.09	(29,886.09)	-85.39%
Dock Maintenance	20,000.00	208.20	12,608.33	7,391.67	36.96%
General Operations	20,000.00	1,282.00	25,255.26	(5,255.26)	-26.28%
Grounds Maintenance	20,000.00	1,526.06	22,200.59	(2,200.59)	-11.00%
Utilities & Phone	25,000.00	2,314.24	22,358.18	2,641.82	10.57%
Commission Expenses	10,000.00	5.18	284.28	9,715.72	97.16%
Legal Fees	10,000.00	0.00	3,144.00	6,856.00	68.56%
Audit	15,000.00	0.00	12,010.00	2,990.00	19.93%
Insurance	105,000.00	(5,569.56)	100,126.96	4,873.04	4.64%
Dues & Fees	20,000.00	1,195.06	24,000.52	(4,000.52)	-20.00%
Miscellaneous	25,000.00	7,622.44	19,818.16	5,181.84	20.73%
Employee Expenses	15,000.00	667.01	5,786.15	9,213.85	61.43%
Marketing	6,000.00	2,549.38	4,849.38	1,150.62	19.18%
Boardwalk Art Show	7,500.00	0.00	0.00	7,500.00	100.00%
Taxes	5,000.00	184.44	3,899.37	1,100.63	22.01%
Professional Fees	20,000.00	0.00	0.00	20,000.00	100.00%
Contract Grounds Services	100,358.00	0.00	0.00	100,358.00	100.00%
TOTAL MATERIALS & SERVICES	478,858.00	23,365.80	330,491.27	148,366.73	30.98%

CAPITAL OUTLAY	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
Equipment	30,219.00	0.00	45,726.20	(15,507.20)	-51.32%
Building Expenses	15,000.00	0.00	0.00	15,000.00	100.00%
Property Improvements	70,005.00	0.00	171,239.25	(101,234.25)	-144.61%
TOTAL CAPITAL OUTLAY	115,224.00	0.00	216,965.45	(101,741.45)	-88.30%

TRANSFERS	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
Transfer to Reserve Fund	133,117.00	0.00	133,117.00	0.00	0.00%
Transfer to Capital Fund	0.00	0.00	0.00	0.00	0.00%
TOTAL TRANSFERS	133,117.00	0.00	133,117.00	0.00	0.00%

SUMMARY	BUDGET	JUNE	TOTAL YEAR	\$ REMAINING	% REMAINING
Total Revenue	1,365,253.82	61,882.52	1,151,224.03	214,029.79	15.68%
Total Expenses	1,324,100.00	73,707.63	1,210,129.57	113,970.43	8.61%
TOTAL NET REVENUE	41,153.82	(11,825.11)	(58,905.54)	328,000.22	24.77%

PNW Luxury Cars Tacoma

8025 S Tacoma Way
Lakewood, WA 98499
<https://www.pnwluxtacoma.com>

Sales: 2533025505

2015 RAM 1500 Tradesman



Body Style: 2D Standard

Cab

Model Code: DS6L62

Engine: 8 Cyl - 5.7 L

Transmission: 6-Speed

Automatic

Drive Type: 4WD

Ext. Color: Bright White

Clearcoat

Int. Color: Diesel

Gray/Black

Mileage: 65408

VIN #:

3C6JR7DT8FG604480

Stock #: P3080

This 2015 Ram 1500 Tradesman is a well-equipped work truck ready to take on your toughest jobs. With its powerful HEMI 5.7L V8 engine, 4-wheel drive, and impressive towing capacity, this Ram is a rugged and capable companion.- DOCUMENTED SERVICE RECORDS- ONE OWNER- WEST COAST OWNEDThe Tradesman trim level comes loaded with practical features, including:- Protection Group (Transfer Case Skid Plate, Front Suspension Skid Plate, Tow Hooks)- Power & Remote Entry Group (Power Windows, Power Mirrors, Remote Keyless Entry)- Popular Equipment Group (Satellite Radio, Floor Mats, Carpet Flooring)- 3.55 Rear Axle Ratio- Anti-Spin Differential Rear Axle- Power Black Trailer Tow Mirrors- Trailer Brake ControlInside, you'll find the Uconnect 5.0 infotainment system with a 5-inch touchscreen, Bluetooth® connectivity, and a rearview camera. The 40/20/40 split bench seat provides versatile seating and storage options for work or play.This 2015 Ram 1500 Tradesman is an exceptional value in a hard-working, well-equipped truck. Schedule a test drive today and experience its capability and comfort firsthand.

Standard Equipment

MECHANICAL

- 3.21 Rear Axle Ratio
- GVWR: 6,600 lbs
- 50 State Emissions
- Electronic Transfer Case
- Part-Time Four-Wheel Drive
- 730CCA Maintenance-Free Battery
- 160 Amp Alternator
- Trailer Wiring Harness
- Class IV Towing Equipment -inc: Hitch and Trailer Sway Control
- 1730# Maximum Payload
- HD Gas-Pressurized Shock Absorbers
- Front And Rear Anti-Roll Bars
- Electric Power-Assist Steering
- Single Stainless Steel Exhaust
- 32 Gal. Fuel Tank
- Auto Locking Hubs
- Short And Long Arm Front Suspension w/Coil Springs
- Solid Axle Rear Suspension w/Coil Springs
- 4-Wheel Disc Brakes w/4-Wheel ABS, Front Vented Discs, Brake Assist and Hill Hold Control

EXTERIOR

- Wheels: 17" x 7" Steel
- Tires: P265/70R17 BSW AS
- Regular Box Style
- Spray-In Bed Liner
- Wheels w/Hub Covers
- Goodyear Brand Tires
- Steel Spare Wheel
- Full-Size Spare Tire Stored Underbody w/Crankdown
- Black Front Bumper w/Black Rub Strip/Fascia Accent
- Black Rear Step Bumper
- Black Side Windows Trim and Black Front Windshield Trim
- Black Door Handles
- Black Manual Side Mirrors w/Manual Folding
- Fixed Rear Window
- Light Tinted Glass
- Variable Intermittent Wipers
- Galvanized Steel/Aluminum Panels
- Front License Plate Bracket
- Black Grille
- Active Grille Shutters
- Tailgate Rear Cargo Access
- Manual Tailgate/Rear Door Lock
- Cargo Lamp w/High Mount Stop Light
- Auto On/Off Reflector Halogen Headlamps w/Delay-Off
- Tip Start

ENTERTAINMENT

- Radio: Uconnect 3.0 AM/FM
- Radio w/Clock and Radio Data System
- Fixed Antenna
- 6 Speakers
- Media Hub (USB, AUX)

2

INTERIOR

- 4-Way Driver Seat -inc: Manual Recline and Fore/Aft Movement
- 4-Way Passenger Seat -inc: Manual Recline and Fore/Aft Movement
- Manual Tilt Steering Column
- Front Cupholder
- Cruise Control w/Steering Wheel Controls
- Manual Air Conditioning
- Glove Box
- Interior Trim -inc: Deluxe Sound Insulation, Metal-Look Instrument Panel Insert and Chrome/Metal-Look Interior Accents
- Full Cloth Headliner
- Urethane Gear Shifter Material
- Heavy Duty Vinyl 40/20/40 Split Bench Seat
- Day-Night Rearview Mirror
- 2 12V DC Power Outlets
- Fade-To-Off Interior Lighting
- Full Vinyl/Rubber Floor Covering
- Cab Mounted Cargo Lights
- Electronic Shift
- 40/20/40 Split Bench Seat
- Instrument Panel Bin, Dashboard Storage, Driver And Passenger Door Bins
- Delayed Accessory Power
- Manual 1st Row Windows
- Driver Information Center
- Analog Appearance
- Manual Adjustable Front Head Restraints
- Front Armrest w/Three Cupholders
- Sentry Key Immobilizer

SAFETY

- Electronic Stability Control (ESC)
- ABS And Driveline Traction Control
- Side Impact Beams
- Dual Stage Driver And Passenger Seat-Mounted Side Airbags
- Tire Specific Low Tire Pressure Warning
- Dual Stage Driver And Passenger Front Airbags
- Curtain 1st Row Airbags
- Airbag Occupancy Sensor
- Outboard Front Lap And Shoulder Safety Belts -inc: Height Adjusters and Pretensioners

Technical Specifications**Engine**

- Engine Order Code: EZH
- Engine Order Code: ERB
- Engine Type: Regular Unleaded V-8
- Engine Type: Regular Unleaded V-6
- Displacement: 5.7 L/345
- Displacement: 3.6 L/220
- Fuel System: Sequential MPI
- SAE Net Horsepower @ RPM: 395 @ 5600
- SAE Net Horsepower @ RPM: 305 @ 6400

3

- SAE Net Torque @ RPM: 410 @ 3950
- SAE Net Torque @ RPM: 269 @ 4175
- Engine Oil Cooler: None
- Engine Oil Cooler: Regular Duty

Transmission

- Drivetrain: Four Wheel Drive
- Trans Order Code: DFL
- Trans Type: 8
- Trans Description Cont.: Automatic w/OD
- First Gear Ratio (:1): 4.71
- Second Gear Ratio (:1): 3.14
- Third Gear Ratio (:1): 2.11
- Fourth Gear Ratio (:1): 1.67
- Fifth Gear Ratio (:1): 1.28
- Sixth Gear Ratio (:1): 1.00
- Reverse Ratio (:1): 3.29
- Trans PTO Access: No
- Transfer Case Model: Electronic
- Transfer Case Power Take Off: No
- Seventh Gear Ratio (:1): 0.84
- Eighth Gear Ratio (:1): 0.67

Mileage

- Fuel Economy Est-Combined (MPG): 19
- EPA Fuel Economy Est - City (MPG): 16
- EPA Fuel Economy Est - Hwy (MPG): 23

Electrical

- Cold Cranking Amps @ 0° F (Primary): 730
- Cold Cranking Amps @ 0° F (2nd): 730
- Maximum Alternator Capacity (amps): 160

Weight Information

- Base Curb Weight (lbs): 4874
- Gross Axle Wt Rating - Front (lbs): 3900
- Gross Axle Wt Rating - Rear (lbs): 3900
- Curb Weight - Front (lbs): 2820
- Curb Weight - Rear (lbs): 2053
- Gross Vehicle Weight Rating Cap (lbs): 6600
- Gross Combined Wt Rating (lbs): 9850

Trailer

- Dead Weight Hitch - Max Trailer Wt. (lbs): 4660
- Dead Weight Hitch - Max Tongue Wt. (lbs): 466
- Wt Distributing Hitch - Max Trailer Wt. (lbs): 4660
- Wt Distributing Hitch - Max Tongue Wt. (lbs): 466
- Maximum Trailering Capacity (lbs): 4660

Suspension

- Suspension Type - Front: Short And Long Arm
- Suspension Type - Rear: Multi-Link
- Axle Type - Front: Independent
- Axle Type - Rear: Rigid Axle
- Axle Capacity - Front (lbs): 3900
- Axle Capacity - Rear (lbs): 3900
- Axle Ratio (:1) - Front: 3.21
- Axle Ratio (:1) - Rear: 3.21

Brakes

- Brake Type: 4-Wheel Disc
- Brake ABS System: 4-Wheel
- Brake ABS System (Second Line): 4-Wheel
- Disc - Front (Yes or): Yes
- Disc - Rear (Yes or): Yes
- Front Brake Rotor Diam x Thickness (in): 13.2
- Rear Brake Rotor Diam x Thickness (in): 13.8
- Drum - Rear (Yes or):
- Rear Drum Diam x Width (in):

Tires

- Front Tire Order Code: TTM
- Rear Tire Order Code: TTM
- Spare Tire Order Code:
- Front Tire Size: P265/70SR17
- Rear Tire Size: P265/70SR17
- Spare Tire Size: Full-Size
- Front Tire Capacity (lbs): 4608
- Rear Tire Capacity (lbs): 4608
- Revolutions/Mile @ 45 mph - Front: 656
- Revolutions/Mile @ 45 mph - Rear: 656

Wheels

- Front Wheel Size (in): 17 X 7
- Rear Wheel Size (in): 17 X 7
- Spare Wheel Size (in): Full-Size
- Front Wheel Material: Styled Steel
- Rear Wheel Material: Styled Steel
- Spare Wheel Material: Steel

Steering

- Steering Type: Rack-Pinion
- Turning Diameter - Curb to Curb (ft): 45.3

Fuel Tank

- Fuel Tank Capacity, Approx (gal): 32

Exterior Dimensions

- Wheelbase (in): 140
- Length, Overall (in): 231
- Width, Max w/o mirrors (in): 79.4
- Height, Overall (in): 75
- Overhang, Rear w/o bumper (in): 50.4
- Cab to Axle (in): 56.9

- Ground to Top of Load Floor (in): 34.9
- Ground Clearance, Front (in): 8.6
- Ground Clearance, Rear (in): 8.6

Cargo Area Dimensions

- Cargo Box Length @ Floor (in): 98.3
- Cargo Box Width @ Top, Rear (in): 66.4
- Cargo Box Width @ Floor (in): 66.4
- Cargo Box Width @ Wheelhousings (in): 51
- Cargo Box (Area) Height (in): 20.2
- Tailgate Width (in): 60.4
- Cargo Volume (ft³): 74.7

Interior Dimensions

- Passenger Capacity: 3
- Front Head Room (in): 39.9
- Front Leg Room (in): 41
- Front Shoulder Room (in): 66
- Front Hip Room (in): 62.9

Summary

- Vehicle Name: Ram 1500
- Body Style: Regular Cab
- Body Code: T

Emissions

- Tons/yr of CO2 Emissions @ 15K mi/year: 9.3

Popular Equipment Group|Power & Remote Entry Group|Protection Group|Quick Order Package 25B Tradesman|Tradesman Package|6 Speakers|AM/FM radio|Charge Only Remote USB Port|Integrated Voice Command w/Bluetooth®|Media Hub (USB, AUX)|Radio data system|Radio: Uconnect 3.0 AM/FM|Radio: Uconnect 5.0 AM/FM/BT|SIRIUSXM Satellite Radio|Air Conditioning|Power Locks|Power steering|Power Windows w/Front One-Touch Down|Tip Start|Traction control|4-Wheel Disc Brakes|ABS brakes|Dual front impact airbags|Dual front side impact airbags|Front anti-roll bar|Front wheel independent suspension|Low tire pressure warning|Occupant sensing airbag|Overhead airbag|Rear anti-roll bar|Remote Keyless Entry w/All-Secure|Brake assist|Electronic Stability Control|Delay-off headlights|Fully automatic headlights|Speed control|Anti-Spin Differential Rear Axle|Active Grille Shutters|Black Exterior Mirrors|Exterior Mirrors Courtesy Lamps|Exterior Mirrors w/Heating Element|Exterior Mirrors w/Supplemental Signals|Power Black Trailer Tow Mirrors|Power Heated Fold-Away Mirrors|Rear step bumper|Trailer Tow Mirrors|1-Year SiriusXM Radio Service|5.0" Touchscreen Display|Carpet Floor Covering|Driver door bin|Electronic Shift|For More Info, Call 800-643-2112|Front Floor Mats|GPS Antenna Input|Manufacturer's Statement of Origin|No Satellite Coverage w/AK/HI|Overhead Console|Rear View Mirror w/Microphone|Tachometer|Temperature & Compass Gauge|Tilt steering

PNWA INFRASTRUCTURE PROJECTS



PNWA supports the following infrastructure projects that enhance the region's economy and environment

NAVIGATION PROJECTS

Breakwaters and Jetties. Support annual maintenance funding for breakwaters and jetties to preserve function, reduce degradation, and reduce long term rehabilitation costs.

Columbia and Lower Willamette River. Support robust funding to maintain the Lower Columbia River to -43' and the Mouth of the Columbia River at -55'. Support development, implementation, and funding of the 20-year plan to manage sediment on the Lower Columbia River. Support full Corps funding for the Lower Columbia River confined aquatic placement structures for implementation of the 20-year dredge material management plan (DMMP) to ensure deep draft navigation on the Lower Columbia River.

Lower Columbia and Willamette River Chart Updates. Continue to support NOAA funding for higher resolution electronic navigation chart updates to 1:12,000 scale in the Lower Columbia and Willamette Rivers and 1:22,000 scale in the Upper Columbia River above the I-5 Bridge. This includes charting accurate bridge clearances and development of pictorial representations (PICREPS) of bridges with accurate widths of clearance heights to improve safety of navigation on the Lower Columbia and Willamette Rivers. Provide support to integrate new NOAA survey data into portable pilot units.

Columbia River pile dike system. Support rehabilitation of the pile dike system between the Mouth of the Columbia River and Bonneville Dam to reduce dredging, increase channel stability, create/maintain beneficial fish habitat, and increase bank protection.

Columbia River turning basins. Continued support for federal funding for deepening and maintenance of turning basins, including deepening the Longview Turning Basin and establishment and maintenance of a federally authorized turning basin at Lower Martin Bar river mile 77 (Kalama), as well as construction of and dredging for the two stern anchor buoys.

Columbia River anchorages. Work with Corps and Coast Guard to support designation of additional anchorage locations as needed. Support deepening and maintenance of designated federal anchorages, and installation of stern buoys to enhance navigation safety and efficiency.

Columbia/Snake River inland locks. Support federal funding for the eight navigation locks on the Columbia Snake River System to fully maintain these projects for maximum efficiency.

Dredge OREGON Replacement. Associated with the Columbia and Lower Willamette River program, support funding for replacement of the dredge OREGON which will help assure the continuation of reliable and cost-effective maintenance dredging of the Lower Columbia River into the future.

Dredge ESSAYONS Replacement. Support U.S. Army Corps of Engineers replacement of the Dredge ESSAYONS.

Marine Highway M-84 navigation. Maintain and define the federal 14' navigation channel, river flows, and minimum operating pool as needed for safe and efficient navigation. Support establishment of federally authorized turning basins to ensure barge and cruise ship access at ports and terminals and support navigation chart updates.

Columbia/Snake dolphins. Support funding for refurbishment and/or replacement of dolphins located on the inland system. Specific location includes Ft. Rains just above Bonneville Dam.

Abandoned and derelict vessels. Support federal funding to assess, remove and dispose of abandoned or derelict vessels that pose a threat to safe and efficient navigation.

I-5 Interstate Bridge Replacement. To prevent impacts to navigation on the Columbia River Channel, support seismic resiliency of the I-5 corridor and the I-5 Interstate Bridge Replacement.

NAVIGATION PROJECTS (continued)

NOAA Weather Service staffing. Support for funding the Portland Northwest Weather Service forecasting office and service for the Northwest region to ensure adequate staffing and coverage for the Columbia River navigation system. This is critical through the winter months to keep commerce moving.

NOAA infrastructure and technology. Support funding for repair and replacement of NOAA weather sensors including weather buoys, doppler radar and shoreside wind sensors to provide accurate data to improve the safety of mariners.

NOAA PORTS system. Support navigation safety improvements such as installation and maintenance of a real-time Air Gap sensor on the Lewis and Clark Bridge, additional tide gauges on the Lower Columbia River, and three permanent river current velocity meters at Portland, Longview, and Astoria that are compatible with NOAA PORTS system.

SCRIPPS Buoys. Support U.S. Army Corps of Engineers funding of SCRIPPS buoys placement, maintenance, and forecasting for offshore weather data.

Puget Sound Dredged Material Management Program. Improve function of the Puget Sound DMMP to ensure it does not negatively impact the long-term viability of ports and marinas. Advocate the Puget Sound DMMP develop and implement a streamlined beneficial reuse characterization and approval to the DMMP.

Lake Washington Ship Canal, Seattle. Support continued funding for maintenance and 24/7 operations at the Lake Washington Ship Canal and Ballard Locks.

Cathlamet Bay Navigation Channel. Support regular maintenance dredging of the Cathlamet Bay Navigation Channel to its authorized depth of -34' MMLW and the permit needed to dredge a side channel off the Cathlamet Bay Navigation Channel to -18' MLLW to support access to the Twin Piers electric mobile boat hoist.

Westport Slough. Support regular channel maintenance of the Westport Slough to its authorized depth of -28 feet to ensure uninterrupted and ongoing operations of barging rock from Westport, Oregon to the Portland, Oregon and Vancouver, Washington area to support increased production and two new rock sales yards.

Northwest Seaport Alliance. Support funding to begin construction in FY2028 on the Seattle Harbor Navigation Improvement Project and support any maintenance needs in the Seattle Harbor.

Northwest Seaport Alliance. Support funding to begin construction in FY2028 on the Tacoma Harbor Navigation Improvement Project.

Port of Anacortes. Support feasibility efforts to demolish and replace Pier 61 to support drop frame barges and the marine highway serving the San Juan Islands and beyond.

Port of Anacortes. Support port clean energy projects across all of the Port's operational areas to reduce emissions and help foster adoption of new clean energy technologies to create a sustainable maritime transportation industry and workforce.

Port of Anacortes. Support the replacement of aging T Dock, which is a critical seafood landing port for commercial and tribal fisheries. This dock, provided as a free amenity, facilitates over \$14 million in commerce. Support the \$9.25 million in MARAD funding for reconfiguration and reconstruction of this important piece of infrastructure.

Port of Astoria. Support the dredging of the turning basin at Tansy Point Range and Central Waterfront facilities. Support permit modification to allow Central Waterfront dredging work windows to coincide with navigation channel and turning basin dredging.

Port of Astoria. Support development of marine terminal facilities at Pier 3 including infrastructure rehabilitation necessary to support 150-ton haulout equipment, additional moorage and environmental buildings/indoor work areas.

Port of Astoria. Support efforts to rehabilitate Pier 2 West and support the establishment of a mitigation bank which will facilitate the Pier 2 West rehabilitation and future Central Waterfront development.

NAVIGATION PROJECTS (continued)

Port of Astoria. Support funding to hire a contract dredge for the Central Waterfront including the cruise terminal, seafood processing facilities, and boatyard.

Port of Bandon (Coquille River). Support annual funding for critical maintenance dredging of the navigation channel to -20' maximum MLLW, benched sediment management area prism to -14' MLLW, and inclusion of step channel dredging at the entrance.

Port of Bandon (Coquille River). Support funding for critical maintenance repairs to sections of the north and south jetties at the mouth of the Coquille River.

Port of Bellingham. Support funding for dredging the Squalicum Harbor Inner Harbor to improve navigation and safety.

Port of Camas-Washougal. Support dredging permitting for the Port's 350-slip marina located along the Columbia River.

Port of Camas-Washougal. Support permitting for the future replacement of a 240' portion of the Port's breakwater dock, which will consist of a new dock and all new piling.

Port of Cascade Locks. Support funding efforts for electrical and sewer system upgrades at the cruise docks to enhance capacity, improve maritime energy efficiency, and optimize water management.

Port of Chinook. Support regular maintenance dredging of the navigation channel leading to the Port of Chinook and support efforts to obtain funding for marina dredging. Support \$2.7M federal funding for the Capital Marina Dredging Event.

Port of Chinook. Support efforts to obtain an alternative in-water dredge disposal site for marina dredging and relocate existing upland dredge material.

Port of Chinook. Support the development of a shoreline dredge material placement program in conjunction with the Pacific Conservation District to benefit the Chinook shoreline stability.

Port of Clarkston. Support the Corps' Tiered NEPA process and long term sediment management at the Confluence of the Lower Snake and Clearwater rivers and upgrades to infrastructure to slow sediment accumulation around port dock facilities to allow for better movement of cruise ships and tugs and/or explore relocation of key facilities for long term sustainability.

Port of Clarkston. Support maintenance dredging of the Lower Granite Pool on the Snake River on a more regular basis.

Port of Columbia. Support implementation of aging facilities and infrastructure upgrades and associated on-water improvements identified in the facilities plan for Lyons Ferry Marina. This includes constructing RV pull-thru sites and a new upland restroom, expanding the boat launch, and replacing a moorage dock.

Port of Columbia County. Support funding for Port Westward Industrial Park facilities and the resilience and modernization of the Beaver Dock.

Port of Edmonds. Support federal funding efforts for the North Portwalk and Seawall Reconstruction Project.

Port of Everett. Dredge the East Waterway Federal Navigation Channel to the authorized depth.

Port of Everett. Dredge the Snohomish River to its authorized width and depth.

Port of Everett. Support authorization to direct the Corps to assume Operations and Maintenance of the Boat Launch Connector Channel upon project completion.

Port of Garibaldi. Continue to support repair and maintenance projects for the Tillamook Bay Jetty system and support efforts to establish a stepped channel and dredging for the Tillamook Bay entrance federal channel to mitigate the effects of breaking surf on mariner safety.

WATER PROJECTS (continued)

Port of Walla Walla. Support \$10M Corps CAP Section 205 funding for Mill Creek Flood Risk Management Project to reduce flood risks and protect regional infrastructure.

Port of Walla Walla. Support the development of water and wastewater infrastructure to serve the Wallula Gap Industrial/Business Park and the Dodd Road Business Park. This will allow for treatment of process wastewater and allow for land application when suitable.

Port of Whitman County. Support the Palouse Basin Aquifer Committee's efforts to access a supplemental source of water to stabilize groundwater levels and meet the needs of the growing region relying on the Palouse Groundwater Basin.

ECONOMIC DEVELOPMENT AND TOURISM PROJECTS

Broadband Services. Support prioritization of port districts for federal funding for open access dark fiber infrastructure projects, 5G development, and to extend broadband services to Pacific Northwest residents, including in rural areas of the region.

East Columbia Basin Irrigation District. Support continued development of the Columbia Basin Project.

Port of Anacortes. Support recapitalization of aging docks at the Cap Sante Marina North Basin. These 600+ boat slips contribute to the \$10 million in local spending by boaters each year.

Port of Anacortes. Support a development of underutilized waterfront properties and realignment of the port's heavy haul route to achieve initiatives described in the Port's west basin master plan and support commerce.

Port of Astoria. Support efforts to develop cruise terminal infrastructure on Pier 1 and support funding for additional Customs and Border Protection equipment and personnel necessary for processing cruise passengers in a timely manner.

Port of Astoria. Support public/private development plans for the East Mooring Basin to provide a new causeway and moorage to be utilized by the commercial fishing fleet.

Port of Astoria. Support the development of a Byproduct Recovery and Innovation Center at the south end of Pier 2 to process water now being disposed of by seafood processors with potential expansion to process wastewater from other industry including but not limited to breweries and agriculture.

Port of Astoria. Support \$20M in funding for the design-build redevelopment of the East Mooring Basin including reconstruction of the East Mooring Basin Causeway and installation of new commercial and recreational fishing berths to ease the waiting list demand common across the region.

Port of Bandon (Coquille River). Support federal funding for critical housing renovation for the USCG SARDET and support federal funds for the restoration of the Coquille Lighthouse.

Port of Benton. Support infrastructure extensions to 1,641 industrial acres to expand advanced energy and manufacturing projects, research and companies.

Port of Camas-Washougal. Support continuing maintenance dredging of the marina.

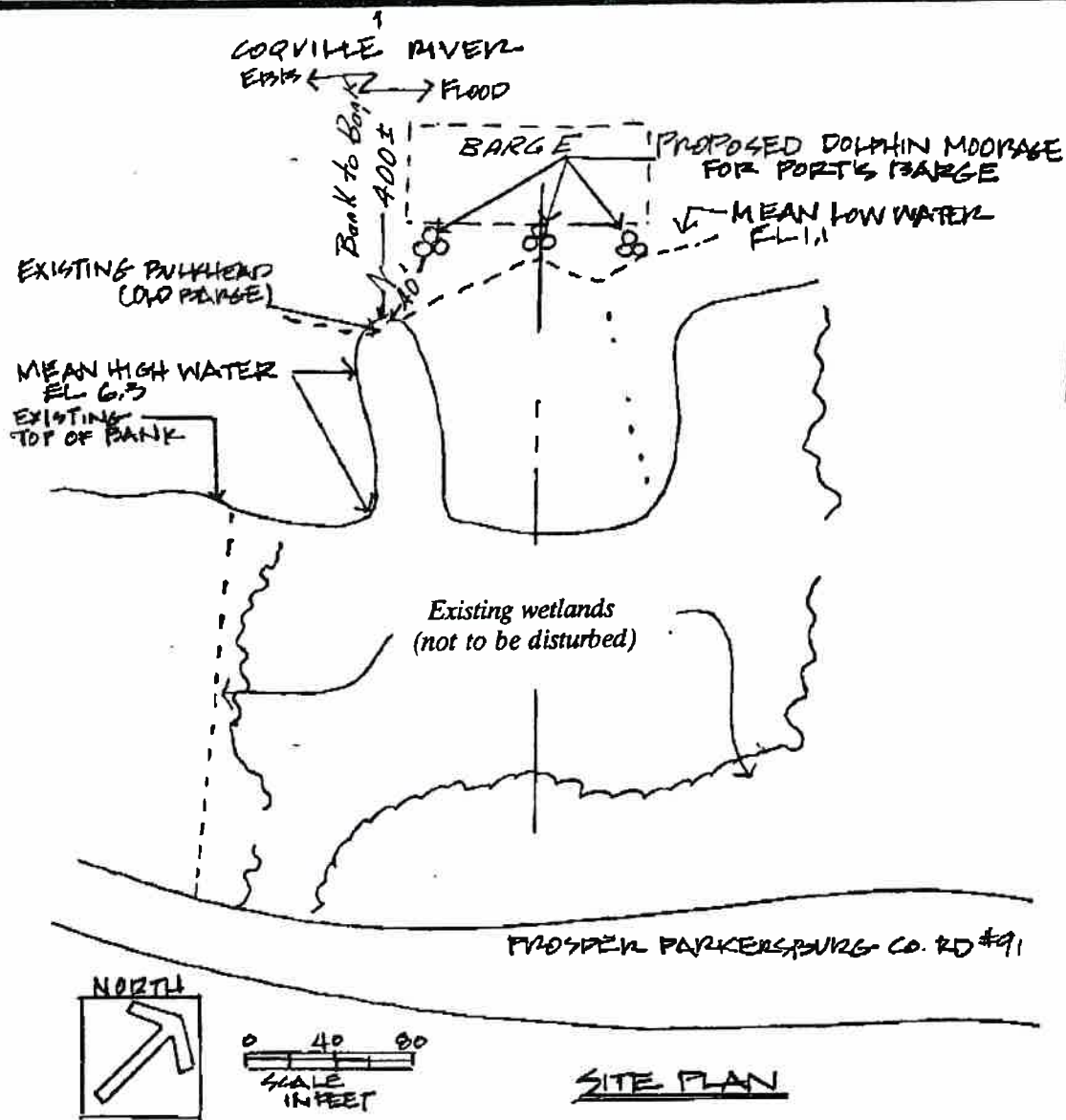
Port of Cascade Locks. Support funding for a bike and pedestrian overcrossing from Wa Na Pa Street into Port Marine Park to connect downtown with the riverfront.

Port of Cascade Locks. Support funding and permitting for a new dock with shore power in Cascade Locks to serve the growing maritime industry, including cruise ships.

Port of Cascade Locks. Support EDA technical assistance & USDA RD funding for the Cascade Locks Downtown Revitalization Program.

Port of Chehalis. Support engineering and development of an agricultural park facility which includes a community market space, restaurant/retail space, and other agriculture related commercial and industrial uses. **Port of Clarkston.** Infrastructure improvement projects, including fiber optic cable for high speed internet, for economic development, tourism, and an industrial park.





Purpose: To secure the Port of Bandon's
55- by 125-foot work barge.

DATUM IS MEAN LOWER LOW WATER
(MLLW IS 3.59' BELOW M.S.L.)

ADJACENT PROPERTY OWNERS

1. JOHN AND MARGARET PYESCHINI
2. JEFFREY AND BERNICE WILLOW
3. MALCOM AND JOHN LARKINS
4. PORT OF BANDON

PROPOSED DOLPHINS

In Coquille River

At Mile 4.7

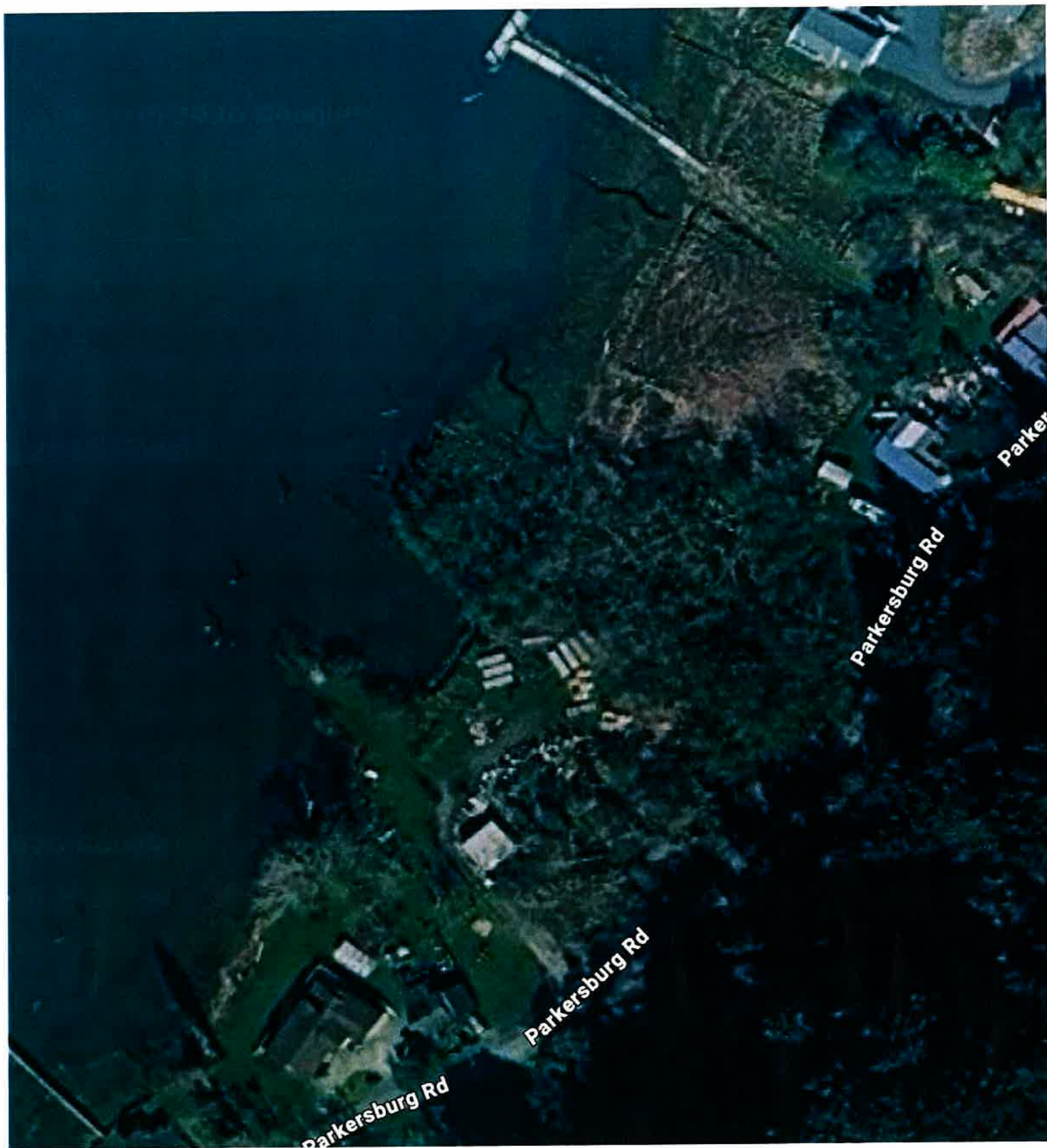
County of Coos,

State Oregon

Application by Port of Bandon

Date October 1992

Sheet 2 Of 2



Domestic Pigeons (Rock Doves)

The domestic pigeon (*Columba livia*) (also called the rock dove or city pigeon) was originally found in Europe, Northern Africa, and India. Early settlers introduced it into the eastern United States as a domestic bird in the 1600s. Since then, it has expanded throughout the United States to Alaska, across southern Canada, and south into South America.

Pigeons originally lived in high places—cliffs, ledges, and caves near the sea—that provided them with safety. Over time they have adapted to roosting and nesting on windowsills, roofs, eaves, steeples, and other man-made structures.

Pigeons typically have a gray body with iridescent feathers around their neck, a broad black band on their tail, and salmon-colored feet (Fig. 1). Breeders have created color variations, so the body color may also be white, tan, black, or a combination of several colors. Pigeons have a strutting walk and their call is a long, drawn-out *coo* that can be heard quite easily. When they take off, their wing-tips touch, making a characteristic clicking sound.

Washington's band-tailed pigeon (*Columba fasciata*) is sometimes confused with the domestic pigeon. Band-tailed pigeons are similar in size but have a purplish head and breast, a dark-tipped yellow bill, yellow feet, and a small white crescent on top of the neck.

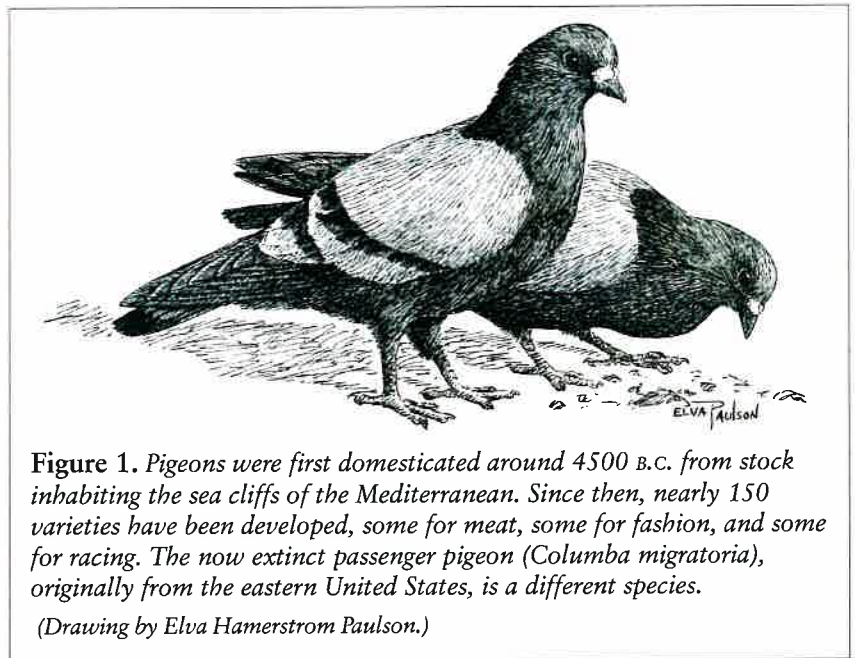


Figure 1. Pigeons were first domesticated around 4500 B.C. from stock inhabiting the sea cliffs of the Mediterranean. Since then, nearly 150 varieties have been developed, some for meat, some for fashion, and some for racing. The now extinct passenger pigeon (*Columba migratoria*), originally from the eastern United States, is a different species.

(Drawing by Elva Hamerstrom Paulson.)

Facts about Pigeons

Food and Feeding Habits

- Domestic pigeons mainly eat seeds and grains.
- Pigeons also eat insects, fruit, and vegetation, and scavenge food people provide for them—intentionally or unintentionally.
- While young birds of other species are fed a high-protein diet of insects, young pigeons are fed “pigeon milk”—a milky-white fatty substance regurgitated from both parents’ crops.
- Pigeons feed on open ground such as that found in parks and squares, on rooftops, at food-loading docks and garbage dumps, and wherever people eat outdoors. They seem to prefer open feeding areas that permit a speedy getaway if a threat is detected.
- Unlike most birds that must tip their heads back to swallow water, pigeons can drink by sucking water directly from a puddle or other water source.

Nesting and Roosting Sites

- Nesting and roosting sites are protected from the elements and are situated on houses, barns, stadiums, and grain elevators, as well as bridges, wharfs, and cliffs.
- Nests in continual use become solid with droppings, feathers, and other debris.

Territory

- Domestic pigeons don't migrate, but if removed from a nesting area, they have a good homing ability and can return from long distances. It is thought that this ability evolved to help them find their own nests on cliffs covered with large colonies of similar looking nests.
- Pigeons are gregarious and eat, roost, and nest in each other's company whenever possible.
- Usually only the immediate area around the nest site is defended against intruders.
- When pigeons are not involved in courtship behavior, caring for young, or eating, their day is spent cooing, preening, and sunbathing at their loafing and roosting sites. Sunbathing is common on cool mornings.

Reproduction

- Domestic pigeons mate for life unless separated by death or accident.
- Females usually lay two cream-colored eggs in a nest loosely constructed from twigs, feathers, and debris.
- Both male and female incubate the eggs, which hatch after 18 days.
- The young are independent at four to five weeks of age.
- Pigeons can raise four to five broods annually. Under optimal conditions, new eggs are laid even before the previous clutch has left the nest.

Mortality and Longevity

- Domestic cats are the main urban predators of pigeons, but opossums, raccoons, foxes, weasels, and rats all eat pigeons when they can access nests or catch adults.
- Urban-dwelling pigeons can also be an important food for peregrine falcons and Cooper's hawks. Crows sometimes eat juvenile pigeons.
- In captivity, pigeons commonly live up to 15 years, sometimes longer. In the wild (including urban areas) pigeons seldom live more than three years.

Preventing Conflicts

Many people find pleasure in viewing pigeons. Because they are one of the few animals that tolerate the environmental conditions of an inner city, pigeons (and house sparrows) may be the only wildlife observed by many people living there. Look for flocks of pigeons in city parks and other places where the birds are accustomed to humans and gather to feed. Within minutes of watching a large active flock of pigeons, you are bound to see several characteristic displays associated with courtship.

Most people don't object to pigeons unless they are present in large numbers. In such cases, their droppings may ruin vegetation, produce an objectionable odor, and damage property such as park benches, statues, cars, and buildings. Large accumulations of droppings have been implicated in causing several fungal diseases (see "Public Health Concerns"). Droppings combined with nest materials and feathers may block downspouts and vents on buildings. Finally, pigeons carry a variety of parasites such as mites and lice. When they nest near windows, these small pests can find their way into homes and bedding.

The most effective way to prevent conflicts with pigeons is to modify your home and property so as not to attract them. Limiting available food and water may help, but pigeons find food and water in many places, even far

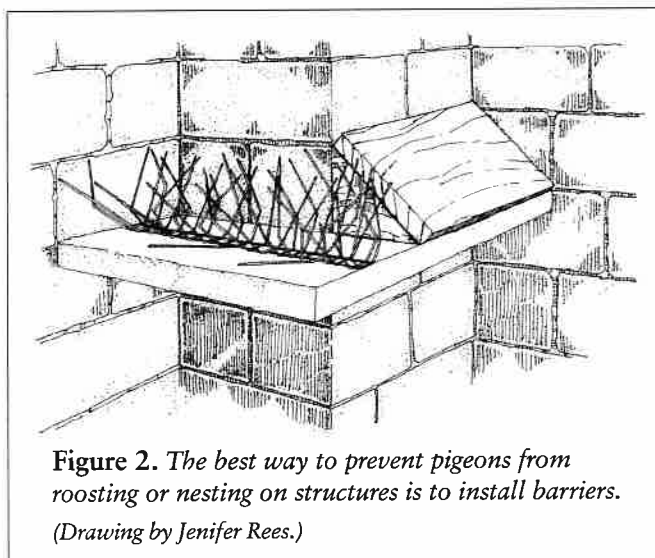


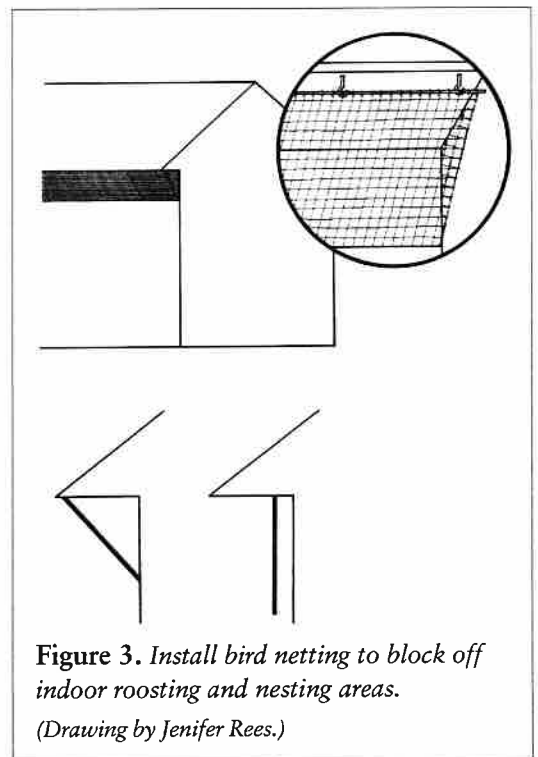
Figure 2. *The best way to prevent pigeons from roosting or nesting on structures is to install barriers.*
(Drawing by Jenifer Rees.)

from where they roost and nest. Where people feed pigeons in their backyards, parks, or lunch areas, education can help reduce the pigeons' food source; but this effort is often futile as there are always people who find the birds irresistible.

Following the suggestions below can reduce problems caused by pigeons roosting or nesting in and around buildings.

Occasionally a pigeon will get caught in a building. If this happens, turn off all inside lights and open all windows and other exits. The bird should leave on its own. If necessary, a broom or long pole with a T-shirt at the end can be used to direct the bird out an exit, or tire it to a point where it can be caught in a towel or similar item. If these methods fail or are impractical, a wildlife damage control company can be called to assist in the removal process. Call your local wildlife office for contact information or look under "Animal Control," "Pest Control," or "Wildlife Control" in your local phone book.

Other situations where it is wise to hire such a professional to remedy pigeon problems include: removing a large quantity of droppings from an old or well-used roost or nesting site, and installing netting or other barriers high on buildings.



Install Barriers

The best way to keep pigeons from occupying ledges, window air-conditioning units, and similar sites is to install barriers. There are various ways to achieve this. **Note:** Established pigeons will fight any type of barrier put in place, especially if it is a popular nesting site. In such cases, the removal of pigeons prior to installing barriers is most effective.

- Install sheet metal, wood, Styrofoam blocks, or other materials at a 60-degree angle (Fig. 2).
- Place an outstretched slinky toy or a rolled-up piece of plastic mesh netting or chicken wire over the area.
- Place metal or plastic spikes, such as Catclaw®, Bird-B-Gone®, and Nixalite® (porcupine wire) where problems are severe or pigeons are persistent (Fig. 2). Metal coils (e.g., Bird Barrier®) function similarly. Electrified systems (Avi-Away®, Flock-Shock®, Flyaway®, VRS®) are designed to shock birds without killing them and thus exclude them from specific locations. These are commercial products available from farm supply centers and bird-control supply companies on the Internet.
- Tightly string single-strand steel wire (16-18 gauge) or monofilament line (80-pound test) between L-brackets installed at each end of the area used by pigeons. For increased tension, attach the wire to the L-brackets with turnbuckles. Install the wire so it will come to the belly of the bird—about 2 inches high.
- Install bird netting to block off indoor roosting and nesting areas. If you can't reach a ledge from inside a building, netting can be attached to the roof, draped across the front of the structure, and then tightly secured to the base and sides of the building. Such netting is available from nurseries and hardware stores; professional quality material and associated hardware is available from bird-control companies and over the Internet. Two-inch mesh netting works well for pigeons, and it isn't as likely to trap small songbirds as the light, small mesh material. Install the netting so window washers can remove it or work under it.
- Cover the underside of rafters with bird netting to prevent pigeons from gaining access to roosting spots (Fig. 4). Previously used bird netting may be available, as well as used gill netting from fishermen or fish hatcheries. The cost of new netting makes seeking out an alternative worthwhile.
- Holes in buildings can be boarded up or covered with quarter-inch galvanized wire mesh.
- Commercially available sticky products are not recommended. They attract dirt and may melt during hot weather. In addition to people's failure to use and monitor sticky products properly, these products can cause pigeons and smaller birds to suffer unnecessarily when they get stuck in them.

The cost of installing barriers may render them impractical on large buildings with extensive roosting sites. However, barriers are valid options for smaller areas. Always use care when working high above the ground and ensure that the barriers can't fall and injure a passerby.

Check the covered areas as needed for accumulated debris or nest material. Regularly remove falling leaves and other matter that can cover the barrier and reduce its effectiveness.

If pigeons are likely to drop nest material and other debris on top of the newly installed barrier, add an additional barrier on the landing site above the installation.

Harassment Techniques

Noisemaking devices and scare tactics have little permanent effect on pigeons, particularly at well-established roosting and nesting sites. However, harassment methods can be effective when installed before pigeons become accustomed to using an area. They may also be effective on small groups of pigeons. Various harassment techniques include:

- Continually remove pigeon nests to discourage the birds from nesting. Pigeons will leave an area after several unsuccessful attempts at nest building. This approach is most effective after barriers have been installed. When using a high-pressure spray, make sure the contaminated water doesn't spray where people are present. See "Public Health Concerns" for information on safely cleaning up bird droppings. When spraying is not possible, use a hook fastened to a long pole to remove the nests.
- Install a sprinkler in the roost tree or other roosting site or light up the interior of the roost with bright fluorescent lights.
- Contact your local falconer's association to have a falconer come out to train their falcons weekly (search the Internet for "Falconers Association"). Trained falcons are especially effective at dispersing large flocks of pigeons and catching individual birds in large buildings. Most falconers will be reluctant to use their birds of prey near highways and other high-traffic areas.
- Ultrasonic devices have been tested by university, government, and private independent researchers, and were found to have no effect on pigeons.

Lethal Control

If all efforts to dissuade problem pigeons fail and they continue to be a human safety concern, they may have to be trapped. Trapping is rarely a permanent solution since other pigeons are likely to move in if attractive roosting and nesting sites are still available.

Small-scale traps are available from the Purple Martin Conservation Association and other enterprises over the Internet. Check the trap at least twice a day for non-targeted birds.

Do not trap pigeons and release them elsewhere, because they will easily return or cause problems somewhere else. If you cannot humanely kill them yourself, find a falconer or wildlife rehabilitation center that will accept live pigeons to feed to hawks.

Shooting has been effective in eliminating small isolated groups of pigeons. For safety considerations, shooting is generally limited to rural situations and is considered too hazardous in more populated areas, even if legal. Where shooting is legal and safe, .22 CB caps work well, so does any semi high-powered pellet rifle with a pellet velocity of 800 fps or more.

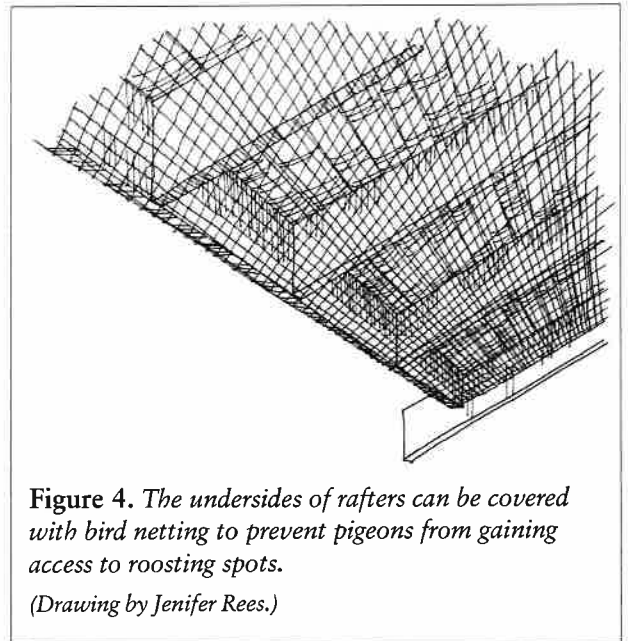


Figure 4. *The undersides of rafters can be covered with bird netting to prevent pigeons from gaining access to roosting spots.*

(Drawing by Jenifer Rees.)

Public Health Concerns

The most common health concerns associated with starlings, crows, and pigeons involve disease that could result from inhalation exposure to large accumulations of droppings. **Histoplasmosis** cases are not reported in the Pacific Northwest, but do occur in other parts of the United States. **Psittacosis**, caused by the organism *Chlamydia psittaci*, can be related to exposure to pigeons or their droppings.

When working in or cleaning up areas where large amounts of bird (or bat) droppings occur, follow these precautions to minimize risk from disease organisms in the droppings:

- Wear a National Institute for Occupational Safety and Health (NIOSH) approved full-face respirator with a high-efficiency particle air (HEPA) filter for screening particles down to 0.3 microns in size. Simple dust and particle masks will not provide adequate protection. Make sure the respirator is properly fitted to your face before work starts. Contact the manufacturer for specific information. Respirators are available for purchase in larger hardware, paint, and home supply outlets.
- Wear disposable protective gloves, a hat, coveralls, and boots. When finished, and while still wearing the respirator, remove this protective clothing and place it in a plastic bag. If you wear nondisposable coveralls, be sure to put them in a plastic bag after you are finished wearing them, and keep the bag tied until you are ready to wash them. Wash the coveralls separately from other clothing before you wear them again.
- Wet down the droppings to keep spores from becoming airborne, and keep the droppings damp for as long as you are working with them.
- Put droppings into sealed plastic garbage bags.
- Dispose of trash bags (disposal should be permissible through standard trash pickup).
- Wash or shower after you have removed your protective clothing.

Legal Status

Rock doves are exempt from the Migratory Bird Treaty Act (MBTA) of 1918, which was passed for the protection of migratory birds. Their nests, eggs, young, and/or adults may be removed or destroyed at any time. No permit is required.

Pigeons and Bird Feeders

Because domestic pigeons are relatively large birds, you can discourage them by using tube-type feeders that have small perches, and small feeding ports.

Some commercially available caged feeders designed to frustrate squirrels will let smaller birds in but also keep pigeons out. Wire mesh placed over a platform feeder prevents larger birds such as jays, starlings, and pigeons from accessing seeds (Fig. 5).

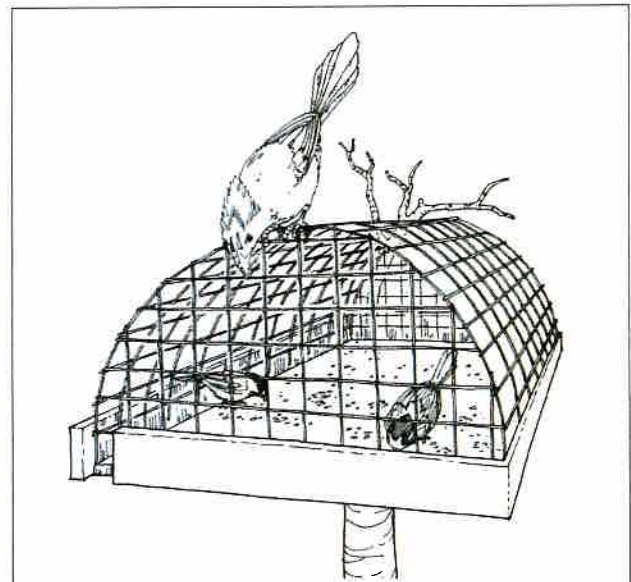


Figure 5. Wire placed over a platform feeder to allow small birds in and keep large birds out.

(Drawing by Jenifer Rees.)

Additional Information

Internet Resources

Centers for Disease Control and Prevention: www.cdc.gov/

Prevention and Control of Wildlife Damage: wildlifedamage.unl.edu/handbook/handbook/

Seattle Audubon's Birds of Washington State: www.birdweb.org/birdweb/

Vertebrate Management Links: www.snohomish.wsu.edu/verturl.htm

Wildlife Control Supplies: www.wildlifecontrolsupplies.com/

Adapted from "Living with Wildlife in the Pacific Northwest" (see <http://wdfw.wa.gov/wlm/living.htm>)

Written by: Russell Link, WDFW Urban Wildlife Biologist, Linkrel@dfw.wa.gov

Design and layout: Peggy Ushakoff, ITT2

Illustrations: As credited

Copyright 2005 by the Washington Department of Fish and Wildlife.

This program receives Federal financial assistance from the U.S. Fish and Wildlife Service. It is the policy of the Washington State Department of Fish and Wildlife (WDFW) to adhere to the following: Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, and Title IX of the Education Amendments of 1972. The U.S. Department of the Interior and its bureaus prohibit discrimination on the bases of race, color, national origin, age, disability and sex (in educational programs). If you believe that you have been discriminated against in any program, activity or facility, please contact the WDFW ADA Coordinator at 600 Capitol Way North, Olympia, Washington 98501-1091.



