Pesticide Stewardship Partnership

Mid-Coast Water Planning Partnership Toledo Fire Hall January 9th 2020

Pesticide Stewardship Partnership Background

The program began in 1999 in the Hood River area as a collaborative to address pesticide and water quality concerns, and then expanded to other parts of the state

The Partnership utilizes local expertise combined with water quality sampling results to evaluate reasons for pesticide occurrences and recommend potential solutions to address those occurrences

The Partnership and the State Water Quality Pesticide Management Plan (WQPMP) activities are overseen by the Water Quality Pesticide Management Team

Goal: promote voluntary changes in pesticide use practices that improve water quality, thereby eliminating the need for regulatory based actions to address water quality ² concerns.

Pesticide Stewardship Partnership Background

The Pesticide Stewardship Partnership is overseen by the Water Quality Pesticide Management Team (WQPMT)

The WQPMT consists of five agencies and Oregon State University:

Oregon Department of Agriculture (Chair) (5 members) Oregon Department of Environmental Quality (3 members) Oregon Department of Forestry (1 Member) Oregon Health Authority (1 Member) Oregon Watershed Enhancement Board (1 Member) Oregon State University (1 Member)

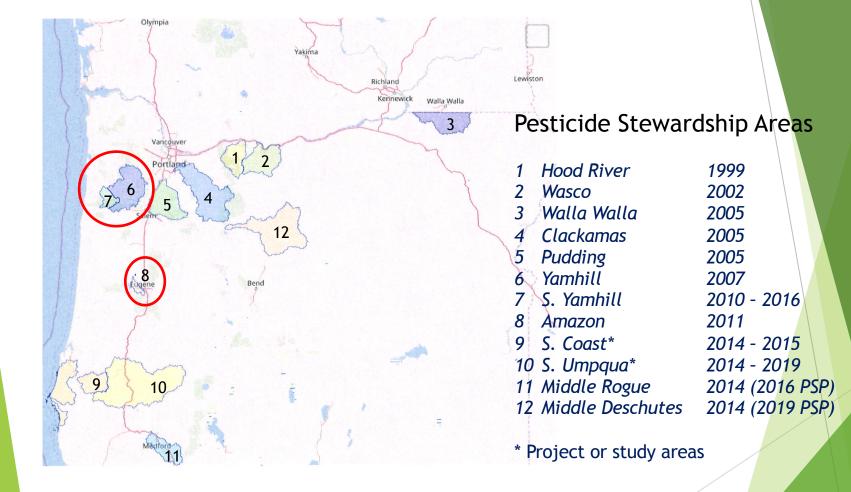
Decisions are made with each agency receiving 1 vote Final decisions are unanimous

Pesticide Stewardship Partnership WQPMT Activities

Through the implementation of this WQPMP, the agencies have agreed to coordinate and facilitate support of the following Pesticide Stewardship Partnership related activities:

- Develop a process for annually identifying and tracking POC's and POI's
- Prioritize geographic areas for protection based on watershed vulnerability
- Support pesticide monitoring efforts
- Identify water quality benchmarks for "high risk" water contaminants
- Based on water quality data discuss and recommend possible management measures per the response outlined in the WQPMP
- Develop a joint communication strategy
- Share information related to ongoing edu./outreach programs
- Support development of pesticide related water quality education efforts
- Assess pesticide WQ mitigation recommendations from other agency plans

Pesticide Stewardship Partnership Current and Historical Areas



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Pesticide Stewardship Partnership - Process



Step 1: WQPMT contacted by watershed group



Step 2: Several qualifiers must be met



Step 3: WQPMT meets with WS stakeholder group to define study



Step 5A: Data indicates no issues



Step 6: Implement management measures and evaluate success



Step 5: Data analysis and review, mgmt. measures developed



Step 4: Water sampling at agreed upon sites

Decision Matrix Based on Water Monitoring Data (2019)

Detected concentration relative to aquatic life benchmarks (ALB) and frequency of detection

| 0 | | Ref | erence Level (| Criteria | |
|------------------|----------------|---|---|--|--|
| ו אם באר שו השוש | | ≥ 1 detection at or above 50% of an acute ALB | > 3 detections at or above 50% of a chronic ALB | 1 to 2 detections at or above 50% of a chronic ALB | No detections over 50% of any ALB |
| | 100 to 65.1 | High Level of Concern | High Level of Concern | High Level of Concern | Moderate Level of Concern |
| | 65 to 35.1 | High Level of Concern | High Level of Concern | Moderate Level of Concern | Moderate Level of Concern |
| | 35 to 0 | High Level of Concern | High Level of Concern | Moderate Level of Concern | Low Level of Concern |

Each Pesticide Stewardship Partnership area will determine the level of concern for detected pesticides. Pesticides that are deemed of high concern in over 30% of The PSP areas will be designated as statewide pesticide of high concern or statewide Pesticides of concern (POC's)

Pesticide Stewardship Partnership Data Summaries

Pesticides Analyzed

| Herbicides Fungicides Legacy | 56 11 18 | Insecticides Degradates | 42 6 | |
|------------------------------------|----------------|----------------------------|---------|--|
| Total | 134 | | | |

Current List of Pesticides of Concern

- Chlorpyrifos ¹ Diazinon Diuron ² Imidacloprid Malathion Oxyfluorfen ³
- 1 Lorsban/Dursban 2 Karmax 3 Goal 4 Sevin 5 Outlook 6 Oust

Current List of Pesticides of Interest

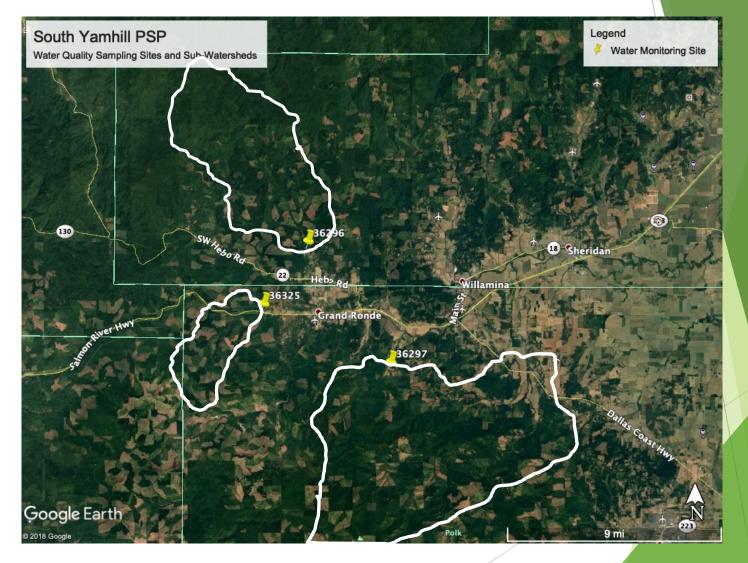
Atrazine Bifenthrin Carbaryl⁴ Dimethenamid⁵ Metolachlor Sulfometuron-methyl⁶ Simazine

South Yamhill PSP

History: In 2010 the Oregon Department of Environmental Quality (DEQ) and the Oregon Department of Forestry (ODF) began discussions with the Confederated Tribes of the Grand Ronde and forest landowners to evaluate potential impacts to surface water bodies from herbicides used in the commercial forestry industry.

The locations of these sites were selected to isolate (to the greatest extent possible) lands used solely for commercial forestry operations. Monitoring began in October 2010 at three sites and continued through 2016.

PSP Areas of Interest Mid-Coast Planning Partnership South Yamhill



South Yamhill PSP

Water Quality Monitoring Stations South Yamhill (2010-2016)

| Station ID | Map Number | Description | Predominate Land Use | No. Detections | BM* Exceedances |
|---------------|---------------|-----------------------------------|----------------------------|-------------------|--------------------|
| 36296 | 1 | Agency Creek at Grand Ronde Rd | Forestry | 7 | 0 |
| 36297 | 2 | Gold Creek at Gold Creek Rd | Forestry | 26 | 0 |
| 36325 | 3 | Rogue River at Hwy 18 | Forestry | 13 | 0 |

| Pesticide | Туре | No. of Analysis | No. of Detections | Max. Conc. µg/L | % Greater than 10% of Benchmark s | % Greater than 50% of Benchmark |
|------------------------------|------|--------------------|-------------------------|-----------------------|--|---------------------------------------|
| AMPA | м | 72 | 1 | .0513 | 0 | 0 |
| Atrazine | Н | 183 | 8 | .109 | 3.3 | 1.1 |
| DEET | R | 168 | 3 | .073 | 0 | 0 |
| Desethylatrazine | М | 153 | 8 | .00679 | 0 | 0 |
| Fluridone | Н | 168 | 1 | .0313 | .64 | 0 |
| Hexazinone | Н | 168 | 3 | .0303 | 1.8 | 1.8 |
| Imazapyr | Н | 157 | 1 | .126 | .64 | 0 |
| Metsulfuron methyl | Н | 54 | 2 | .0506 | 1.9 | 1.9 |
| S-Ethyl dipropylthiocarbmate | М | 168 | 15 | .025 | 8.9 | 0 |
| Sulfometuron-methyl | Н | 149 | 4 | .0265 | 2.7 | 0 |

What Pesticides Have Been Detected Most Frequently In Commercially Forested Areas in Oregon?

What Are the Top 5 Pesticides or Pesticide Degradates by Land Use?

- Detection Frequency (minimum 30 samples)
- Concentrations Relative to EPA Benchmarks or DEQ Criteria (minimum 3 detects)
- What data sets were used:
 - Pesticide Stewardship Partnership stream samples (DEQ Lab)
 - 2015 USGS Pacific Northwest Stream Quality Assessment (Willamette Basin)

| Detection Frequency in FORESTRY Ar | reas | Aquatic Life Ratio in FORESTRY Areas | | |
|--|----------|---|------------|--|
| Current Use Pesticide % Sam | | Current Use Pesticide | Aquatic | |
| | Detected | | Life Ratio | |
| Hexazinone (Velpar) | 8% | Metsulfuron-methyl (Escort) | 0.14 | |
| Diuron (Karmex, Direx) – not used in forestry | 8% | Sulfometuron-methyl (Oust) | 0.14 | |
| Atrazine | 6% | Diuron (Karmex, Direx) – not used in | 0.12 | |
| | | forestry | | |
| Imazapyr (Arsenal, Chopper) | 5% | Atrazine | 0.09 | |
| Sulfometuron-methyl (Oust) | 4% | Imazapyr (Arsenal, Chopper) | 0.02 | |

Bolded compounds = statewide Pesticides of Concern ALR = Highest Detected Concentration / EPA ALB



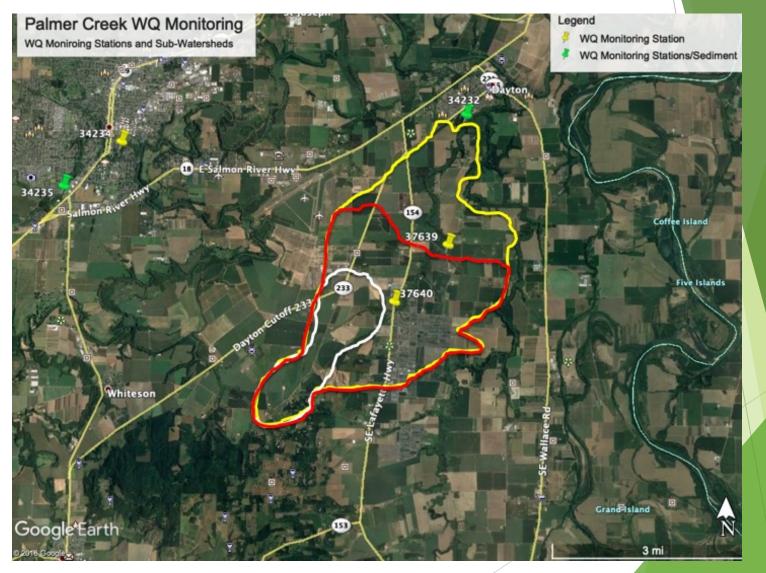
South Yamhill PSP

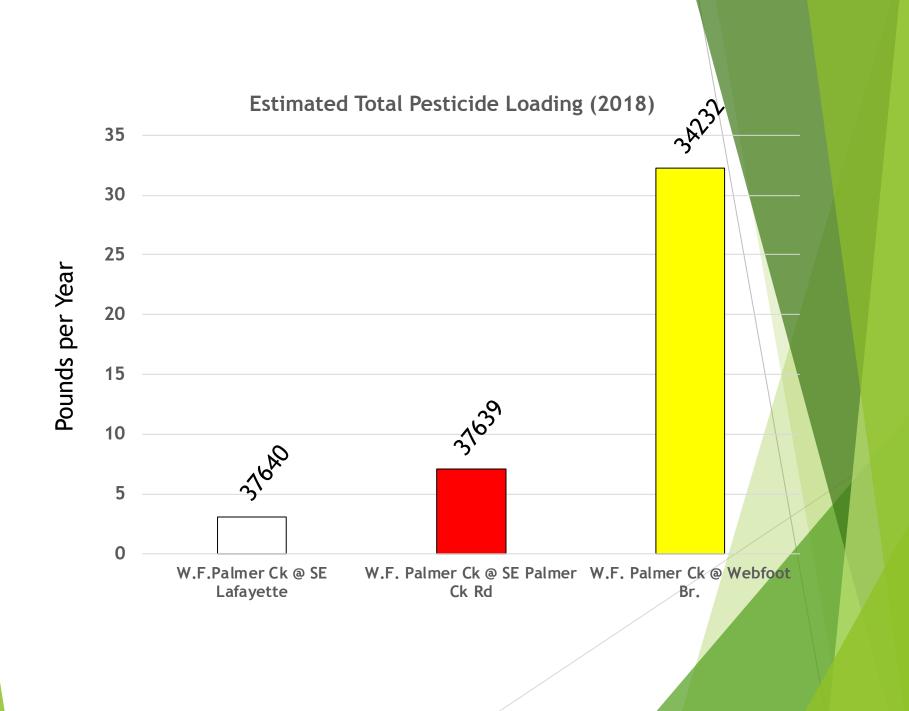
The data acquired during the seven years of water quality monitoring indicates that further water quality data (by itself) would not add to the level of understanding regarding the relationship between land use and pesticide applications. Given that there exists a low level of concern (based on current data), further investigation and resource expenditures are not warranted in the South Yamhill watershed and monitoring activities were discontinued as of spring 2017.

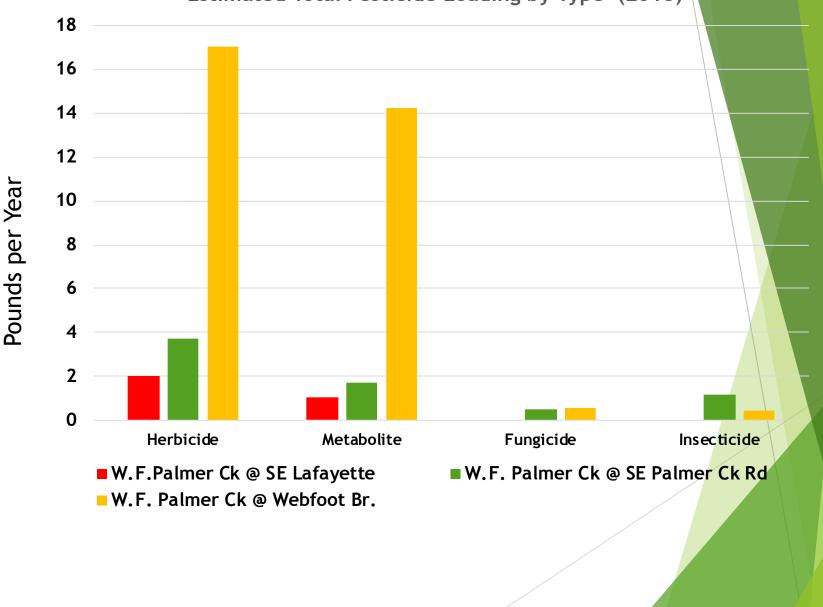
Data results reflect common findings in commercial forests:

- ✤ Low, sporadic concentrations of herbicides
- Moderate to low frequency of herbicide detections

PSP Areas of Interest Mid-Coast Planning Partnership Greater Yamhill





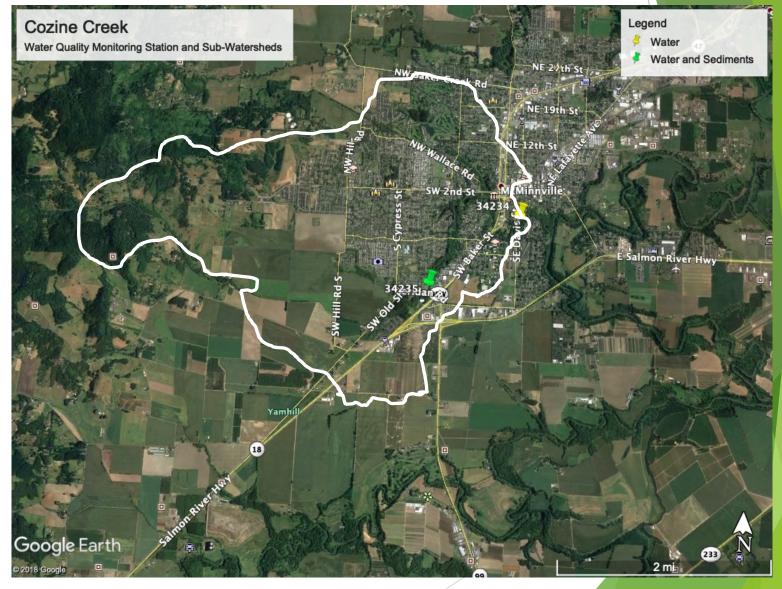


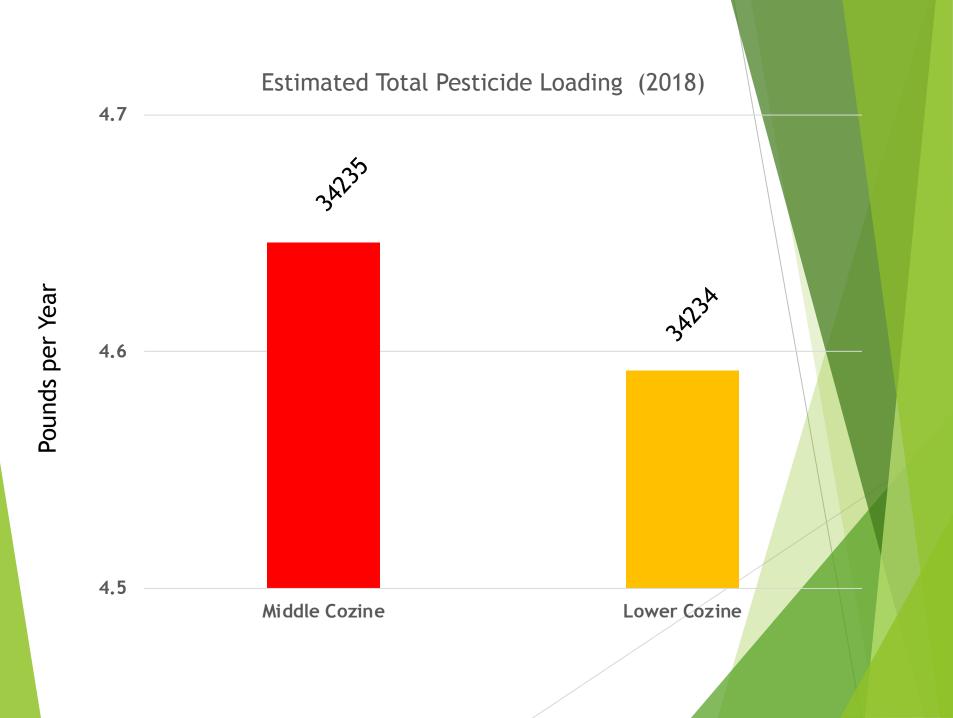
Estimated Total Pesticide Loading by Type (2018)

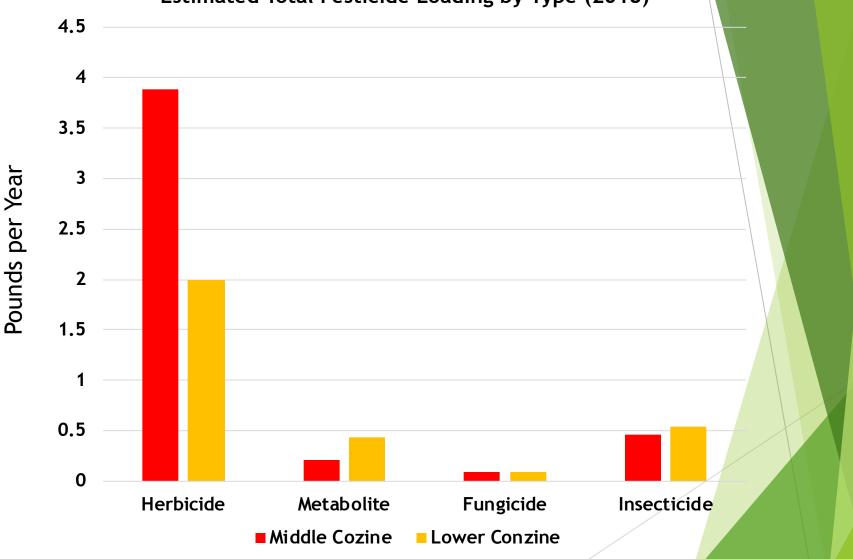
| West Fork Palmer @ Webfoot Rd. Bridge | | |
|---------------------------------------|---------------|-------------|
| (34232) | Number | Benchmark |
| 2017 | of Detections | Exceedences |
| 2-Chloro-4-isopropylamino-6-amino-s- | | |
| triazine | 0 | |
| 2,4-D | 2 | |
| 2,6-dichlorobenzamide | 13 | |
| Acephate | 3 | |
| Acetamiprid | 2 | |
| Aminomethylphosphonic acid (ampa) | 13 | |
| Atrazine | 12 | |
| Azoxystrobin | 9 | |
| Bifenthrin | 2 | 2 |
| Carbaryl | 0 | |
| Chlorpyrifos | 2 | 2 |
| Chlorothalonil | 0 | |
| Deisopropylatrazine | 13 | |
| Desethylatrazine | 11 | |
| Diazinon | 4 | 2 |
| Dicamba | 4 | |
| Dimethenamid | 12 | |
| Dimethoate | 0 | |
| Diuron | 13 | |
| Ethoprop | 4 | |
| Glyphosate | 13 | |
| Imazapyr | 3 | |
| Imidacloprid | 9 | 9 |
| Malathion | 0 | |
| Metolachlor | 12 | |
| Metribuzin | 5 | |
| Metsulfuron methyl | 0 | |
| Napropamide | 1 | |
| Norflurazon | 9 | |
| Oxyfluorfen | 4 | |
| Pendimethalin | 4 | |
| Pronamide | 0 | |
| Propiconazole | 12 | |
| Pyraclostrobin | 3 | |
| S-Ethyl dipropylthiocarbamate | 4 | |
| Simazine | 13 | 1 |
| Sulfometuron-methyl | 7 | |
| Trifluralin | 2 | |
| Total Detections | 220 | 16 |
| | | |

| West Fork Palmer @ Webfoot Rd. Bridge | | |
|--|---------------|-------------|
| (34232) | Number | Benchmark |
| 2019 | of Detections | Exceedences |
| 2-Chloro-4-isopropylamino-6-amino-s- triazine | 2 | |
| 2,4-D | 4 | |
| 2,6-dichlorobenzamide | 9 | |
| Acephate | 4 | |
| Acetamiprid | 0 | |
| Aminomethylphosphonic acid (ampa) | 8 | |
| Atrazine | 9 | |
| Azoxystrobin | 7 | |
| Bifenthrin | 0 | |
| Carbaryl | 0 | |
| Chlorpyrifos | 1 | 1 |
| Chlorothalonil | 0 | |
| Deisopropylatrazine | 9 | |
| Desethylatrazine | 5 | |
| Diazinon | 1 | 1 |
| Dicamba | 2 | |
| Dimethenamid | 7 | |
| Dimethoate | 1 | |
| Diuron | 9 | 1 |
| Ethoprop | 1 | |
| Glyphosate | 7 | |
| Imazapyr | 4 | |
| Imidacloprid | 3 | 3 |
| Malathion | 1 | 1 |
| Metolachlor | 7 | |
| Metribuzin | 6 | |
| Metsulfuron methyl | 6 | |
| Napropamide | 0 | |
| Norflurazon | 4 | |
| Oxyfluorfen | 4 | |
| Pendimethalin | 1 | |
| Pronamide | 6 | |
| Propiconazole | 7 | |
| Pyraclostrobin | 7 | |
| S-Ethyl dipropylthiocarbamate | 0 | |
| Simazine | 9 | |
| Sulfometuron-methyl | 4 | 1 |
| Trifluralin | 0 | |
| Total Detections | 155 | 8 |
| | | |

PSP Areas of Interest Mid-Coast Planning Partnership Greater Yamhill







Estimated Total Pesticide Loading by Type (2018)

Yamhill PSP Middle Cozine Creek

| 2017DetectionsExceedences2019 (less Fall)Detections2,4-D12,4-D02,6-dichlorobenzamide122,6-dichlorobenzamide9Atrazine0Atrazine0Azoxystrobin1Azoxystrobin4Carbaryl21Carbaryl0Chlorpyrifos3 | Middle Cozine @ Old Sheridan Road (34235) | Number of | Benchmark | Middle Cozine @ Old Sheridan Road (34235) | Number of |
|--|--|------------|-------------|--|------------|
| 2,4-D12,4-D02,6-dichlorobenzamide122,6-dichlorobenzamide9Atrazine0Atrazine0Azoxystrobin1Azoxystrobin4Carbaryl21Carbaryl0Chlorpyrifos3Chlorpyrifos0DEET0DEET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron1313Diuron9Imazapyr1Imazapyr4Imidacloprid1313MetolachlorMetribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1Simazine8 | 2017 | Detections | Exceedences | 2019 (less Fall) | Detections |
| Atrazine0Atrazine0Azoxystrobin1Azoxystrobin4Carbaryl21Carbaryl0Chlorpyrifos3Chlorpyrifos0DEET0DEET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetribuzin5Metribuzin8Metsulfuron methyl2Metribuzin6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S:Ethyl dipropylthiocarbamate0Simazine1Simazine8 | 2,4-D | 1 | | | 0 |
| Azoxystrobin1Azoxystrobin4Carbaryl21Carbaryl0Chlorpyrifos3Chlorpyrifos0DEET0DEET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1Simazine8Simazine1Simazine8 | 2,6-dichlorobenzamide | 12 | | 2,6-dichlorobenzamide | 9 |
| Carbaryl21Carbaryl0Chlorpyrifos33Chlorpyrifos0DET0DET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1Simazine8 | Atrazine | 0 | | Atrazine | 0 |
| Chlorpyrifos3Chlorpyrifos0DEET0DEET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Dimethenamid1Dimethenamid0Dimethenamid1Dimethenamid0Dimethenamid1Dimethenamid0Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Azoxystrobin | 1 | | Azoxystrobin | 4 |
| DEET0DEET0Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10S-Ethyl dipropylthiocarbamate5Simazine1Simazine8 | Carbaryl | 2 | 1 | Carbaryl | 0 |
| Desethylatrazine2Desisopropylatrazine7Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313ImidaclopridMetolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1Simazine8 | Chlorpyrifos | 3 | | Chlorpyrifos | 0 |
| Dimethenamid1Dimethenamid0Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313Imidacloprid6Metolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | DEET | 0 | | DEET | 0 |
| Diuron13Diuron9Imazapyr1Imazapyr4Imidacloprid1313Imidacloprid6Metolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Desethylatrazine | 2 | | Desisopropylatrazine | 7 |
| Imazapyr1Imazapyr4Imidacloprid1313Imidacloprid6Metolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Dimethenamid | 1 | | Dimethenamid | 0 |
| Imidacloprid1313Imidacloprid6Metolachlor11Metolachlor9Metribuzin5Metolachlor9Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S:Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Diuron | 13 | | Diuron | 9 |
| Metolachlor11Metolachlor9Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Imazapyr | 1 | | Imazapyr | 4 |
| Metribuzin5Metribuzin8Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Imidacloprid | 13 | 13 | Imidacloprid | 6 |
| Metsulfuron methyl2Metsulfuron methyl6Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Metolachlor | 11 | | Metolachlor | 9 |
| Oxyfluorfen0Oxyfluorfen1Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Metribuzin | 5 | | Metribuzin | 8 |
| Pendimethalin5Pendimethalin6Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Metsulfuron methyl | 2 | | Metsulfuron methyl | 6 |
| Propiconazole10Propiconazole5S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Oxyfluorfen | 0 | | Oxyfluorfen | 1 |
| S-Ethyl dipropylthiocarbamate1S-Ethyl dipropylthiocarbamate0Simazine1Simazine8 | Pendimethalin | 5 | | Pendimethalin | 6 |
| Simazine 1 Simazine 8 | Propiconazole | 10 | | Propiconazole | 5 |
| | S-Ethyl dipropylthiocarbamate | 1 | | S-Ethyl dipropylthiocarbamate | 0 |
| Culfematures method | Simazine | 1 | | Simazine | 8 |
| Sufformeturon-methyl 8 Sufformeturon-methyl 5 | Sulfometuron-methyl | 8 | | Sulfometuron-methyl | 5 |
| Tebuthiuron 2 Tebuthiuron 4 | Tebuthiuron | 2 | | Tebuthiuron | 4 |
| Total Detections94Total Detections91 | Total Detections | 94 | | Total Detections | 91 |

Benchmark Exceedences

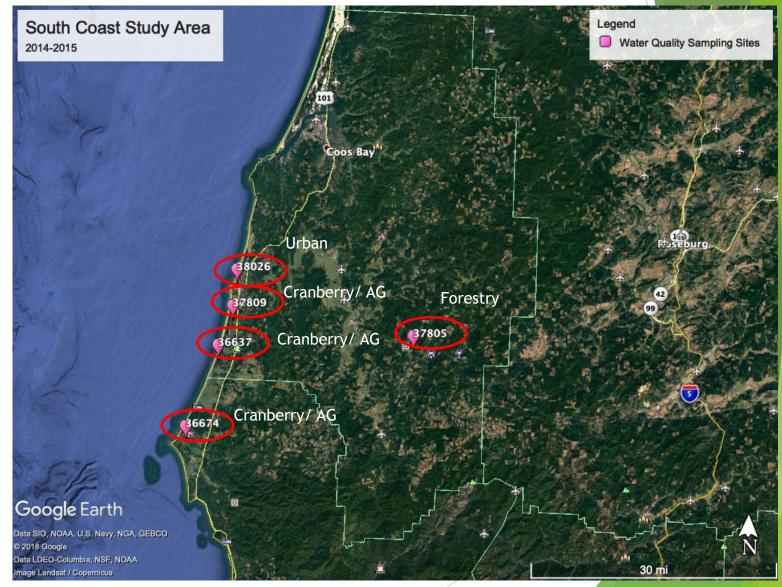
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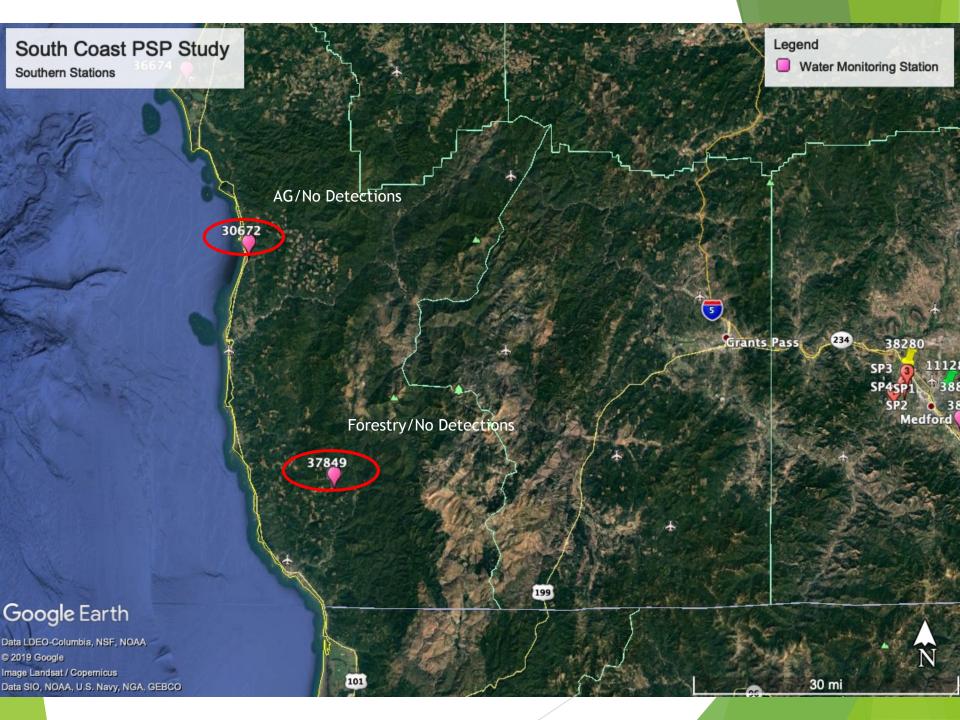
Yamhill PSP Lower Cozine Creek

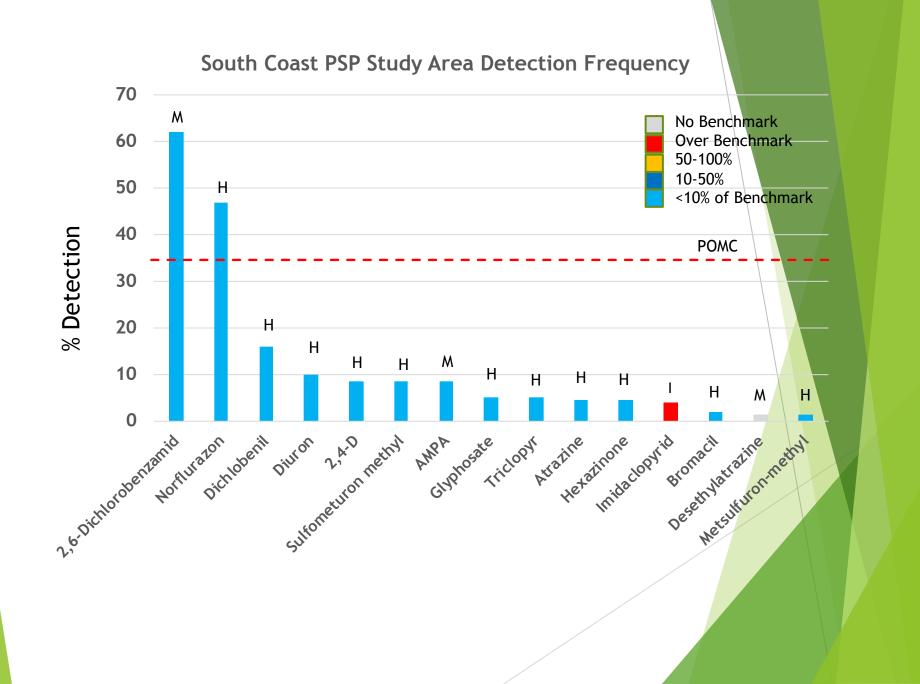
| Lower Cozine Creek @ Davis Bridge (34234) | Number of | Benchmark |
|--|------------|-------------|
| 2017 | Detections | Exceedences |
| 2,4-D | 2 | |
| 2,6-dichlorobenzamide | 12 | |
| Atrazine | 3 | |
| Azoxystrobin | 0 | |
| Carbaryl | 4 | |
| Chlorothalonil | 1 | |
| Chlorpyrifos | 1 | |
| DEET | 0 | |
| Deisopropylatrazine | 0 | |
| Dichlobenil | 1 | |
| Diuron | 13 | |
| Ethoprop | 1 | |
| lmazapyr | 1 | |
| Imidacloprid | 13 | 13 |
| Metolachlor | 6 | |
| Metribuzin | 2 | |
| Metsulfuron methyl | 0 | |
| Pendimethalin | 3 | |
| Propiconazole | 5 | |
| S-Ethyl dipropylthiocarbamate | 1 | |
| Silvex | 1 | |
| Simazine | 1 | |
| Sulfometuron-methyl | 7 | |
| Tebuthiuron | 2 | |
| Total Detections | 80 | |

| Lower Cozine Creek @ Davis Bridge (34234) | Number of | Benchmark |
|--|------------|-------------|
| 2019 (less Fall) | Detections | Exceedences |
| 2,4-D | 0 | |
| 2,6-dichlorobenzamide | 9 | |
| Atrazine | 1 | |
| Azoxystrobin | 3 | |
| Carbaryl | 2 | |
| Chlorothalonil | 0 | |
| Chlorpyrifos | 0 | |
| DEET | 2 | |
| Deisopropylatrazine | 7 | |
| Dichlobenil | 0 | |
| Diuron | 9 | |
| Ethoprop | 0 | |
| Imazapyr | 3 | |
| Imidacloprid | 6 | 6 |
| Metolachlor | 9 | |
| Metribuzin | 4 | |
| Metsulfuron methyl | 4 | |
| Pendimethalin | 2 | |
| Propiconazole | 6 | |
| S-Ethyl dipropylthiocarbamate | 0 | |
| Silvex | 0 | |
| Simazine | 8 | |
| Sulfometuron-methyl | 7 | |
| Tebuthiuron | 7 | |
| Total Detections | 89 | |

PSP Areas of Interest Mid-Coast Planning Partnership South Coast







PSP Areas of Interest Mid-Coast Planning Partnership South Coast

Seven stations sampled (mix of urban, AG, and forestry)

Results of the two-year study indicated that pesticides (both herbicides and insecticides) were entering nearby waterbodies

Frequencies of one herbicide and metabolite were high (45-60%)

Concentrations (with the exception of imidacloprid) were well below US EPA Aquatic Life Benchmarks

Under new rating matrix at least 1 herbicide, 1 insecticide and 1 metabolite would reach a moderate level of concern

At this point there are no plans to return to S. Coast for follow-up

Potential for coastal study in the future in mid to north Oregon Coast

Questions?

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