STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
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2016 Annual Treatment Report

for aquatic pesticide applications conducted under

NPDES WAG-993000

Prepared by
Pest Program
Washington State Department of Agriculture
January 2017

DEPARTMENT OF ECOLOGY
JAN 31 2017
WATER QUALITY PROGRAM

2016 Annual Treatment Report
for aquatic pesticide applications
conducted under

NPDES WAG-993000

Signatory Page

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiries of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

1/31/17

Jim Marra, Ph.D.
Pest Program Manager
Washington State Department of Agriculture

Washington State Department of Ecology

Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Sacks Wetland near Tennant Lake, Ferndale	Whatcom	Other	Triclopyr TEA	0.0400 Gal	2.0000
2016	Sacks Wetland near Tennant Lake, Ferndale	Whatcom	Reed Canary Grass	Glyphosate	0.1700 Gal	2.0000
2016	Semiahmoo Bay	Whatcom	None	Imazapyr	0.0000 None	0.0000
2016	Semiahmoo Bay	Whatcom	None	Glyphosate	0.0000 None	0.0000
2016	Skagit River	Whatcom	Knotweeds	Imazapyr	0.0010 Gal	0.0020
2016	Skagit River	Whatcom	Other	Glyphosate	0.1270 Gal	0.2300
2016	Squalicum Creek Irongate Wetland	Whatcom	Knotweeds	Imazapyr	0.0001 Gal	0.0250
2016	Stuart Rd ditch near Squalicum Creek, Bellingham	Whatcom	None	Glyphosate	0.0000 None	0.0000
2016	Unnamed Chandler's tiny creek, Bellingham Bay	Whatcom	Knotweeds	Imazapyr	0.0001 Gal	1.5000
2016	Naches River & its backwater	Yakima	None	Glyphosate	0.0000 None	0.0000
2016	Naches River & its backwater	Yakima	Knotweeds	Imazapyr	0.9953 Gal	1.8000
2016	Naches River & its backwater	Yakima	Loosestrife	Triclopyr TEA	0.3300 Gal	0.1000
2016	Yakima River & its backwater	Yakima	None	Glyphosate	0.0000 None	0.0000
2016	Yakima River & its backwater	Yakima	None	Glyphosate	0.0000 None	0.0000
2016	Yakima River & its backwater	Yakima	None	Imazapyr	0.0000 None	0.0000
2016	Yakima River & its backwater	Yakima	None	Imazapyr	0.0000 None	0.0000
2016	Yakima River & its backwater	Yakima	Loosestrife	Triclopyr TEA	3.8100 Gal	2.5400
2016	Yakima River & its backwater	Yakima	Loosestrife	Triclopyr TEA	12.8000 Gal	8.5300

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Elochoman River	Wahkiakum	Knotweeds	Adjuvant(s)	0.0800 Gal	6.0000
2016	Germany Creek	Wahkiakum	Other	Glyphosate	0.0300 Gal	0.3000
2016	Germany Creek	Wahkiakum	Other	Adjuvant(s)	0.0050 Gal	0.2500
2016	Grays River	Wahkiakum	Reed Canary Grass	Glyphosate	1.3050 Gal	5.5000
2016	Grays River	Wahkiakum	Other	Glyphosate	0.2250 Gal	0.5000
2016	Grays River	Wahkiakum	Reed Canary Grass	Adjuvant(s)	0.2175 Gal	5.5000
2016	Grays River	Wahkiakum	Other	Adjuvant(s)	0.0375 Gal	0.5000
2016	Indian Jack Slough	Wahkiakum	Reed Canary Grass	Glyphosate	1.0500 Gal	6.5000
2016	Indian Jack Slough	Wahkiakum	Reed Canary Grass	Adjuvant(s)	0.1750 Gal	6.5000
2016	Oneida/Deep River	Wahkiakum	Loosestrife	Imazapyr	0.2190 Gal	55.0000
2016	Skamokawa Creek	Wahkiakum	Knotweeds	Imazapyr	3.5900 Gal	25.0000
2016	Skamokawa Creek	Wahkiakum	Knotweeds	Adjuvant(s)	1.7900 Gal	25.0000
2016	Bender, Benson, Depot Ditch., Double Ditch Creek, Fishtrap Creek	Whatcom	Reed Canary Grass	Glyphosate	1.0000 Gal	1.7800
2016	Canyon Creek and unnamed tributaries	Whatcom	Knotweeds	Imazapyr	0.0050 Gal	0.3800
2016	Cordata School wetlands, Bellingham	Whatcom	None	Glyphosate	0.0000 None	0.0000
2016	Cordata School wetlands, Bellingham	Whatcom	None	Triclopyr TEA	0.0000 None	0.0000
2016	multiple	Whatcom	Knotweeds	Glyphosate	0.6600 Gal	3.6000
2016	multiple	Whatcom	Knotweeds	Imazapyr	0.0600 Gal	3.6000
2016	PN Primrose Lane wetlands, Bellingham	Whatcom	None	Triclopyr TEA	0.0000 None	0.0000

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Unnamed Water Body	Snohomish	Other	Adjuvant(s)	0.0200 Gal	0.2200
2016	Wetland WRIA 7, Snohomish County	Snohomish	Loosestrife	Adjuvant(s)	0.0053 Gal	0.0069
2016	Wetland WRIA 7, Snohomish County	Snohomish	Loosestrife	Imazapyr	0.0053 Gal	0.0069
2016	Unnamed Water Body	Spokane	Other	Glyphosate	0.3900 Gal	1.0000
2016	Unnamed Water Body	Spokane	Other	Adjuvant(s)	0.3900 Gal	1.0000
2016	Unnamed Water Body	Spokane	Other	Glyphosate	0.3900 Gal	1.0000
2016	Unnamed Water Body	Spokane	Other	Adjuvant(s)	0.3900 Gal	1.0000
2016	Allen Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0167 Gal	0.1000
2016	Black River	Thurston	Loosestrife	Imazapyr	0.0117 Gal	10.0000
2016	Deschutes River	Thurston	Knotweeds	Imazapyr	1.6720 Lbs	4.4900
2016	Deschutes River	Thurston	Knotweeds	Adjuvant(s)	6.7400 Lbs	4.4900
2016	Deschutes River	Thurston	Knotweeds	Imazapyr	1.7138 Gal	3.3000
2016	Drainage into Johnson Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0111 Gal	0.1000
2016	Drainage into Spurgeon Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0223 Gal	0.1000
2016	Kennedy Creek	Thurston	Knotweeds	Imazapyr	0.0186 Gal	0.1000
2016	PEMf Wetland, drainage to Bloom's Ditch	Thurston	Yellow Flag Iris	Imazapyr	0.0009 Gal	0.1000
2016	Silver Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0019 Gal	0.1000
2016	Unnamed Class 3 Stream, drainage to Scatter Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0019 Gal	0.1000
2016	Woodard Creek	Thurston	Yellow Flag Iris	Imazapyr	0.0056 Gal	0.2000
2016	Elochoman River	Wahkiakum	Knotweeds	Glyphosate	0.4800 Gal	6.0000

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Stillaguamish	Snohomish	Spartina	Glyphosate	0.1600 Gal	0.1400
2016	Stillaguamish	Snohomish	Spartina	Adjuvant(s)	0.0700 Gal	0.1400
2016	Stillaguamish	Snohomish	Phragmites	Imazapyr	0.0500 Gal	0.0900
2016	Stillaguamish	Snohomish	Phragmites	Glyphosate	0.1100 Gal	0.0900
2016	Stillaguamish	Snohomish	Phragmites	Adjuvant(s)	0.0500 Gal	0.0900
2016	Stillaguamish	Snohomish	Knotweeds	Imazapyr	0.0400 Gal	0.0400
2016	Stillaguamish	Snohomish	Knotweeds	Glyphosate	0.0800 Gal	0.0400
2016	Stillaguamish	Snohomish	Knotweeds	Adjuvant(s)	0.0400 Gal	0.0400
2016	Stillaguamish	Snohomish	Yellow Flag Iris	Imazapyr	0.0800 Gal	0.0800
2016	Stillaguamish	Snohomish	Yellow Flag Iris	Glyphosate	0.1600 Gal	0.0800
2016	Stillaguamish	Snohomish	Yellow Flag Iris	Adjuvant(s)	0.0800 Gal	0.0800
2016	Stillaguamish	Snohomish	Other	Triclopyr TEA	1.8945 Gal	11.2000
2016	Stillaguamish	Snohomish	Other	Adjuvant(s)	1.5156 Gal	11.2000
2016	Stillaguamish	Snohomish	Knotweeds	Imazapyr	0.2564 Gal	5.3800
2016	Stillaguamish	Snohomish	Knotweeds	Adjuvant(s)	0.2051 Gal	5.3800
2016	Stillaguamish	Snohomish	Yellow Flag Iris	Glyphosate	0.2800 Gal	0.8000
2016	Swamp Creek	Snohomish	Loosestrife	Glyphosate	0.0040 Gal	0.0070
2016	Swamp Creek	Snohomish	Knotweeds	Glyphosate	0.0160 Gal	0.0010
2016	Union Slough wetland - tributary to Snohomish River	Snohomish	Phragmites	Imazapyr	0.1600 Gal	0.9800
2016	Union Slough wetland- tributary to Snohomish River	Snohomish	Phragmites	Glyphosate	0.4900 Gal	0.9800
2016	Unnamed Water Body	Snohomish	Other	Triclopyr TEA	0.7800 Gal	0.2200

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	North Creek	Snohomish	Knotweeds	Glyphosate	0.1100 Gal	1.0000
2016	Pilchuck Creek	Snohomish	Yellow Flag Iris	Glyphosate	0.0300 Gal	0.7000
2016	Pilchuck River	Snohomish	Knotweeds	Glyphosate	7.4200 Gal	34.1200
2016	Port Gardener and Tulalip Bay	Snohomish	Spartina	Imazapyr	0.0560 Gal	41.9700
2016	Port Gardener and Tulalip Bay	Snohomish	Spartina	Glyphosate	0.0800 Gal	41.9700
2016	QuilCeda Creek	Snohomish	Yellow Flag Iris	Glyphosate	0.1800 Gal	1.0000
2016	Sauk River	Snohomish	Other	Glyphosate	0.0010 Gal	0.0060
2016	Sauk River	Snohomish	Knotweeds	Imazapyr	0.0560 Gal	0.2300
2016	Skagit Bay	Snohomish	Spartina	Glyphosate	0.3850 Gal	153.4300
2016	Skagit Bay	Snohomish	Spartina	Imazapyr	0.2250 Gal	153.4300
2016	Skagit Bay	Snohomish	Spartina	Adjuvant(s)	0.2400 Gal	153.4300
2016	Skagit Bay	Snohomish	Spartina	Glyphosate	6.4300 Gal	302.1700
2016	Skagit Bay	Snohomish	Spartina	Imazapyr	3.7620 Gal	302.1700
2016	Skagit Bay	Snohomish	Spartina	Adjuvant(s)	4.0190 Gal	302.1700
2016	Skagit Bay and Port Susan	Snohomish	Spartina	Glyphosate	1.0900 Gal	720.0500
2016	Skagit Bay and Port Susan	Snohomish	Spartina	Imazapyr	0.8200 Gal	720.0500
2016	Skykomish River	Snohomish	Knotweeds	Glyphosate	2.2000 Gal	16.0000
2016	Snohomish	Snohomish	Other	Triclopyr TEA	1.7676 Gal	14.7300
2016	Snohomish	Snohomish	Other	Adjuvant(s)	1.4141 Gal	14.7300
2016	Snohomish	Snohomish	Knotweeds	Imazapyr	0.0806 Gal	11.0000
2016	Snohomish	Snohomish	Knotweeds	Adjuvant(s)	0.0645 Gal	11.0000
2016	Stillaguamish	Snohomish	Spartina	Imazapyr	0.0700 Gal	0.1400

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2016	Schoolhouse Creek	Skamania	Other	Triclopyr TEA	1.1700 Gal	7.0000
2016	Schoolhouse Creek	Skamania	Other	Adjuvant(s)	0.1950 Gal	7.0000
2016	Unnamed Water Body	Skamania	Other	Glyphosate	1.6000 Gal	3.3000
2016	Unnamed Water Body	Skamania	Other	Glyphosate	1.3400 Gal	1.8000
2016	Unnamed Water Body	Skamania	Other	Triclopyr TEA	0.9000 Gal	1.8000
2016	Washougal River	Skamania	Knotweeds	Imazapyr	0.0826 Gal	3.2600
2016	Washougal River	Skamania	Knotweeds	Adjuvant(s)	0.1800 Gal	3.2600
2016	Washougal River	Skamania	Knotweeds	Glyphosate	0.4120 Gal	8.0000
2016	Waucoma Lake	Skamania	Yellow Flag Iris	Imazapyr	0.2800 Gal	0.7500
2016	Waucoma Lake	Skamania	Yellow Flag Iris	Adjuvant(s)	0.2800 Gal	0.7500
2016	White Salmon	Skamania	Other	Glyphosate	0.0400 Gal	0.5000
2016	White Salmon	Skamania	Other	Adjuvant(s)	0.0400 Gal	0.5000
2016	Woodard Creek	Skamania	Knotweeds	Imazapyr	0.2200 Gal	17.5000
2016	Woodard Creek	Skamania	Knotweeds	Adjuvant(s)	0.2200 Gal	17.5000
2016	Woodard Creek	Skamania	Knotweeds	Glyphosate	0.0060 Gal	3.4300
2016	Hooven Bog_Bear Creek	Snohomish	Yellow Flag Iris	Imazapyr	0.0600 Gal	5.0000
2016	Hooven Bog_Bear Creek	Snohomish	Yellow Flag Iris	Glyphosate	0.6700 Gal	13.0000
2016	many	Snohomish	None	Imazamox	0.0000 None	0.0000
2016	many	Snohomish	None	Triclopyr TEA	0.0000 None	0.0000
2016	many	Snohomish	None	Glyphosate	0.0000 None	0.0000
2016	North and South Forks of the Stillaguamish River	Snohomish	Knotweeds	Glyphosate	2.3000 Gal	15.9300

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Skagit River	Skagit	Other	Imazapyr	4.1020 Gal	8.7000
2016	Swinomish Channel	Skagit	Spartina	Imazapyr	0.0040 Lbs	40.8000
2016	Swinomish Channel	Skagit	Spartina	Glyphosate	0.0050 Lbs	40.8000
2016	Bog Lake	Skamania	Yellow Flag Iris	Imazapyr	0.4800 Gal	1.0000
2016	Bog Lake	Skamania	Yellow Flag Iris	Adjuvant(s)	0.4800 Gal	1.0000
2016	Canyon Creek	Skamania	Knotweeds	Imazapyr	0.0250 Gal	1.0000
2016	Canyon Creek	Skamania	Knotweeds	Adjuvant(s)	0.0250 Gal	1.0000
2016	Collins Creek	Skamania	Knotweeds	Imazapyr	0.0530 Gal	5.0000
2016	Collins Creek	Skamania	Knotweeds	Adjuvant(s)	0.0530 Gal	5.0000
2016	Columbia River	Skamania	Other	Glyphosate	0.1700 Gal	35.0000
2016	Columbia River	Skamania	Other	Adjuvant(s)	0.0800 Gal	35.0000
2016	Columbia River	Skamania	Loosestrife	Imazapyr	0.0400 Gal	2.5000
2016	Columbia River	Skamania	Loosestrife	Adjuvant(s)	0.0200 Gal	2.5000
2016	Columbia River	Skamania	Loosestrife	Glyphosate	0.0200 Gal	2.5000
2016	Columbia River	Skamania	Knotweeds	Imazapyr	1.3450 Gal	20.0000
2016	Columbia River	Skamania	Knotweeds	Glyphosate	1.3450 Gal	20.0000
2016	Columbia River	Skamania	Knotweeds	Adjuvant(s)	1.3450 Gal	20.0000
2016	Columbia River	Skamania	Other	Glyphosate	0.1000 Gal	2.0000
2016	Hardy Creek	Skamania	Knotweeds	Imazapyr	0.0640 Gal	0.2500
2016	Hardy Creek	Skamania	Knotweeds	Adjuvant(s)	0.0640 Gal	0.2500
2016	Rand Lake	Skamania	Yellow Flag Iris	Imazapyr	0.3500 Gal	1.2500
2016	Rand Lake	Skamania	Yellow Flag Iris	Adjuvant(s)	0.3500 Gal	1.2500

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2016	Digby Creek, Digby Heights	Skagit	Other	Triclopyr TEA	0.0300 Gal	3.0000
2016	Digby Creek, Digby Heights	Skagit	Reed Canary Grass	Glyphosate	0.0300 Gal	3.0000
2016	Dunlap Bay/Mouth of North Fork of the Skagit River	Skagit	Loosestrife	Triclopyr TEA	1.1250 Lbs	7.0000
2016	Grandy Creek small tributaries	Skagit	Knotweeds	Imazapyr	0.0003 Gal	0.0160
2016	Padilla Bay	Skagit	Spartina	Imazapyr	0.0930 Lbs	58.0000
2016	Padilla Bay	Skagit	Spartina	Glyphosate	0.1240 Lbs	58.0000
2016	Samish River	Skagit	Knotweeds	Glyphosate	0.3400 Gal	1.1600
2016	Samish River	Skagit	Knotweeds	Imazapyr	0.1320 Gal	1.1600
2016	Samish River	Skagit	Knotweeds	Adjuvant(s)	0.2330 Gal	1.1600
2016	Sauk River	Skagit	None	Glyphosate	0.0000 None	0.0000
2016	Sauk River	Skagit	Knotweeds	Imazapyr	0.0120 Gal	0.0200
2016	Skagit	Skagit	Reed Canary Grass	Glyphosate	0.7100 Gal	6.5000
2016	Skagit	Skagit	Reed Canary Grass	Adjuvant(s)	0.3200 Gal	6.5000
2016	Skagit Bay	Skagit	Other	Adjuvant(s)	5.9490 Gal	8.7000
2016	Skagit Bay	Skagit	Other	Glyphosate	6.2500 Gal	10.0000
2016	Skagit Bay	Skagit	Other	Imazapyr	5.0000 Gal	10.0000
2016	Skagit Bay/Similk Bay	Skagit	Spartina	Imazapyr	0.0330 Lbs	24.3000
2016	Skagit Bay/Similk Bay	Skagit	Spartina	Glyphosate	0.0430 Lbs	24.3000
2016	Skagit River	Skagit	Knotweeds	Imazapyr	0.0130 Gal	0.0700
2016	Skagit River	Skagit	Other	Glyphosate	0.0350 Gal	0.7700
2016	Skagit River	Skagit	Other	Glyphosate	6.8390 Gal	8.7000

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2016	Willapa River	Pacific	Knotweeds	Imazapyr	13.6100 Gal	13.6100
2016	Willapa River	Pacific	Spartina	Imazapyr	0.0095 Gal	0.0190
2016	Fan Lake	Pend Oreille	Loosestrife	Glyphosate	0.0042 Gal	0.1390
2016	Moon Creek	Pend Oreille	Reed Canary Grass	Glyphosate	0.2131 Gal	2.1041
2016	Pend Oreille River	Pend Oreille	Other	Glyphosate	0.0378 Gal	1.6925
2016	Pend Oreille River	Pend Oreille	Loosestrife	Glyphosate	0.0268 Gal	0.0295
2016	Commencement Bay	Pierce	Poison Hemlock	Glyphosate	1.3100 Gal	0.6800
2016	Commencement Bay	Pierce	Other	Glyphosate	1.0100 Gal	0.9500
2016	Commencement Bay	Pierce	Reed Canary Grass	Glyphosate	0.5200 Gal	1.3500
2016	Golf Course Ponds, ditches and river bank	Pierce	Poison Hemlock	Imazapyr	1.0000 Gal	140.0000
2016	Golf Course Ponds, ditches and river bank	Pierce	Knotweeds	Imazapyr	1.0000 Gal	140.0000
2016	Ohop Creek	Pierce	Yellow Flag Iris	Imazapyr	0.5300 Gal	17.0000
2016	Ohop Creek and associated wetlands and side channels	Pierce	Reed Canary Grass	Glyphosate	0.0500 Gal	0.7500
2016	Ohop Creek and associated wetlands and side channels	Pierce	Yellow Flag Iris	Imazapyr	0.1300 Gal	0.5000
2016	puyallup river bank	Pierce	Poison Hemlock	Imazapyr	0.1500 Gal	3.3000
2016	puyallup river bank	Pierce	Knotweeds	Imazapyr	0.1500 Gal	3.3000
2016	Swan Creek	Pierce	Knotweeds	Imazapyr	0.1000 Gal	0.0100
2016	Trail along White River bank	Pierce	Poison Hemlock	Imazapyr	0.3750 Gal	3.3000
2016	Trail along White River bank	Pierce	Knotweeds	Imazapyr	0.3750 Gal	3.3000
2016	Wapato Creek	Pierce	Reed Canary Grass	Glyphosate	58.0000 Gal	18.1600

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2016	Hood Canal	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Lilliwaup Creek	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Little Mission	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Little Misson	Mason	None	Imazapyr	0.0000 None	0.0000
2016	Muhlberg Creek	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Muhlberg Creek	Mason	None	Imazapyr	0.0000 None	0.0000
2016	Sweet Water Creek	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Sweet Water Creek	Mason	None	Imazapyr	0.0000 None	0.0000
2016	Tahuya	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Tahuya	Mason	Knotweeds	Imazapyr	0.0800 Gal	154.0000
2016	Union	Mason	Knotweeds	Glyphosate	1.3800 Gal	299.0000
2016	Union	Mason	Knotweeds	Imazapyr	0.0550 Gal	4.4700
2016	Baker's Bay	Pacific	Loosestrife	Glyphosate	9.4200 Gal	6.2800
2016	Baker's Bay	Pacific	Yellow Flag Iris	Imazapyr	6.2800 Gal	6.2800
2016	Naselle River	Pacific	Knotweeds	Imazapyr	8.7500 Gal	8.7500
2016	North Nemah River	Pacific	Knotweeds	Imazapyr	0.8500 Gal	0.8500
2016	South Main Flood Control Canal	Pacific	Other	Glyphosate	6.7500 Gal	4.5000
2016	Willapa bay	Pacific	Spartina	Imazapyr	0.0210 Gal	0.1000
2016	Willapa bay	Pacific	Spartina	Adjuvant(s)	0.0100 Gal	0.1000
2016	Willapa Bay	Pacific	Spartina	Imazapyr	0.3200 Gal	0.1600
2016	Willapa Bay	Pacific	Spartina	Glyphosate	0.0380 Gal	0.0190
2016	Willapa Bay	Pacific	Spartina	Adjuvant(s)	0.0285 Gal	0.0190

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Little anderson Creek	Kitsap	Knotweeds	Triclopyr TEA	0.0025 Gal	0.0010
2016	Seabeck	Kitsap	None	Glyphosate	0.0000 None	0.0000
2016	Seabeck	Kitsap	None	Imazapyr	0.0000 None	0.0000
2016	Columbia River and tributaries	Kittitas	Loosestrife	Imazapyr	4.0000 Gal	16.0000
2016	Reecer Creek Habitat Ponds	Kittitas	Loosestrife	Imazapyr	0.3750 Gal	1.5000
2016	Unnamed Water Body	Kittitas	Other	Imazapyr	0.1250 Gal	0.2500
2016	Unnamed Water Body	Kittitas	Other	Adjuvant(s)	0.0600 Gal	0.2500
2016	Yakima River and tributaries	Kittitas	Loosestrife	Imazapyr	0.2100 Gal	1.0000
2016	Unnamed Water Body	Klickitat	Other	Glyphosate	0.3800 Gal	0.7000
2016	Unnamed Water Body	Klickitat	Other	Glyphosate	0.2000 Gal	0.4000
2016	Unnamed Water Body	Klickitat	Other	Triclopyr TEA	0.2000 Gal	0.4000
2016	Chehalis River	Lewis	Knotweeds	Imazapyr	0.0100 Gal	0.0200
2016	Chehalis River	Lewis	Knotweeds	Adjuvant(s)	0.0100 Gal	0.0200
2016	Cowlitz River	Lewis	Yellow Flag Iris	Glyphosate	0.1400 Gal	0.0450
2016	Cowlitz River	Lewis	Other	Glyphosate	0.1400 Gal	0.0450
2016	Cowlitz River	Lewis	Yellow Flag Iris	Adjuvant(s)	0.0300 Gal	0.0450
2016	Cowlitz River	Lewis	Other	Adjuvant(s)	0.0300 Gal	0.0450
2016	Big Misson	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Big Misson	Mason	None	Imazapyr	0.0000 None	0.0000
2016	Dewatto	Mason	None	Glyphosate	0.0000 None	0.0000
2016	Dewatto	Mason	Knotweeds	Imazapyr	0.0200 Gal	246.0000
2016	Hood Canal	Mason	Knotweeds	Imazapyr	0.0010 Gal	4.4700

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Wetland WRIA 15	King	Knotweeds	Triclopyr TEA	0.0238 Gal	0.0040
2016	wetland WRIA 15	King	Loosestrife	Adjuvant(s)	0.0106 Gal	0.2135
2016	wetland WRIA 15	King	Loosestrife	Imazapyr	0.0211 Gal	0.2135
2016	Wetland, WRIA 7, King County	King	Loosestrife	Adjuvant(s)	0.1641 Gal	0.3750
2016	Wetland, WRIA 7, King County	King	Loosestrife	Triclopyr TEA	0.1406 Gal	0.3750
2016	White	King	Other	Triclopyr TEA	0.0710 Gal	0.0966
2016	White	King	Knotweeds	Imazapyr	0.1010 Gal	0.7440
2016	White	King	Other	Glyphosate	0.0650 Gal	0.7000
2016	White Center Heights Ditchline	King	Knotweeds	Imazapyr	0.0100 Gal	0.0230
2016	Bainbidge island Hawley cove	Kitsap	Loosestrife	Triclopyr TEA	0.2500 Gal	0.2000
2016	Big Anderson	Kitsap	Knotweeds	Glyphosate	4.5000 Gal	122.0000
2016	Big Anderson	Kitsap	None	Imazapyr	0.0000 None	0.0000
2016	Big Anderson Creek	Kitsap	None	Glyphosate	0.0000 None	0.0000
2016	Big Anderson Creek	Kitsap	None	Imazapyr	0.0000 None	0.0000
2016	Big Beef	Kitsap	None	Glyphosate	0.0000 None	0.0000
2016	Big Beef	Kitsap	None	Imazapyr	0.0000 None	0.0000
2016	black Jack Creek	Kitsap	Knotweeds	Glyphosate	0.2500 Gal	0.2500
2016	Chico Creek	Kitsap	Knotweeds	Glyphosate	2.0000 Gal	3.0000
2016	Eglon	Kitsap	Knotweeds	Glyphosate	0.0250 Gal	0.0010
2016	Gorst Creek	Kitsap	Knotweeds	Glyphosate	0.5000 Gal	0.1300
2016	Little Anderson	Kitsap	None	Glyphosate	0.0000 None	0.0000
2016	Little Anderson	Kitsap	None	Imazapyr	0.0000 None	0.0000

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2016	Snoqualmie/Raging/Tolt/SF Skykomish	King	Other	Triclopyr TEA	0.2270 Gal	78.5950
2016	Snoqualmie/Raging/Tolt/SF Skykomish	King	Other	Glyphosate	0.0160 Gal	22.0000
2016	Snoqualmie/Raging/Tolt/SF Skykomish	King	Knotweeds	Imazapyr	0.6678 Gal	1.8900
2016	Soos Creek	King	Knotweeds	Adjuvant(s)	0.4211 Gal	51.2100
2016	Soos Creek	King	Knotweeds	Imazapyr	0.3960 Gal	51.2100
2016	South Fork Snoqualmie River	King	Knotweeds	Imazapyr	0.1000 Gal	0.3400
2016	Spring Lake	King	Loosestrife	Glyphosate	0.0448 Gal	1.8000
2016	Taylor Reach wetland area near Taylor Creek and the Cedar River	King	Other	Adjuvant(s)	0.0291 Gal	0.1134
2016	Taylor Reach wetland area near Taylor Creek and the Cedar River	King	Other	Imazamox	0.0872 Gal	0.1134
2016	Taylor Reach wetland area near Taylor Creek and the Cedar River	King	Other	Triclopyr TEA	0.0145 Gal	0.1134
2016	Three Forks Snoqualmie River	King	Loosestrife	Imazapyr	0.0200 Gal	0.0459
2016	Tye River	King	Knotweeds	Adjuvant(s)	0.0925 Gal	111.7500
2016	Tye River	King	Knotweeds	Glyphosate	0.2298 Gal	111.7500
2016	Unnamed Water Body	King	Reed Canary Grass	Glyphosate	0.0040 Gal	4.1500
2016	Unnamed Water Body	King	Reed Canary Grass	Adjuvant(s)	0.0850 Gal	4.1500
2016	Unnamed Water Body	King	Reed Canary Grass	Triclopyr TEA	0.2800 Gal	5.0000
2016	Unnamed Water Body	King	Reed Canary Grass	Glyphosate	0.3000 Gal	5.0000
2016	Unnamed Water Body	King	Reed Canary Grass	Adjuvant(s)	0.2300 Gal	5.0000
2016	Wetland WRIA 15	King	Knotweeds	Adjuvant(s)	0.0159 Gal	0.0040

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2016	Skykomish River- south fork	King	Knotweeds	Imazapyr	0.0476 Gal	22.7000
2016	Snohomish	King	Other	Triclopyr TEA	4.4141 Gal	39.5600
2016	Snohomish	King	Other	Glyphosate	0.1950 Gal	7.8200
2016	Snohomish	King	Other	Adjuvant(s)	3.5313 Gal	39.5600
2016	Snohomish	King	Knotweeds	Imazamox	2.0000 Gal	15.1700
2016	Snohomish	King	Knotweeds	Adjuvant(s)	1.6000 Gal	15.1700
2016	Snoqualmie River- mainstem	King	Loosestrife	Adjuvant(s)	0.2829 Gal	9.1758
2016	Snoqualmie River- mainstem	King	Loosestrife	Glyphosate	0.0185 Gal	0.2296
2016	Snoqualmie River- mainstem	King	Loosestrife	Imazapyr	0.0885 Gal	0.6129
2016	Snoqualmie River- mainstem	King	Loosestrife	Triclopyr TEA	0.0781 Gal	0.6129
2016	Snoqualmie River- mainstem	King	Other	Adjuvant(s)	0.0523 Gal	1.2282
2016	Snoqualmie River- mainstem	King	Other	Imazapyr	0.0523 Gal	1.2282
2016	Snoqualmie River- mainstem	King	Other	Triclopyr TEA	0.0523 Gal	1.2282
2016	Snoqualmie River- mainstem	King	Knotweeds	Glyphosate	5.0177 Gal	17.3712
2016	Snoqualmie River- mainstem	King	Loosestrife	Imazamox	0.2473 Gal	0.6129
2016	Snoqualmie River- mainstem	King	Knotweeds	Adjuvant(s)	5.3181 Gal	172.5725
2016	Snoqualmie River- middle fork	King	Knotweeds	Adjuvant(s)	0.4531 Gal	87.5400
2016	Snoqualmie River- middle fork	King	Knotweeds	Imazapyr	0.4385 Gal	87.5400
2016	Snoqualmie River- south fork	King	Knotweeds	Adjuvant(s)	4.1507 Gal	239.3266
2016	Snoqualmie River- south fork	King	Knotweeds	Glyphosate	1.9042 Gal	10.4019
2016	Snoqualmie River- south fork	King	Knotweeds	Imazapyr	3.8152 Gal	231.1745
2016	Snoqualmie River- south fork	King	Other	Glyphosate	0.0058 Gal	0.0471

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2016	Raging River	King	Loosestrife	Imazamox	0.0106 Gal	0.0275
2016	Raging River	King	Loosestrife	Triclopyr TEA	0.0053 Gal	0.0275
2016	Roaring Creek	King	Knotweeds	Adjuvant(s)	0.0238 Gal	9.9600
2016	Roaring Creek	King	Knotweeds	Imazapyr	0.0211 Gal	9.9600
2016	Ronald Bog Lake	King	Other	Adjuvant(s)	0.0159 Gal	0.0298
2016	Ronald Bog Lake	King	Other	Imazapyr	0.0159 Gal	0.0298
2016	Rutherford Slough	King	Loosestrife	Adjuvant(s)	0.6406 Gal	3.0000
2016	Rutherford Slough	King	Loosestrife	Imazapyr	0.8906 Gal	3.0000
2016	Rutherford Slough	King	Loosestrife	Triclopyr TEA	0.8906 Gal	3.0000
2016	Sammamish river	King	Loosestrife	Imazapyr	0.0132 Gal	0.0689
2016	Sammamish River	King	Loosestrife	Imazapyr	0.3125 Gal	0.9183
2016	Sammamish River	King	Loosestrife	Imazamox	0.5600 Gal	0.6209
2016	Sammamish River	King	Loosestrife	Triclopyr TEA	0.2932 Gal	0.6898
2016	Sammamish River	King	Loosestrife	Adjuvant(s)	0.2932 Gal	0.6898
2016	Shadow Lake	King	Knotweeds	Glyphosate	0.1057 Gal	0.1148
2016	Shadow Lake	King	Yellow Flag Iris	Glyphosate	0.8184 Gal	0.6683
2016	Shadow Lake	King	Knotweeds	Adjuvant(s)	0.0211 Gal	0.1148
2016	Shadow lake	King	Yellow Flag Iris	Adjuvant(s)	0.2013 Gal	0.6683
2016	Skykomish River	King	Knotweeds	Adjuvant(s)	4.5319 Gal	589.0535
2016	Skykomish River	King	Knotweeds	Glyphosate	4.8027 Gal	167.2000
2016	Skykomish River	King	Knotweeds	Imazapyr	2.7672 Gal	431.0535
2016	Skykomish River- south fork	King	Knotweeds	Adjuvant(s)	0.0502 Gal	22.7000

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2016	many	King	None	2,4-D Amine	0.0000 None	0.0000
2016	many	King	None	2,4-D Amine	0.0000 None	0.0000
2016	many	King	None	Glyphosate	0.0000 None	0.0000
2016	Many	King	Reed Canary Grass	Glyphosate	2.4300 Gal	9.2300
2016	Many	King	Reed Canary Grass	Glyphosate	0.3600 Gal	0.5000
2016	Many	King	Other	Triclopyr TEA	1.5900 Gal	11.5000
2016	Many	King	Knotweeds	Imazapyr	0.1100 Gal	0.3500
2016	Many	King	Reed Canary Grass	Imazapyr	0.0400 Gal	0.5000
2016	Many	King	Other	Adjuvant(s)	3.4500 Gal	19.0500
2016	Many	King	Other	Adjuvant(s)	0.1600 Gal	1.0000
2016	Maury Island Puget Sound	King	Other	Imazapyr	0.0025 Gal	0.0057
2016	Middle Issaquah Creek	King	Knotweeds	Imazapyr	0.0150 Gal	0.0344
2016	Moss Lake	King	Loosestrife	Adjuvant(s)	0.0106 Gal	2.3646
2016	Moss Lake	King	Loosestrife	Imazapyr	0.0106 Gal	2.3646
2016	Moss Lake	King	Loosestrife	Triclopyr TEA	0.0106 Gal	2.3646
2016	None	King	None	Triclopyr TEA	0.0000 None	0.0000
2016	North Lake	King	Loosestrife	Adjuvant(s)	0.0264 Gal	0.0735
2016	North Lake	King	Loosestrife	Imazapyr	0.0396 Gal	0.0735
2016	PSE Auburn Wetlands	King	Other	Triclopyr TEA	0.0500 Gal	2.0000
2016	PSE Auburn Wetlands	King	Reed Canary Grass	Glyphosate	0.3200 Gal	2.7500
2016	Raging River	King	Knotweeds	Imazapyr	1.3200 Gal	2.9000
2016	Raging River	King	Loosestrife	Adjuvant(s)	0.0053 Gal	0.0275

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2016	Lake Washington	King	None	Imazapyr	0.0000 None	0.0000
2016	Lake Washington	King	Knotweeds	Imazapyr	1.0000 Gal	0.3000
2016	Lake Washington	King	Loosestrife	Triclopyr TEA	0.2794 Gal	1.3774
2016	Lake Washington	King	Phragmites	Imazapyr	0.3012 Gal	0.4591
2016	Lake Washington	King	Phragmites	Adjuvant(s)	0.3012 Gal	0.4591
2016	Little Bear Creek	King	Knotweeds	Imazapyr	0.8400 Gal	3.9200
2016	Longfellow Creek	King	Other	Adjuvant(s)	0.0114 Gal	0.2296
2016	Longfellow Creek	King	Other	Glyphosate	0.0227 Gal	0.2296
2016	Luther Burbank Park, North Wetland	King	Loosestrife	Triclopyr TEA	0.0013 Gal	0.0230
2016	Luther Burbank Park, North Wetland	King	Yellow Flag Iris	Glyphosate	0.0262 Gal	0.0230
2016	Luther Burbank Park, South Wetland	King	Yellow Flag Iris	Glyphosate	0.4375 Gal	1.5000
2016	Luther Burbank, South Wetland	King	Loosestrife	Triclopyr TEA	0.0136 Gal	1.5000
2016	many	King	None	Glyphosate	0.0000 None	0.0000
2016	many	King	None	Imazamox	0.0000 None	0.0000
2016	many	King	None	Imazamox	0.0000 None	0.0000
2016	many	King	None	Imazamox	0.0000 None	0.0000
2016	many	King	None	Triclopyr TEA	0.0000 None	0.0000
2016	many	King	None	Triclopyr TEA	0.0000 None	0.0000
2016	many	King	None	2,4-D Amine	0.0000 None	0.0000
2016	many	King	None	2,4-D Amine	0.0000 None	0.0000
2016	many	King	None	2,4-D Amine	0.0000 None	0.0000

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Green River	King	Knotweeds	Glyphosate	0.0119 Gal	3.2830
2016	Green River	King	Knotweeds	Imazapyr	1.1426 Gal	145.0042
2016	Green River	King	Loosestrife	Adjuvant(s)	1.2072 Gal	148.2872
2016	Issaquah Creek	King	Knotweeds	Imazapyr	1.1800 Gal	4.1400
2016	Juanita Creek	King	Loosestrife	Adjuvant(s)	0.0687 Gal	3.3058
2016	Juanita Creek	King	Loosestrife	Triclopyr TEA	0.1374 Gal	3.3058
2016	Kiwanis Ravine Wetland	King	Other	Adjuvant(s)	0.0193 Gal	4.3000
2016	Kiwanis Ravine Wetland	King	Other	Triclopyr TEA	0.0328 Gal	4.3000
2016	Lake Desire	King	Loosestrife	Adjuvant(s)	0.0845 Gal	0.1537
2016	Lake Desire	King	Loosestrife	Glyphosate	0.1585 Gal	0.1537
2016	Lake Kathleen	King	Loosestrife	Adjuvant(s)	0.0264 Gal	0.0918
2016	Lake Kathleen	King	Loosestrife	Glyphosate	0.0793 Gal	0.0918
2016	Lake Killarney	King	Loosestrife	Adjuvant(s)	0.0198 Gal	0.0239
2016	Lake Killarney	King	Loosestrife	Imazapyr	0.0198 Gal	0.0239
2016	Lake Sammamish	King	Loosestrife	Imazapyr	1.3594 Gal	3.9945
2016	Lake Sammamish	King	Loosestrife	Adjuvant(s)	0.3263 Gal	2.5611
2016	Lake Sammamish	King	Loosestrife	Imazapyr	0.1252 Gal	0.5537
2016	Lake Sammamish	King	Loosestrife	Triclopyr TEA	0.1563 Gal	0.5000
2016	Lake Washington	King	Other	Glyphosate	0.1800 Gal	2.0000
2016	Lake Washington	King	Knotweeds	Glyphosate	0.2800 Gal	0.5000
2016	Lake Washington	King	Other	Glyphosate	0.1000 Gal	0.2000
2016	Lake Washington	King	None	Glyphosate	0.0000 None	0.0000

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2016	Cedar River	King	Other	Triclopyr TEA	0.6924 Gal	181.6100
2016	Cedar/Sammamish	King	Knotweeds	Imazapyr	0.0147 Gal	0.1000
2016	Cedar/Sammamish	King	Knotweeds	Adjuvant(s)	0.0117 Gal	0.1000
2016	Cedar/Sammamish	King	Other	Triclopyr TEA	0.0810 Gal	46.7570
2016	Cedar/Sammamish	King	Other	Glyphosate	0.0120 Gal	0.0300
2016	Cedar/Sammamish	King	Knotweeds	Imazapyr	0.7000 Gal	21.3100
2016	Clough Creek-trib of Snoq. River	King	Knotweeds	Adjuvant(s)	0.0330 Gal	7.1800
2016	Clough Creek-trib of Snoq. River	King	Knotweeds	Imazapyr	0.0317 Gal	7.1800
2016	Cottage Lake	King	Loosestrife	Imazapyr	0.0156 Gal	0.0459
2016	Cottage Lake Creek	King	Other	Adjuvant(s)	0.0026 Gal	0.0046
2016	Cottage Lake Creek	King	Knotweeds	Glyphosate	0.0079 Gal	0.0046
2016	Denny Creek	King	Knotweeds	Imazapyr	0.0625 Gal	0.1837
2016	Derby Creek	King	Knotweeds	Imazapyr	0.0195 Gal	0.0574
2016	Duwamish River	King	Knotweeds	Adjuvant(s)	1.5943 Gal	31.0300
2016	Duwamish River	King	Knotweeds	Imazapyr	1.5520 Gal	31.0300
2016	Ebright Creek	King	Loosestrife	Adjuvant(s)	0.1083 Gal	2.7319
2016	Ebright Creek	King	Loosestrife	Imazapyr	0.1083 Gal	2.7319
2016	Golden Gardens Park Wetland	King	Other	Adjuvant(s)	0.0308 Gal	24.9500
2016	Golden Gardens Park Wetland	King	Other	Triclopyr TEA	0.0473 Gal	24.9500
2016	Green	King	Other	Triclopyr TEA	1.4970 Gal	49.0530
2016	Green	King	Other	Glyphosate	0.4760 Gal	6.8700
2016	Green	King	Knotweeds	Imazapyr	0.3750 Gal	3.2770

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2016	Little Quilcene	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Little Quilcene	Jefferson	None	Imazapyr	0.0000 None	0.0000
2016	Queets	Jefferson	Other	Glyphosate	0.0026 Gal	0.4250
2016	Queets	Jefferson	Knotweeds	Imazapyr	0.0433 Gal	0.0069
2016	Spencer Creek	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Taraboo	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Taraboo	Jefferson	None	Imazapyr	0.0000 None	0.0000
2016	Bear Creek	King	None	Glyphosate	0.0000 None	0.0000
2016	Bear Creek	King	None	Imazapyr	0.0000 None	0.0000
2016	Boise Creek	King	Knotweeds	Adjuvant(s)	0.2457 Gal	20.0000
2016	Boise Creek	King	Loosestrife	Imazapyr	0.2298 Gal	20.0000
2016	Boxley Creek-trib of Snoq. River	King	Knotweeds	Adjuvant(s)	0.1400 Gal	12.4000
2016	Boxley Creek-trib of Snoq. River	King	Knotweeds	Imazapyr	0.0687 Gal	12.4000
2016	Carkeek Park wetland	King	Other	Adjuvant(s)	0.0599 Gal	9.8000
2016	Carkeek Park wetland	King	Other	Triclopyr TEA	0.1014 Gal	9.8000
2016	Carnation Marsh	King	Loosestrife	Imazapyr	0.0050 Gal	0.0115
2016	Cedar River	King	Knotweeds	Imazapyr	4.6100 Gal	244.6400
2016	Cedar River	King	Knotweeds	Glyphosate	5.1800 Gal	244.6400
2016	Cedar River	King	Knotweeds	Adjuvant(s)	0.8034 Gal	197.8560
2016	Cedar River	King	Knotweeds	Imazapyr	0.7915 Gal	197.8560
2016	Cedar River	King	Other	Adjuvant(s)	0.1651 Gal	181.3000
2016	Cedar River	King	Other	Glyphosate	0.1448 Gal	49.1000

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2016	Deer Lagoon Canal	Island	None	Imazapyr	0.0000 None	0.0000
2016	Puget Sound	Island	Knotweeds	Adjuvant(s)	0.0469 Gal	1.0000
2016	Puget Sound	Island	Knotweeds	Glyphosate	0.3750 Gal	1.0000
2016	Puget Sound	Island	Knotweeds	Imazapyr	0.0586 Gal	1.0000
2016	Puget Sound	Island	None	2,4-D Amine	0.0000 None	0.0000
2016	Skagit Bay	Island	Spartina	Glyphosate	3.2800 Gal	363.9600
2016	Skagit Bay	Island	Spartina	Imazapyr	1.9190 Gal	363.9600
2016	Skagit Bay	Island	Spartina	Adjuvant(s)	2.0500 Gal	363.9600
2016	Big Quilcene	Jefferson	Knotweeds	Glyphosate	1.5300 Gal	240.0000
2016	Big Quilcene	Jefferson	None	Imazapyr	0.0000 None	0.0000
2016	Dosewallips	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Dosewallips	Jefferson	Knotweeds	Imazapyr	0.0500 Gal	5718.0000
2016	Dosewallips River	Jefferson	Knotweeds	Imazapyr	0.0100 Gal	0.1000
2016	Dosewallips River	Jefferson	Reed Canary Grass	Imazapyr	0.0200 Gal	0.2000
2016	Dosewallips River	Jefferson	Other	Imazapyr	0.0700 Gal	0.8000
2016	Duckabush	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Hoh	Jefferson	Knotweeds	Imazapyr	0.0400 Gal	0.0100
2016	Hoh	Jefferson	Other	Glyphosate	0.8890 Gal	1.8830
2016	Hoh	Jefferson	Reed Canary Grass	Glyphosate	0.9239 Gal	3.2640
2016	Hoh	Jefferson	Reed Canary Grass	Imazapyr	0.0808 Gal	0.4876
2016	Hood Canal	Jefferson	None	Glyphosate	0.0000 None	0.0000
2016	Hood Canal	Jefferson	None	Imazapyr	0.0000 None	0.0000

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2016	TD-02 Project	Grant	Phragmites	Glyphosate	15.0000 Gal	30.0000
2016	TD-02 Project	Grant	Phragmites	Imazapyr	3.7500 Gal	30.0000
2016	Unnamed Water Body	Grant	Other	Glyphosate	1.5000 Gal	6.0000
2016	Unnamed Water Body	Grant	Other	Adjuvant(s)	0.5800 Gal	6.0000
2016	Unnamed Water Body	Grant	Loosestrife	Glyphosate	1.5600 Gal	5.0000
2016	Unnamed Water Body	Grant	Loosestrife	Adjuvant(s)	1.2500 Gal	5.0000
2016	Winchester Wasteway	Grant	Phragmites	Glyphosate	135.0000 Gal	270.0000
2016	Winchester Wasteway	Grant	Phragmites	Imazapyr	33.7500 Gal	270.0000
2016	Winchester Wasteway	Grant	Phragmites	Adjuvant(s)	135.0000 Lbs	270.0000
2016	Winchester Wasteway	Grant	Yellow Flag Iris	Glyphosate	0.3750 Gal	1.0000
2016	Winchester Wasteway	Grant	Yellow Flag Iris	Adjuvant(s)	0.0625 Gal	1.0000
2016	Grays Harbor	Grays Harbor	Spartina	Glyphosate	0.0100 Gal	0.0005
2016	Grays Harbor	Grays Harbor	Spartina	Imazapyr	0.0025 Gal	0.0005
2016	Grays Harbor	Grays Harbor	Spartina	Adjuvant(s)	0.0030 Gal	0.0005
2016	Unnamed Water Body	Grays Harbor	Yellow Flag Iris	Imazapyr	0.1700 Gal	4.0000
2016	Unnamed Water Body	Grays Harbor	Yellow Flag Iris	Adjuvant(s)	0.1000 Gal	4.0000
2016	Upper Chehalis	Grays Harbor	Other	Imazapyr	1.1500 Gal	5.0000
2016	Upper Chehalis	Grays Harbor	Other	Adjuvant(s)	0.5750 Gal	5.0000
2016	Camano Chapel Retention Pond and Ditch	Island	Other	Glyphosate	0.9000 Gal	0.2400
2016	Davis Slough wetland site, Camano Island	Island	Reed Canary Grass	Glyphosate	0.1250 Gal	3.0000
2016	Davis Slough wetland site, Camano Island	Island	Other	Triclopyr TEA	0.0500 Gal	3.0000

Washington State Department of Ecology

Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	CBWAH: Abatement	Grant	Phragmites	Glyphosate	0.2250 Gal	0.6000
2016	CBWAH: Abatement	Grant	Phragmites	Imazapyr	0.0750 Gal	0.6000
2016	CBWAH: Abatement	Grant	Phragmites	Adjuvant(s)	0.0375 Gal	0.6000
2016	Frenchman Wasteway	Grant	Phragmites	Glyphosate	90.0000 Gal	180.0000
2016	Frenchman Wasteway	Grant	Phragmites	Adjuvant(s)	90.0000 Lbs	180.0000
2016	Gloyd Seeps Farm Unit	Grant	Phragmites	Glyphosate	2.5000 Gal	5.0000
2016	Gloyd Seeps Farm Unit	Grant	Phragmites	Adjuvant(s)	0.3125 Gal	5.0000
2016	Gloyd Seeps Mansfield Pond	Grant	Phragmites	Glyphosate	15.0000 Gal	30.0000
2016	Gloyd Seeps Mansfield Pond	Grant	Phragmites	Imazapyr	3.7500 Gal	30.0000
2016	Gloyd Seeps Mansfield Pond	Grant	Phragmites	Adjuvant(s)	1.8750 Gal	30.0000
2016	Lower Crab Creek	Grant	Phragmites	Glyphosate	30.0000 Gal	60.0000
2016	Lower Crab Creek	Grant	Phragmites	Imazapyr	7.5000 Gal	60.0000
2016	Lower Crab Creek	Grant	Phragmites	Adjuvant(s)	30.0000 Lbs	60.0000
2016	Moses Lake	Grant	Other	2,4-D Amine	1.2500 Gal	5.0000
2016	Moses Lake	Grant	Other	Imazapyr	1.8750 Gal	5.0000
2016	Moses Lake	Grant	Other	Adjuvant(s)	1.8750 Gal	5.0000
2016	N. Potholes/Frog Ponds	Grant	Phragmites	Glyphosate	15.0000 Gal	30.0000
2016	N. Potholes/Frog Ponds	Grant	Phragmites	Imazapyr	3.7500 Gal	30.0000
2016	N. Potholes/Frog Ponds	Grant	Phragmites	Adjuvant(s)	15.0000 Lbs	30.0000
2016	QWLA: Evergreen	Grant	Loosestrife	Glyphosate	0.8000 Gal	1.6000
2016	QWLA: Evergreen	Grant	Loosestrife	Adjuvant(s)	0.1000 Gal	1.6000
2016	TD-02	Grant	Phragmites	Adjuvant(s)	15.0000 Lbs	30.0000

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Whipple Creek	Clark	Knotweeds	Adjuvant(s)	0.0122 Gal	0.9640
2016	Whipple Creek	Clark	Knotweeds	Triclopyr TEA	0.0308 Gal	0.7890
2016	Whipple Creek	Clark	Knotweeds	Imazapyr	0.0012 Gal	0.1750
2016	Whipple Creek	Clark	Knotweeds	Glyphosate	0.0476 Gal	0.5870
2016	Woodin Creek	Clark	Knotweeds	Adjuvant(s)	0.0036 Gal	0.3500
2016	Woodin Creek	Clark	Knotweeds	Triclopyr TEA	0.0051 Gal	0.1940
2016	Woodin Creek	Clark	Knotweeds	Imazamox	0.0023 Gal	0.1560
2016	Abernathy Creek	Cowlitz	Knotweeds	Imazapyr	0.2900 Gal	0.1500
2016	Abernathy Creek	Cowlitz	Knotweeds	Glyphosate	0.5800 Gal	0.1500
2016	Abernathy Creek	Cowlitz	Knotweeds	Adjuvant(s)	0.1400 Gal	0.1500
2016	Canal Road Unit/Silver Road	Cowlitz	Loosestrife	Imazapyr	0.2500 Gal	121.0000
2016	Coweeman River	Cowlitz	Knotweeds	Imazapyr	0.5200 Gal	0.7500
2016	Coweeman River	Cowlitz	Knotweeds	Glyphosate	1.0300 Gal	0.7500
2016	Coweeman River	Cowlitz	Knotweeds	Adjuvant(s)	0.2600 Gal	0.7500
2016	Dike Access Rd Mitigated Wetland in Woodland WA	Cowlitz	Reed Canary Grass	Glyphosate	25.0000 Gal	1.0000
2016	Monahan Creek	Cowlitz	Knotweeds	Glyphosate	13.8000 Gal	7.2500
2016	Monahan Creek	Cowlitz	Knotweeds	Imazapyr	6.9000 Gal	7.2500
2016	Monahan Creek	Cowlitz	Knotweeds	Adjuvant(s)	3.4500 Gal	7.2500
2016	Toutle River	Cowlitz	Knotweeds	Imazapyr	0.0500 Gal	0.0500
2016	Toutle River	Cowlitz	Knotweeds	Glyphosate	0.1100 Gal	0.0500
2016	Toutle River	Cowlitz	Knotweeds	Adjuvant(s)	0.0300 Gal	0.0500

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Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Morgan Creek	Clark	Knotweeds	Imazapyr	0.0049 Gal	0.7660
2016	Morgan Creek	Clark	Knotweeds	Glyphosate	0.0026 Gal	0.1480
2016	Rock Creek	Clark	Knotweeds	Glyphosate	0.0188 Gal	2.5100
2016	Rock Creek	Clark	Knotweeds	Imazapyr	0.0322 Gal	12.8467
2016	Rock Creek	Clark	Knotweeds	Triclopyr TEA	0.0004 Gal	0.0920
2016	Rock Creek	Clark	Knotweeds	Adjuvant(s)	0.0158 Gal	12.9387
2016	Rock Creek	Clark	Other	Glyphosate	0.1200 Gal	2.0000
2016	Rock Creek	Clark	Other	Adjuvant(s)	0.0200 Gal	2.0000
2016	Salmon Creek	Clark	Other	Glyphosate	0.5812 Gal	24.9160
2016	Salmon Creek	Clark	Other	Adjuvant(s)	0.1435 Gal	24.6560
2016	Salmon Creek	Clark	Knotweeds	Adjuvant(s)	0.0780 Gal	64.7450
2016	Salmon Creek	Clark	Knotweeds	Triclopyr TEA	0.0119 Gal	0.6690
2016	Salmon Creek	Clark	Knotweeds	Imazapyr	0.1513 Gal	64.0760
2016	Salmon Creek	Clark	Knotweeds	Glyphosate	0.1675 Gal	58.0660
2016	Unnamed Water Body	Clark	Loosestrife	Glyphosate	0.6100 Gal	13.0000
2016	Unnamed Water Body	Clark	Loosestrife	Adjuvant(s)	0.2300 Gal	13.0000
2016	Unnamed Water Body	Clark	Yellow Flag Iris	Triclopyr TEA	0.1800 Gal	1.5000
2016	Unnamed Water Body	Clark	Yellow Flag Iris	Glyphosate	0.1400 Gal	1.5000
2016	Unnamed Water Body	Clark	Yellow Flag Iris	Adjuvant(s)	0.1000 Gal	1.5000
2016	Washougal River	Clark	Other	Glyphosate	0.0300 Gal	1.0000
2016	Washougal River	Clark	Other	Adjuvant(s)	0.0050 Gal	1.0000
2016	Washougal River	Clark	Other	Triclopyr TEA	0.1800 Gal	2.0000

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Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Columbia River	Clark	Other	Glyphosate	0.7500 Gal	0.5000
2016	Columbia River	Clark	Poison Hemlock	Glyphosate	0.0300 Gal	1.0000
2016	Columbia River	Clark	Other	Adjuvant(s)	0.0225 Gal	0.5000
2016	Columbia River	Clark	Poison Hemlock	Adjuvant(s)	0.0050 Gal	1.0000
2016	Cougar Creek	Clark	Knotweeds	Adjuvant(s)	0.0044 Gal	0.3560
2016	Cougar Creek	Clark	Knotweeds	Triclopyr TEA	0.0039 Gal	0.1540
2016	Cougar Creek	Clark	Knotweeds	Imazapyr	0.0054 Gal	0.2020
2016	Cougar Creek	Clark	Knotweeds	Glyphosate	0.0541 Gal	0.1540
2016	Curtin Creek	Clark	Knotweeds	Adjuvant(s)	0.0052 Gal	0.3030
2016	Curtin Creek	Clark	Knotweeds	Imazapyr	0.0106 Gal	0.3030
2016	East Fork Lewis River	Clark	Knotweeds	Adjuvant(s)	0.0286 Gal	5.9400
2016	East Fork Lewis River	Clark	Knotweeds	Imazapyr	0.0580 Gal	5.9400
2016	East Fork Lewis River	Clark	Knotweeds	Glyphosate	0.3379 Gal	4.0200
2016	East Fork Lewis River	Clark	Reed Canary Grass	Triclopyr TEA	0.1250 Gal	0.5040
2016	East Fork Lewis River	Clark	Reed Canary Grass	Glyphosate	0.3750 Gal	0.5040
2016	Lackamas Creek	Clark	Knotweeds	Adjuvant(s)	0.0035 Gal	0.2230
2016	Lackamas Creek	Clark	Knotweeds	Imazapyr	0.0073 Gal	0.2230
2016	Lackamas Creek	Clark	Knotweeds	Glyphosate	0.4185 Gal	0.2230
2016	Mill Creek	Clark	Knotweeds	Adjuvant(s)	0.0003 Gal	0.0350
2016	Mill Creek	Clark	Knotweeds	Triclopyr TEA	0.0006 Gal	0.0350
2016	Morgan Creek	Clark	Knotweeds	Adjuvant(s)	0.0030 Gal	0.8790
2016	Morgan Creek	Clark	Knotweeds	Triclopyr TEA	0.0105 Gal	0.2610

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Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Big River	Clallam	Knotweeds	Glyphosate	1.7700 Gal	67.4000
2016	Big River	Clallam	Knotweeds	Imazapyr	0.2800 Gal	67.4000
2016	Big River	Clallam	Knotweeds	Adjuvant(s)	0.6300 Gal	67.4000
2016	Bogachiel River	Clallam	Knotweeds	Imazapyr	0.1000 Gal	0.7600
2016	Bogachiel River	Clallam	Knotweeds	Imazapyr	0.8000 Gal	77.0000
2016	Dickey River	Clallam	Knotweeds	Imazapyr	1.2000 Gal	74.0000
2016	Dungeness River	Clallam	Poison Hemlock	Triclopyr TEA	0.1300 Gal	2.4000
2016	Dungeness River	Clallam	Other	Triclopyr TEA	0.0220 Gal	0.4000
2016	Dungeness River	Clallam	Knotweeds	Imazapyr	0.0750 Gal	0.2000
2016	Dungeness River	Clallam	Other	Imazapyr	0.1125 Gal	0.3000
2016	Elwha river and floodplain	Clallam	Reed Canary Grass	Glyphosate	11.7600 Gal	401.8500
2016	Elwha river and floodplain	Clallam	Other	Triclopyr TEA	16.1200 Gal	447.9300
2016	Elwha river and floodplain	Clallam	Other	Adjuvant(s)	5.6800 Gal	643.8900
2016	Hoko River	Clallam	Knotweeds	Glyphosate	0.1000 Gal	5.0000
2016	Peabody Creek	Clallam	Knotweeds	Imazapyr	0.1000 Gal	0.3500
2016	Quileute River	Clallam	Knotweeds	Imazapyr	0.2000 Gal	1.7500
2016	Quillayute	Clallam	Other	Glyphosate	0.2300 Gal	0.1500
2016	Quillayute River	Clallam	Knotweeds	Imazapyr	14.4000 Gal	193.3000
2016	Sol Duc River	Clallam	Knotweeds	Imazapyr	0.2000 Gal	114.0000
2016	Sol Duc River	Clallam	Knotweeds	Glyphosate	0.9400 Gal	45.0000
2016	Sol Duc River	Clallam	Knotweeds	Imazapyr	0.4000 Gal	40.0000
2016	Wisen Creek	Clallam	Knotweeds	Glyphosate	0.4000 Gal	3.0000

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Aquatic Noxious Weed Annual Treatment Report Data

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Application Year	Waterbody Name	County	Targeted Plant	Herbicide Used	Amount Applied	Acres Treated
2016	Saddle Mountain	Adams	Phragmites	Glyphosate	0.1500 Gal	0.4000
2016	Saddle Mountain	Adams	Phragmites	Imazapyr	0.0500 Gal	0.4000
2016	Saddle Mountain	Adams	Phragmites	Adjuvant(s)	0.0250 Gal	0.4000
2016	Yakima River	Benton	Other	Glyphosate	0.5775 Gal	9.8400
2016	Yakima River	Benton	Other	Adjuvant(s)	0.5150 Gal	9.8400
2016	Columbia River	Chelan	None	2,4-D Amine	0.0000 None	0.0000
2016	Columbia River	Chelan	None	Imazapyr	0.0000 None	0.0000
2016	Columbia River	Chelan	Yellow Flag Iris	Glyphosate	0.1100 Gal	1.3000
2016	Columbia River	Chelan	Other	Triclopyr TEA	2.0000 Gal	18.0000
2016	Columbia River (Entiat & Vicinity)	Chelan	Knotweeds	Glyphosate	0.0400 Gal	0.0140
2016	Columbia River (Entiat & Vicinity)	Chelan	Knotweeds	Imazapyr	0.0200 Gal	0.0140
2016	Columbia River (Wenatchee & Vicinity)	Chelan	Knotweeds	Imazapyr	0.1000 Gal	0.2100
2016	Columbia River (Wenatchee & Vicinity)	Chelan	None	Glyphosate	0.0000 None	0.0000
2016	Lake Chelan Drainage	Chelan	None	Glyphosate	0.0000 None	0.0000
2016	Lake Chelan Drainage	Chelan	Knotweeds	Imazapyr	0.1000 Gal	0.1200
2016	Wenatchee River (Mission Cr.)	Chelan	Knotweeds	Imazapyr	0.1250 Gal	0.1300
2016	Wenatchee River (Mission Cr.)	Chelan	None	Glyphosate	0.0000 None	0.0000
2016	Wenatchee River Mainstem	Chelan	Knotweeds	Imazapyr	0.2000 Gal	0.4200
2016	Wenatchee River Mainstem	Chelan	None	Glyphosate	0.0000 None	0.0000
2016	Wenatchee River Tribs	Chelan	Knotweeds	Glyphosate	0.0200 Gal	0.0100
2016	Wenatchee River Tribs	Chelan	Knotweeds	Imazapyr	0.3000 Gal	0.2800

2016 Freshwater Emergent Weed Monitoring Report

For

Herbicide Applications to Freshwater Emergent Noxious and Quarantine Weeds performed under the Noxious Weed National Pollutant Discharge Elimination System (NPDES) Permit WAG993000

Prepared by

Washington State Department of Agriculture
Pest Program
January 2017

NPDES WAG993000 requires that the Washington State Department of Agriculture (WSDA) submit an annual freshwater emergent weed monitoring plan to the Washington State Department of Ecology (WSDOE) and conduct monitoring as necessary.

WSDA proposed to monitor a subset of imazamox, bispyribacsodium, penoxsulam, flumioxazin, or carfentrazone-ethyl treatments if these active ingredients were used under the permit in 2016. In response to three years of favorable monitoring results, Ecology suspended WSDA's monitoring requirement for imazamox on April 4, 2016. No applications of any of the other active ingredients in question occurred.

Signatory Page

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiries of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Jim Marra, Ph.D.
Acting Pest Program Manager
Washington State Department of Agriculture

2017 Freshwater Emergent Weed Monitoring Plan

For

Herbicide Applications to Freshwater Emergent Noxious and Quarantine Weeds performed under the Noxious Weed National Pollutant Discharge Elimination System (NPDES) Permit WAG9993000

Prepared by

Washington State Department of Agriculture
Pest Program
January 2017

NPDES WAG993000 requires that the Washington State Department of Agriculture (WSDA) submit an annual freshwater emergent weed monitoring plan to the Washington State Department of Ecology (WSDOE).

WSDA plans to monitor a subset of bispyribacsodium, penoxsulam, flumioxazin, or carfentrazone-ethyl applications if the agency or its limited agents propose to use these active ingredients under the permit. WSDA will use the WSDOE on-line permit application database to identify entities requesting to use the above products and then develop specific monitoring goals when the information becomes available.

Signatory Page

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiries of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Jim Marra, Ph.D.
Acting Pest Program Manager
Washington State Department of Agriculture