

*Rogue-South Coast Multi-Species Conservation and Management Plan*

Hatchery Program Summaries

2022

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Annual RSP Hatchery Program Summaries (2022)

| HATCHERY PROGRAM SUMMARY   |                                |                       |                          |                                   |                |               |
|--|--------------------------------|-----------------------|--------------------------|-----------------------------------|----------------|---------------|
| <b>Species:</b>  | <b>Steelhead</b>               | ID:                   | CHE-StW                  |                                   |                |               |
| <b>Run:</b>  | <b>Winter</b>                  | <b>Stock Name:</b>    | <b>Chetco River (96)</b> |                                   |                |               |
| SMU:   | Rogue–South Coast              | Program Type:         | Harvest: Augmentation    |                                   |                |               |
| Population Area:   | Chetco                         | Broodstock Type:      | Local, integrated        |                                   |                |               |
| <b>Management Area/s:</b>  | <b>Chetco R: Below Nook Cr</b> | Program Duration:     | 1969 - Ongoing           |                                   |                |               |
| FACILITIES/LOCATIONS   |                                |                       |                          |                                   |                |               |
| Name   | Latitude                       | Longitude             | Operated By              | Activities                        |                |               |
| Chetco River   | various locations              |                       | District/STEP            | Collect (Angler-Caught), Release  |                |               |
| Elk River Hatchery   | 42.73889                       | -124.4028             | Hatchery                 | Hold, Spawn, Incubate, Rear       |                |               |
| BROODSTOCK <sup>a</sup> AND RELEASE (N/A = not available)  |                                |                       |                          |                                   |                |               |
| Brood Year   | Hatchery Origin Brood          | Natural Origin Brood  | % Natural Origin Brood   |                                   | Smolt Release  |               |
| 2021   | 3                              | 54                    | 90%                      |                                   | 8,535          |               |
| 2022   | 14                             | 43                    | 75%                      |                                   | N/A            |               |
|  |                                |                       |                          |                                   | <i>Average</i> | 8,535         |
|  |                                |                       |                          |                                   | <b>Target</b>  | <b>50,000</b> |
| Release Locations  | Target                         | Stage                 | Size (#/lb)              | Mark/s                            | Timing         |               |
| Chetco River   | 50,000                         | Smolt                 | 6                        | AD                                | March-April    |               |
| HATCHERY RETURNS (N/A = not available; "-" = not applicable)   |                                |                       |                          |                                   |                |               |
| Return Year <sup>1</sup>   | Ocean Harvest                  | Bay and River Harvest |                          | Retained at Hatchery <sup>2</sup> |                |               |
| 2022   | -                              | 510                   |                          | 17                                |                |               |
| <i>Average</i>   |                                | 510                   |                          | 17                                |                |               |
| <sup>1</sup> Includes returns from multiple brood years; 2026 return year will be first with majority of return from post-RSP brood years<br><sup>2</sup> Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.) |                                |                       |                          |                                   |                |               |
| PROGRAM NOTES  |                                |                       |                          |                                   |                |               |
| <sup>a</sup> Angler-caught wild broodstock are live spawned at ERH and then transported back to the Chetco River and released.   |                                |                       |                          |                                   |                |               |

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| HATCHERY PROGRAM SUMMARY  |                          |                                    |                         |   |                |
|---|--------------------------|------------------------------------|-------------------------|---|----------------|
| <b>Species:</b>   | <b>Steelhead</b>         | ID:                                | ROG-StW                 |   |                |
| <b>Run:</b>   | <b>Winter</b>            | <b>Stock Name:</b>                 | <b>Rogue River (52)</b> |   |                |
| SMU:  | Rogue–South Coast        | Program Type:                      | Mitigation              |   |                |
| Population Area:  | Upper Rogue              | Broodstock Type:                   | Local, integrated       |   |                |
| <b>Management Area/s:</b>   | <b>Upper Rogue Urban</b> | Program Duration:                  | 1972 - Ongoing          |   |                |
| FACILITIES/LOCATIONS  |                          |                                    |                         |   |                |
| Name  | Latitude                 | Longitude                          | Operated By             | Activities                                    |                |
| Cole Rivers Hatchery  | 42.6636                  | -122.6836                          | Hatchery                | Capture, Hold, Spawn, Incubate, Rear, Release |                |
| BROODSTOCK AND RELEASE (N/A = not available)  |                          |                                    |                         |   |                |
| Brood Year  | Hatchery Origin Brood    | Natural Origin Brood               | % Natural Origin Brood  |   | Smolt Release  |
| 2021  | 722                      | 73                                 | 9%                      |   | N/A            |
| 2022  | 388                      | 49                                 | 11%                     |   | N/A            |
| <i>Average</i>  |                          |                                    |                         |   |                |
| <b>Target</b>   |                          |                                    |                         |   | <b>132,000</b> |
| Release Locations   | Target                   | Stage                              | Size (#/lb)             | Mark/s  | Timing         |
| Cole Rivers Hatchery  | 132,000                  | Smolt                              | 4                       | AD  | late April     |
| HATCHERY RETURNS (N/A = not available; "-" = not applicable)  |                          |                                    |                         |   |                |
| Return Year <sup>1</sup>  | Ocean Harvest            | Bay and River Harvest <sup>2</sup> |                         | Returns to Hatchery <sup>3</sup>              |                |
| 2022  | -                        | 1,189                              |                         | 1,085   |                |
| <i>Average</i>  |                          | <i>1,189</i>                       |                         | <i>1,085</i>                                  |                |
| <sup>1</sup> Includes returns from multiple brood years; 2026 return year will be first with majority of return from post-RSP brood years<br><sup>2</sup> Total estimated adult hatchery winter steelhead harvest in the Rogue Basin; does not include half-pounder harvest.<br><sup>3</sup> Return of hatchery steelhead after harvest in downstream fisheries (from end of season hatchery trap tally). |                          |                                    |                         |   |                |
| PROGRAM NOTES   |                          |                                    |                         |   |                |

Annual RSP Hatchery Program Summaries (2022)

| HATCHERY PROGRAM SUMMARY   |   |                       |                        |                                  |                |                      |
|--|---|-----------------------|------------------------|----------------------------------|----------------|----------------------|
| <b>Species:</b>  | <b>Steelhead</b>                                    | ID:                   | APP-StW                |                                  |                |                      |
| <b>Run:</b>  | <b>Winter</b>                                       | <b>Stock Name:</b>    | <b>Applegate (62)</b>  |                                  |                |                      |
| SMU:   | Rogue–South Coast                                   | Program Type:         | Mitigation             |                                  |                |                      |
| Population Area:   | Middle Rogue/Applegate                              | Broodstock Type:      | Local, integrated      |                                  |                |                      |
| <b>Management Area/s:</b>  | <b>Applegate: below Dam,<br/>Middle Rogue Urban</b> | Program Duration:     | 1981 - Ongoing         |                                  |                |                      |
| FACILITIES/LOCATIONS   |   |                       |                        |                                  |                |                      |
| Name   | Latitude  | Longitude             | Operated By            | Activities                       |                |                      |
| Applegate Collection Facility  | 42.0577   | -123.1140             | Hatchery               | Capture                          |                |                      |
| Cole Rivers Hatchery   | 42.6636   | -122.6836             | Hatchery               | Hold, Spawn, Incubate, Rear      |                |                      |
| Applegate River  | 42.0578   | -123.0758             | Hatchery               | Release                          |                |                      |
| Greens Cr Acclimation  | 42.4247   | -123.2593             | STEP                   | Acclimate, Release               |                |                      |
| Skunk Cr Acclimation   | 42.4307   | -123.3215             | STEP                   | Acclimate, Release               |                |                      |
| Jump Off Joe Cr Acclimation  | 42.5289   | -123.4897             | STEP                   | Acclimate, Release               |                |                      |
| BROODSTOCK AND RELEASE (N/A = not available)   |   |                       |                        |                                  |                |                      |
| Brood Year   | Hatchery Origin Brood                               | Natural Origin Brood  | % Natural Origin Brood |                                  | Smolt Release  |                      |
| 2021   | 381   | 14                    | 4%                     |                                  | N/A            |                      |
| 2022   | 363   | 13                    | 3%                     |                                  | N/A            |                      |
|  |   |                       |                        |                                  | <i>Average</i> |                      |
|  |   |                       |                        |                                  | <b>Target</b>  | <b>131,000</b>       |
| Release Locations <sup>a</sup>   | Target  | Stage                 | Size (#/lb)            | Mark/s                           | Timing         | Management Area      |
| Applegate River  | 96,000  | Smolt                 | 4                      | AD                               | mid-late Apr   | Applegate: below Dam |
| Greens Cr Acclimation  | 10,000  | Smolt                 | 4                      | AD                               | mid-late Apr   | Middle Rogue Urban   |
| Skunk Cr Acclimation   | 10,000  | Smolt                 | 4                      | AD                               | mid-late Apr   | Middle Rogue Urban   |
| Jump Off Joe Cr Acclimation <sup>b</sup>   | 15,000  | Smolt                 | 4                      | AD                               | mid-late Apr   | Middle Rogue Urban   |
| HATCHERY RETURNS (N/A = not available; "-" = not applicable)   |   |                       |                        |                                  |                |                      |
| Return Year <sup>1</sup>   | Ocean Harvest                                       | Bay and River Harvest |                        | Returns to Hatchery <sup>2</sup> |                |                      |
| 2022   | -   | See ROG-STW           |                        | 745                              |                |                      |
| <i>Average</i>   |   |                       |                        | 745                              |                |                      |
| <sup>1</sup> Includes returns from multiple brood years; 2026 return year will be first with majority of return from post-RSP brood years<br><sup>2</sup> Return of hatchery steelhead after harvest in downstream fisheries (from end of season hatchery trap tally).   |   |                       |                        |                                  |                |                      |
| PROGRAM NOTES  |   |                       |                        |                                  |                |                      |
| <sup>a</sup> Releases at Greens Creek and Skunk Creek acclimation sites began in 2017 and use stock 52 winter steelhead from Applegate production originally. Release numbers may vary between the two release sites.<br><sup>b</sup> RSP shifted 15,000 smolts from Applegate River release to new release at Jump Off Joe Cr acclimation site. |   |                       |                        |                                  |                |                      |

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| HATCHERY PROGRAM SUMMARY  |  |                                    |                        |   |                |                    |
|---|--|------------------------------------|------------------------|---|----------------|--------------------|
| <b>Species:</b>   | <b>Steelhead</b>                                 | ID:                                | ROG-StS                |   |                |                    |
| <b>Run:</b>   | <b>Summer</b>                                    | Stock Name:                        | Rogue River (52)       |   |                |                    |
| SMU:  | Rogue–South Coast                                | Program Type:                      | Mitigation             |   |                |                    |
| Population Area:  | Upper Rogue,<br>Middle Rogue/Applegate           | Broodstock Type:                   | Local, integrated      |   |                |                    |
| <b>Management Area/s:</b>   | <b>Upper Rogue Urban,<br/>Middle Rogue Urban</b> | Program Duration:                  | 1972 - Ongoing         |   |                |                    |
| FACILITIES/LOCATIONS  |  |                                    |                        |   |                |                    |
| Name  | Latitude   | Longitude                          | Operated By            | Activities                                    |                |                    |
| Cole Rivers Hatchery  | 42.6636  | -122.6836                          | Hatchery               | Capture, Hold, Spawn, Incubate, Rear, Release |                |                    |
| Rogue River near Gold Hill  | 42.4374  | -123.0419                          | Hatchery               | Release                                       |                |                    |
| BROODSTOCK AND RELEASE (N/A = not available)  |  |                                    |                        |   |                |                    |
| Brood Year  | Hatchery Origin Brood                            | Natural Origin Brood               | % Natural Origin Brood |   | Smolt Release  |                    |
| 2021  | 501  | 39                                 | 7%                     |   | 220,152        |                    |
| 2022  | 230  | 112                                | 33%                    |   | N/A            |                    |
|   |  |                                    |                        |   | <i>Average</i> | 220,152            |
|   |  |                                    |                        |   | <b>Target</b>  | <b>220,000</b>     |
| Release Locations <sup>a</sup>  | Target   | Stage                              | Size (#/lb)            | Mark/s  | Timing         | Management Area    |
| Cole Rivers Hatchery  | 183,000  | Smolt                              | 4.5                    | AD  | late April     | Upper Rogue Urban  |
| Rogue River near Gold Hill  | 37,000   | Smolt                              | 4.5                    | AD  | late April     | Middle Rogue Urban |
| HATCHERY RETURNS (N/A = not available; "-" = not applicable)  |  |                                    |                        |   |                |                    |
| Return Year <sup>1</sup>  | Ocean Harvest                                    | Bay and River Harvest <sup>2</sup> |                        | Returns to Hatchery <sup>3</sup>              |                |                    |
| 2022  | -  | N/A                                |                        | N/A   |                |                    |
| <i>Average</i>  |  |                                    |                        |   |                |                    |
| <sup>1</sup> Includes returns from multiple brood years; 2026 return year will be first with majority of return from post-RSP brood years<br><sup>2</sup> Total estimated adult hatchery summer steelhead harvest in the Rogue Basin; does not include half-pounder harvest.<br><sup>3</sup> Return of hatchery steelhead after harvest in downstream fisheries (from end of season hatchery trap tally). |  |                                    |                        |   |                |                    |
| PROGRAM NOTES   |  |                                    |                        |   |                |                    |
| <sup>a</sup> Off-site release near Gold Hill is intended to reduce predation risk for naturally produced spring Chinook salmon.   |  |                                    |                        |   |                |                    |

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| HATCHERY PROGRAM SUMMARY  |  |                       |                           |   |               |                            |
|---|--|-----------------------|---------------------------|---|---------------|----------------------------|
| <b>Species:</b>   | <b>Coho</b>                                      | ID:                   | ROG-Co                    |   |               |                            |
| SMU:  | Rogue–South Coast                                | Stock Name:           | Rogue Hatchery Stock (52) |   |               |                            |
| Population Area:  | Upper Rogue,<br>Middle Rogue/Applegate           | Program Type:         | Mitigation                |   |               |                            |
| <b>Management Area/s:</b>   | <b>Upper Rogue Urban,<br/>Middle Rogue Urban</b> | Broodstock Type:      | Local, integrated         |   |               |                            |
|   |  | Program Duration:     | 1975 - Ongoing            |   |               |                            |
| FACILITIES/LOCATIONS  |  |                       |                           |   |               |                            |
| Name  | Latitude   | Longitude             | Operated By               | Activities                                    |               |                            |
| Cole Rivers Hatchery  | 42.6636  | -122.6836             | Hatchery                  | Capture, Hold, Spawn, Incubate, Rear, Release |               |                            |
| Rogue River near Gold Hill  | 42.4374  | -123.0419             | Hatchery                  | Release                                       |               |                            |
| BROODSTOCK AND RELEASE <sup>a</sup> (N/A = not available)   |  |                       |                           |   |               |                            |
| Brood Year  | Hatchery Origin Brood                            | Natural Origin Brood  | % Natural Origin Brood    |   | Smolt Release |                            |
| 2021  | 90   | 122                   | 58%                       |   | N/A           |                            |
|   |  |                       |                           | <i>Average</i>                                |               |                            |
|   |  |                       |                           | <b>Target</b>                                 |               | <b>100,000<sup>b</sup></b> |
| Release Locations   | Target   | Stage                 | Size (#/lb)               | Mark/s  | Timing        | Management Area            |
| Cole Rivers Hatchery  | 50,000   | Smolt                 | 10                        | AD  | early May     | Upper Rogue Urban          |
| Cole Rivers Hatchery  | 25,000   | Smolt                 | 10                        | AD+CWT  | early May     | Upper Rogue Urban          |
| Rogue River near Gold Hill <sup>c</sup>   | 25,000   | Smolt                 | 10                        | AD  | early May     | Middle Rogue Urban         |
| HATCHERY RETURNS (N/A = not available; "-" = not applicable)  |  |                       |                           |   |               |                            |
| Return Year <sup>1</sup>  | Ocean Harvest                                    | Bay and River Harvest |                           | Returns to Hatchery <sup>2</sup>              |               |                            |
| 2022  | N/A  | N/A                   |                           | N/A   |               |                            |
| <i>Average</i>  |  |                       |                           |   |               |                            |
| <sup>1</sup> 2025 return year will be first with majority of return from post-RSP brood years   |  |                       |                           |   |               |                            |
| <sup>2</sup> Return of hatchery coho after harvest in downstream fisheries (from end of season hatchery trap tally)                     |  |                       |                           |   |               |                            |
| PROGRAM NOTES   |  |                       |                           |   |               |                            |
| <sup>a</sup> Program release target was 200,000 smolts for many years prior to reduction in brood year 2013.                            |  |                       |                           |   |               |                            |
| <sup>b</sup> RSP increased Coho Hatchery Stock 52 release from 75,000 to 100,000 smolts, pending additional funding.                    |  |                       |                           |   |               |                            |
| <sup>c</sup> Off-site release of restored production is intended to reduce predation risk for naturally produced spring Chinook salmon. |  |                       |                           |   |               |                            |