

**Lewis River Hydroelectric Projects Settlement Agreement
Aquatic Coordination Committee (ACC)
Meeting Agenda**

Date & Time: Thursday, January 10, 2019
9:00 a.m. – 11:00 a.m.

Place: CONFERENCE CALL ONLY

Contacts: Erik Lesko: (503) 412-8401

| Time | Discussion Item |
|-------------------|--|
| 9:00 a.m. | Welcome <ul style="list-style-type: none"> ➤ Review Agenda and ACC 12/13/18 Meeting Notes ➤ Comment & Accept Agenda and 12/13/18 Meeting Notes |
| 9:10 a.m. | Public Comment Opportunity |
| 9:15 a.m. | 2018 ACC Funds Year-end Accounting |
| 9:30 a.m. | Study/Work Product Updates <ul style="list-style-type: none"> ○ H&S Subgroup Update (Review Chinook rearing group handout) ○ NOR Tracking Update; NOAA response ○ Bull trout update; Tom Wadsworth (WDFW) ○ Future Fish Passage In Lieu Decision Update; USGS ○ Merwin Upstream Passage – Status ○ Swift Floating Surface Collector – Status |
| 10:45 a.m. | <ul style="list-style-type: none"> ➤ Next Meeting's Agenda ➤ Public Comment Opportunity Note: all meeting notes and the meeting schedule can be located at: http://www.pacificorp.com/es/hydro/hl/lr.html# |
| 11:00 a.m. | Adjourn |

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]

+1 (855) 499-5252 [Toll Free]

Conference ID: 6325627

FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
January 10, 2019
Conference Call

ACC Representatives Present (11)

Kim McCune, PacifiCorp
 Chris Karchesky, PacifiCorp
 Erik Lesko, PacifiCorp
 Jeremiah Doyle, PacifiCorp
 Eli Asher, Cowlitz Indian Tribe
 Tom Wadsworth, WDFW
 Peggy Miller, WDFW
 Aaron Roberts, WDFW
 Amanda Froberg, Cowlitz PUD
 Jim Byrne, Trout Unlimited
 Steve West, LCFRB

Calendar:

| | | |
|-------------------|-------------|------------|
| February 14, 2019 | ACC Meeting | Merwin HCC |
|-------------------|-------------|------------|

| Assignments from January 10, 2019 | Status |
|--|--------------------------------|
| McCune: Resend the ACC email distribution list to Anchor QEA, consultant for PacifiCorp. | Complete – 12/17/18 |
| Tracy: Email Stage 0 webinar to the ACC for review. | Complete – 12/13/18 |

| Assignments from October 11, 2018 | Status |
|--|-----------------------------|
| Lesko – Provide Spring Chinook rearing strategies table to ACC for review. | Complete 1/10/17 |

| Parking Lot Items | Status |
|---|--------|
| Begin review of aquatic fund document edits no later than May 2019. The 2018 edits are attached to the September 13, 2018 ACC Meeting notes. Wordsmith item 4&5 of Attachment D, Evaluation Criteria. | |

Opening, Review of Agenda and Meeting Notes

Erik Lesko (PacifiCorp) called the meeting to order at 9:05am and reviewed the agenda. Lesko also reviewed the December 13, 2018 meeting notes. The meeting notes were approved with clarifying changes provided by Tom Wadsworth (WDFW) at 9:10 a.m.

Public Comment

None

2018 ACC Funds Year-end Accounting

Kim McCune (PacifiCorp) provided the following year-end accounting for the ACC accounts:

| Lewis River License Implementation | | | | | |
|---|----------------|---------|---------------|-------------------|-------|
| Lewis River Aquatics Fund - Resource Projects | | | | | |
| Sections 7.5, 7.5.1, 7.5.3, 7.5.3.1 & 7.7 | | | | | |
| Release Date | Funds Received | Expense | Interest | Balance | Notes |
| 12/31/2017 | | | | \$ 2,089,106.52 | |
| 4/30/2018 | \$ - | \$ - | \$ - | \$ 2,089,106.52 | 0 |
| 12/31/2018 | \$ - | \$ - | \$ 107,781.43 | \$ 2,183,431.50 | 0 |
| Total Spent to Date: | | | | \$ (2,229,281.00) | |
| Balance Remaining: | | | | \$ 2,183,431.50 | |

| Lewis River License Implementation | | | | | |
|---|----------------|---------|--------------|-----------------|-------|
| Lewis River Aquatics Fund - Bull Trout | | | | | |
| Sections 7.5, 7.5.1, 7.5.3, 7.5.3.1 & 7.7 | | | | | |
| Release Date | Funds Received | Expense | Interest | Balance | Notes |
| 12/31/2017 | | | | \$ 728,323.34 | |
| 12/31/2018 | \$ - | \$ - | \$ 36,964.38 | \$ 765,287.72 | 0 |
| Total Spent to Date: | | | | \$ (234,547.92) | |
| Balance Remaining: | | | | \$ 765,287.72 | |

| Lewis River License Implementation | | | | | | |
|------------------------------------|----------------|-----------------|-------------|-----------------------------------|--|--|
| Lewis River LWD Fund - Haul | | | | | | |
| Section 7.1.1 | | | | | | |
| Release Date | Funds Received | Funds Dispersed | Balance | Notes | | |
| 9/11/2017 | | | \$ 13.42 | | | |
| 4/30/2018 | \$ - | \$ (3,000.00) | \$ 13.42 | Chilton Logging (Morris Trucking) | | |
| 4/30/2018 | \$ 2,000.00 | \$ - | \$ 2,013.42 | 0 | | |
| Total Spent to Date: | | | | \$ (19,986.58) | | |
| Balance Remaining: | | | | \$ 2,013.42 | | |

| Lewis River License Implementation | | | | | | |
|------------------------------------|----------------|-----------------|--------------|----------------|--|--|
| Lewis River LWD Fund - Resource | | | | | | |
| Section 7.1.1 | | | | | | |
| Release Date | Funds Received | Funds Dispersed | Balance | Notes | | |
| 12/26/2018 | | | \$ 91,500.00 | | | |
| Total Spent to Date: | | | | \$ (18,500.00) | | |
| Balance Remaining: | | | | \$ 91,500.00 | | |

Study/Work Product Updates

In Lieu Update

Lesko informed the ACC attendees that due to the government shutdown PacifiCorp contacted the Services on January 8, 2018 and proposed an additional extension of time until March 1, 2019. McCune noted that the extension of time letter to the FERC will be filed today.

H&S Subgroup (Aquatic Technical Subgroup)

Lesko provided a Spring Chinook rearing strategies table to ACC for their review and approval ([Attachment A](#)). Lesko and the attendees discussed in detail the 5 proposed treatment groups for 2019. Lesko noted that group 1 represented the traditional release group of chinook in February from Lewis River hatchery. In 2019, 4 additional groups will be added: Groups 1 & 4; reared the same but released in February and October. Groups 2 & 3 are both February releases but the feed ration and size at release is different – 8 fpp vs 12 fpp. Also groups 2 and 3 are held at Speelyai longer before transfer to Lewis River hatchery. Group 5 represents a sub yearling June release (which is traditionally the first smolt for spring Chinook). The table as identified in [Attachment A](#) is part of the H&S program and represents a much larger release than defined by the Settlement Agreement. Normally, approval of this component of the plan would be provided in the plan and distributed for approval, however, hatchery staff need to know if this is an approved strategy so that tagging and feeding can be scheduled.

Jim Byrne (Trout Unlimited) asked why the proposal didn't add more fish to each treatment group given poor returns recently. Tom Wadsworth (WDFW) expressed that the planting goals in the proposal are limited by space and water supply at the hatcheries.

The ACC agreed to the rearing strategy as outlined in Attachment A. Input from NOAA Fisheries has been requested but due to the government shutdown their input will be delayed.

The Annual Operating Plan is ongoing and the completion goal is now Spring 2019. The H&S plan update is scheduled for completion by December 2019. In December, the H&S subgroup voted to change the group's name to the Aquatic and Technical Subgroup (ATS) to reflect the expanded technical role of the group. The next meeting is January 31, 2019.

Bull Trout Subgroup Update; Tom Wadsworth (WDFW)

Wadsworth informed the ACC attendees that the BT Subgroup activity is postponed due to government shutdown.

Merwin Fish Collection Facility and General Operations (Attachment B)

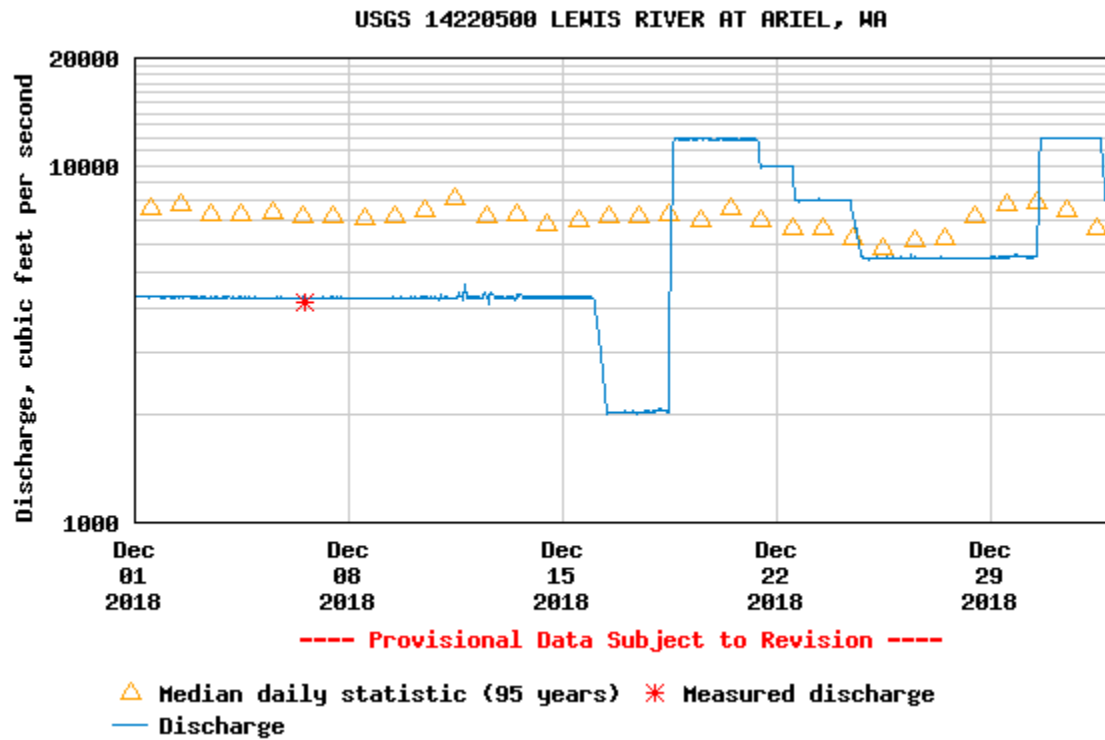
During the month of December, a total of 800 fish were captured at the Merwin Dam Adult Fish Collection Facility. The majority of these fish were hatchery winter steelhead (404 – 50%), and late run coho (369 – 46%). Blank Wire Tag (BWT) winter steelhead also began arriving in December, with a total of 7 adults collected by the end of the month.

The Merwin Trap was shut down unexpectedly on December 6, 2019 as a result of a damaged cable associated with the lift system. The trap was repaired and put back into fulltime service December 16, 2019.

River flow below Merwin Dam remained near the minimum flow requirements of 4,200 cfs (before Dec. 8) and 2,000 cfs (after Dec. 8) until December 18, 2019 when flows increased to approximately 11,900 cfs. River flow below Merwin Dam remained above 5,500 cfs for the remainder of the month.

The trap is continuing to run and PacifiCorp is gearing up for the ATE study (4th year of behavior study); replicating what we did last year for steelhead. Field work will begin end of June 2019.

Discharge, cubic feet per second



Upstream Transport ([Attachment B](#))

Nine Blank Wire Tag (BWT) winter steelhead were transported upstream above Swift Dam in December 2017. Two additional fish were transported earlier in the fall for a total of 11 BWT steelhead collected and transported in fall/winter 2017. An additional 1,216 BWT winter steelhead were transported upstream for a total of 1,227 fish transported as part of the 2018 run year. Seven BWT winter steelhead were captured in December 2018 and were transported upstream as part of the 2019 run year.

| Run Year | Male | Female | Total adult winter steelhead taken upstream of Swift Dam |
|----------|------|--------|--|
| 2012 | 141 | 48 | 189 |
| 2013 | 440 | 301 | 741 |
| 2014 | 452 | 581 | 1,033 |
| 2015 | 746 | 477 | 1,223 |
| 2016 | 378 | 376 | 754 |
| 2017 | 331 | 261 | 592 |

| | | | |
|-------------|-----|-----|--------------|
| 2018 | 682 | 535 | 1,227 |
| 2019 | 3 | 4 | 7 |

A total of 700 adult spring Chinook were transported upstream as part of the 2018 run. Of these fish, 329 were transported from the Merwin Dam Fish Collection Facility with an additional 371 fish being transported from the Lewis River Hatchery. Transported upstream were 177 females, 491 Males, and 32 jacks. By the end of June, all surplus adult spring Chinook previously being held at Lewis River Hatchery had been distributed into the upper basin or used as brood stock.

By the end of December 2018, 2,148 adult early-run coho (1,173 male/662 female) had been transported upstream along with 313 wild jacks. An additional 4,823 adult late-coho along with 89 wild jacks had also been transported upstream.

| Run Year | Early-Coho | | | Late-Coho | | | Total adult coho salmon taken upstream of Swift Dam |
|-----------------|-------------------|---------------|-------------|------------------|---------------|-------------|--|
| | Male | Female | Jack | Male | Female | Jack | |
| 2012 | 86 | 79 | 41 | - | - | - | 206 |
| 2013 | 3,858 | 3,104 | 73 | - | - | - | 7,035 |
| 2014 | 4,788 | 4,217 | 174 | - | - | - | 9,179 |
| 2015 | 211 | 89 | 19 | 1,819 | 1,605 | 11 | 3,754 |
| 2016 | 1,786 | 1,789 | 536 | 1,644 | 1,588 | 33 | 7,346 |
| 2017 | 1,652 | 1,870 | 34 | 1,602 | 1,624 | 31 | 6,813 |
| 2018 | 1,173 | 662 | 313 | 2,826 | 1,997 | 89 | 7,060 |

Swift Floating Surface Collector ([Attachment B](#))

The Swift Reservoir Floating Surface Collector was returned to service on October 15, 2018. For the month of December, only 1,045 fish had been collected. The majority (95%) of these fish were out-migrating juvenile coho (n=992).

Karchesky informed the ACC that divers are in today to begin assembly of the net transition structure (NTS) and they will start in earnest Monday, January 14 2019. The FSC remains off for the month during construction but will be turned back on February 4, 2019.

Agenda items for February 14, 2019

- January 10, 2019 Meeting Notes
- NOR Tracking Update; NOAA response
- H&S Update; Subgroup
- Study/Work Product Update

Adjourn 9:45am

Next Scheduled Meeting:

| |
|-------------------|
| February 14, 2019 |
| Conference Call |
| 9:00 a.m. - TBD |

Meeting Handouts & Attachments:

- Meeting Notes from 10/11/18
- Agenda from 11/8/18
- **Attachment A** – Treatment Groups Established for Spring Chinook Rearing Evaluation in 2019
- **Attachment B** - Lewis River Fish Passage Report (December 2018)

Treatment groups established for spring Chinook rearing evaluation in 2019

| Group | Release Month | Transfer Month to Lewis River Hatchery | Size (fpp) | Number Tagged | | | Planting Goal* | Group Description |
|-------|---------------|--|------------|---------------|----------|--------|----------------|---|
| | | | | AD Only | CWT Only | AD+CWT | | |
| 1 | February | May | 8 | 75,000 | 37,500 | 37,500 | 150,000 | Control, normal group |
| 2 | February | December | 12 | 100,000 | 37,500 | 37,500 | 175,000 | Held at Speelyai additional 6 months, lower ration |
| 3 | February | December | 8 | 75,000 | 37,500 | 37,500 | 150,000 | Held at Speelyai additional 6 months, normal ration |
| 4 | October | May | 12 | 750,000 | 37,500 | 37,500 | 825,000 | Release in October (prior to thermal stress) |
| 5 | June | NA | 80 | 850,000 | 50,000 | 50,000 | 950,000 | Release from Speelyai during first smolt |

* Includes acclimation program fish of 100,000

2,250,000

Lewis River Fish Passage Report

December 2018

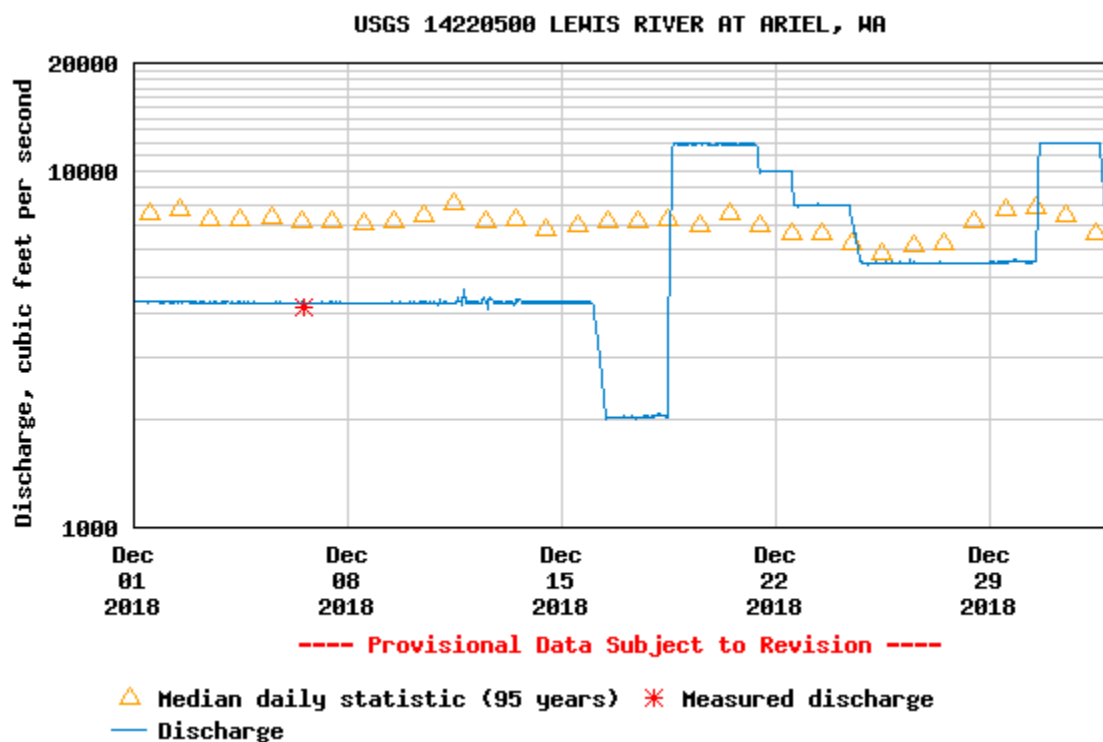
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Discharge, cubic feet per second



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Floating Surface Collector (FSC)

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Fish Facility Report
Swift Floating Surface Collector
December 2018

| Day | Coho | | | Chinook | | | Steelhead | | | | Cutthroat | | | Bull Trout | Planted Rainbow | Total |
|----------------|------|------|-------|---------|------|-------|-----------|------|-------|------|-----------|---------|---------|------------|-----------------|-------|
| | fry | parr | smolt | fry | parr | smolt | fry | parr | smolt | kelt | fry | < 13 in | > 13 in | | | |
| 01 | 0 | 6 | 18 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| 02 | 0 | 5 | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 03 | 0 | 20 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 1 | 37 |
| 04 | 0 | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 |
| 05 | 0 | 33 | 16 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| 06 | 0 | 56 | 14 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 74 |
| 07 | 8 | 68 | 10 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 91 |
| 08 | 0 | 93 | 20 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| 09 | 0 | 73 | 19 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 10 | 4 | 28 | 11 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 11 | 2 | 10 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 17 |
| 12 | 1 | 9 | 12 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 13 | 0 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 25 |
| 14 | 1 | 20 | 8 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 35 |
| 15 | 0 | 10 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 21 |
| 16 | 0 | 11 | 10 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| 17 | 0 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 18 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 19 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 20 | 10 | 5 | 9 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 21 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 22 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 23 | 8 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 22 |
| 24 | 8 | 12 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 28 | 0 | 8 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 30 |
| 29 | 0 | 17 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 30 | 8 | 20 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 31 | 0 | 26 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| Monthly | 68 | 578 | 346 | 0 | 0 | 25 | 1 | 1 | 7 | 1 | 0 | 12 | 1 | 0 | 5 | 1045 |
| Total | 998 | 4964 | 36039 | 31 | 469 | 4250 | 14 | 18 | 7869 | 19 | 4 | 854 | 18 | 7 | 2087 | 57641 |

