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SEATTLE, WASHINGTON 98112
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RECEIVED ON:

OCT - 4 2017

EPA Region 10
Office of the Regional Administrator

October 2, 2017

Via Certified Mail - Return Receipt Requested
Managing Agent
The Boeing Company
P.O. Box 3707
Seattle, WA 98124-2207

Via Certified Mail – Return Receipt Requested
Managing Agent
The Boeing Company
Boeing Developmental Center
9725 East Marginal Way South
Tukwila, WA 98108

Re: **NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND REQUEST FOR COPY OF STORMWATER POLLUTION PREVENTION PLAN**

Dear Managing Agent:

We represent Waste Action Project, P.O. Box 9281, Covington, WA 98042, (206) 849-5927. Any response or correspondence related to this matter should be directed to us at the letterhead address. This letter is to provide you with sixty days notice of Waste Action Project's intent to file a citizen suit against The Boeing Company under section 505 of the Clean Water Act ("CWA"), 33 USC § 1365, for the violations described below, occurring at the Boeing Developmental Center, 9725 East Marginal Way South, Tukwila, WA 98108. This letter is also a request for a copy of the complete and current stormwater pollution prevention plan ("SWPPP") required by Boeing's National Pollution Discharge Elimination System ("NPDES") permit.

The Washington Department of Ecology granted coverage under the Washington Industrial Stormwater General Permit issued by Ecology on October 21, 2009, effective January 1, 2010, modified May 16, 2012, effective July 1, 2012, and set to expire on January 1, 2015, under National Pollutant Discharge Elimination System Permit No. WAR000146 (the "2010 Permit"). Ecology granted Boeing coverage under the current iteration of the ISGP, issued by Ecology on December 3, 2014, effective January 2, 2015, and set to expire on December 31, 2019 (the "2015 Permit") and maintains the same permit number, WAR000146. In addition, on February 8, 2017, Ecology issued Administrative Order Docket #14012 ("Order 14012") to Boeing with respect to the conditions of the 2015 Permit.

Boeing has violated and continues to violate the terms and conditions of the 2010 Permit and the 2015 Permit (collectively, the "Permits"), and the requirements of Order 14012 with

respect to operations of, and discharges of stormwater and pollutants from, its Boeing Developmental Center (the "facility") as described herein, to the Duwamish River, or municipal stormwater facilities leading to the Duwamish River. The facility subject to this notice includes any contiguous or adjacent properties owned or operated by Boeing.

I. COMPLIANCE WITH STANDARDS.

A. Violations of Water Quality Standards.

Condition S10.A of the Permits prohibits discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington's efforts to protect clean water. In particular, water quality standards represent the U.S. Environmental Protection Agency ("EPA") and Ecology's determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the "beneficial uses" that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric criteria water quality standards. WAC 173-201A-010; WAC 173-201A-510 ("No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter."). Narrative water quality standards provide legal mandates that supplement the numeric criteria. Furthermore, the narrative water quality standard applies with equal force even if Ecology has established a numeric water quality standard. Specifically, Condition S10.A of the Permits require that Boeing's discharges not cause or contribute to an excursion of Washington State water quality standards.

Boeing discharges to the Duwamish River, or municipal stormwater facilities leading to Duwamish River, at numerous outfalls. Boeing discharges stormwater that contains elevated levels of zinc, turbidity, and copper as indicated in the table of benchmark excursions below. These discharges cause and/or contribute to violations of water quality standards for zinc, turbidity, copper, and lead in the Duwamish River, and have occurred each and every day during the last five years on which there was 0.1 inch or more of precipitation, and continue to occur. *See* WAC 173-201A-200(1)(b), (e); (2); (4); WAC 173-201A-240; WAC 173-201A-260; WAC 173-201A-600; WAC 173-201A-602. Precipitation data from that time period is appended to this notice of intent to sue and identifies these days.

TABLE 1 – Boeing Development Center Benchmark Excursions

Month/Year (and outfall)	Turb BM: 25 NTU	Zinc BM: 117 ug/L	Copper BM: 14 ug/L
4/17 (DC5)		260.5	
1/17 (DC5)		259.333	
7/16 (DC2)		199	16
7/16 (DC12)		300	37
7/16 (DC9)			17.9
7/16 (DC5)		610	
1/16 (DC5)		540	
1/16 (DC9)			15.85

1/16 (DC12)		118.5	
1/16 (DC2)		124	
10/15 (DC5)		533	
10/15 (DC9)			44.8333
7/15 (DC5)		480	
7/15 (DC9)		140	24.9
4/15 (DC12)		270	21.7
4/15 (DC9)	33.7	420	
4/15 (DC2)		410	28.2
4/15 (DC5)		1890	41.2
1/15 (DC5)		260.48	
7/14 (DC9)		158.77	
7/14 (DC2)		224.24	
7/14 (DC5)		522.02	
10/13 (DC5)		170.2	
4/13 (DC12)		134.58	
4/13 (DC5)		264.85	15.16

B. Compliance with Standards.

Condition S10.C of the Permits requires Boeing to apply all known and reasonable methods of prevention, control and treatment ("AKART") to all discharges, including preparation and implementation of an adequate SWPPP and best management practices ("BMPs"). Boeing has violated and continues to violate these conditions by failing to apply AKART to its discharges or to implement an adequate SWPPP and BMPs as evidenced by the elevated levels of pollutants in its discharge indicated in the table above and as described below in this notice of intent to sue.

Condition S1.A of the Permits requires that all discharges and activities authorized be consistent with the terms and conditions of the permits. Boeing has violated these conditions by discharging and acting inconsistent with the conditions of the Permits as described in this notice of intent to sue.

II. VIOLATIONS OF NUMERIC EFFLUENT LIMITATIONS

Condition S6.C of the Permits establishes an effluent limitation for total suspended solids ("TSS") because the facility discharges to the Duwamish River where it is 303(d) listed for sediments. The TSS effluent limitation is 30 mg/L. Boeing has violated this effluent limitation:

1. October 2015 32.8 mg/L TSS
2. June 2015 43.2 mg/L TSS
3. April 2013 52 mg/L TSS

III. STORMWATER POLLUTION PREVENTION PLAN VIOLATIONS.

On information and belief, Boeing is in violation of the Permits' SWPPP provisions as follows:

1. Condition S3.A.1 of the Permits requires Boeing to develop and implement a SWPPP as specified. Condition S3.A.2 of the Permits require the SWPPP to specify BMPs necessary to provide AKART and ensure that discharges do not cause or contribute to violations of water quality standards. On information and belief, Boeing has violated these requirements of the Permits each and every day during the last five years and continues to violate them as it has failed to prepare and/or implement a SWPPP that includes AKART BMPs and BMPs necessary to comply with state water quality standards.

2. Condition S3.A of the Permits requires Boeing to have and implement a SWPPP that is consistent with permit requirements, fully implemented as directed by permit conditions, and updated as necessary to maintain compliance with permit conditions. On information and belief, Boeing has violated these requirements of the Permits each and every day during the last five years and continues to violate them because its SWPPP is not consistent with permit requirements, has not been fully implemented and has not been updated as necessary.

3. The SWPPP fails to satisfy the requirements of Condition S3 of the Permits because it does not adequately describe BMPs. Condition S3.B.4 of the Permits require that the SWPPP include a description of the BMPs that are necessary for the facility to eliminate or reduce the potential to contaminate stormwater. Condition S3.A.3 of the Permits require that the SWPPP include BMPs consistent with approved stormwater technical manuals, including but not limited to the *Stormwater Management Manual for Western Washington*, available at http://www.ecy.wa.gov/programs/wq/stormwater/manual.html, and *Suggested Practices to Reduce Zinc Concentrations in Industrial Stormwater Discharges*, available at https://fortress.wa.gov/ecy/publications/summarypages/0810025.html, or document how stormwater BMPs included in the SWPPP are demonstratively equivalent to the practices contained in the approved stormwater technical manuals, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs. Boeing's SWPPP does not comply with these requirements because it does not adequately describe BMPs and does not include BMPs consistent with approved stormwater technical manuals nor does it include BMPs that are demonstratively equivalent to such BMPs with documentation of BMP adequacy.

4. Boeing's SWPPP fails to satisfy the requirements of Condition S3.B.2 of the Permits because it fails to include a facility assessment as mandated. The SWPPP fails to include an adequate facility assessment because it does not describe the industrial activities conducted at the site, the general layout of the facility including buildings and storage of raw materials, the flow of goods and materials through the facility, regular business hours and seasonal variations in business hours or in industrial activities as required.

5. Boeing's SWPPP fails to satisfy the requirements of Condition S3.B.1 of the Permits because it does not include a site map that identifies significant features, the stormwater drainage and discharge structures, the stormwater drainage areas for each

stormwater discharge point off-site, a unique identifying number for each discharge point, each sampling location with a unique identifying number, paved areas and buildings, areas of pollutant contact associated with specific industrial activities, conditionally approved non-stormwater discharges, surface water locations, areas of existing and potential soil erosion, vehicle maintenance areas, and lands and waters adjacent to the site that may be helpful in identifying discharge points or drainage routes.

6. Boeing's SWPPP fails to comply with Condition S3.B.2.b of the Permits because it does not include an inventory of industrial activities that identifies all areas associated with industrial activities that have been or may potentially be sources of pollutants as required. The SWPPP does not identify all areas associated with loading and unloading of dry bulk materials or liquids, outdoor storage of materials or products, outdoor manufacturing and processing, onsite dust or particulate generating processes, on-site waste treatment, storage, or disposal, vehicle and equipment fueling, maintenance, and/or cleaning, roofs or other surfaces exposed to air emissions from a manufacturing building or a process area, and roofs or other surfaces composed of materials that may be mobilized by stormwater as required by these conditions.

7. Boeing's SWPPP does not comply with Condition S3.B.2.c of the Permits because it does not include an adequate inventory of materials. The SWPPP does not include an inventory of materials that lists the types of materials handled at the site that potentially may be exposed to precipitation or runoff and that could result in stormwater pollution, a short narrative for material describing the potential for the pollutants to be present in stormwater discharge that is updated when data becomes available to verify the presence or absence of the pollutants, a narrative description of any potential sources of pollutants from past activities, materials and spills that were previously handled, treated, stored, or disposed of in a manner to allow ongoing exposure to stormwater as required. The SWPPP does not include the method and location of on-site storage or disposal of such materials and a list of significant spills and significant leaks of toxic or hazardous pollutants as these permit conditions require.

8. Boeing's SWPPP does not comply with Condition S3.B.3 of the Permits because it does not identify specific individuals by name or title whose responsibilities include SWPPP development, implementation, maintenance and modification.

9. Condition S3.B.4 of the 2010 Permit required that permittees include in their SWPPPs and implement certain mandatory BMPs no later than July 1, 2010 unless site conditions render the BMP unnecessary, infeasible, or an alternative and equally effective BMP is provided. Condition S3.B.4 of the 2015 Permit also requires that permittees include in their SWPPPs and implement mandatory BMPs subject to the same conditions. Boeing is in violation of this requirement because it has failed to include in its SWPPP and implement the mandatory BMPs of the Permits.

10. Boeing's SWPPP does not comply with Condition S3.B.4.b.i of the Permits because it does not include required operational source control BMPs in the following categories: good housekeeping (including definition of ongoing maintenance and cleanup

of areas that may contribute pollutants to stormwater discharges, and a schedule/frequency for each housekeeping task); preventive maintenance (including BMPs to inspect and maintain stormwater drainage, source controls, treatment systems, and plant equipment and systems, and the schedule/frequency for each task); spill prevention and emergency cleanup plan (including BMPs to prevent spills that can contaminate stormwater, for material handling procedures, storage requirements, cleanup equipment and procedures, and spill logs); employee training (including an overview of what is in the SWPPP, how employees make a difference in complying with the SWPPP, spill response procedures, good housekeeping, maintenance requirements, and material management practices, how training will be conducted, the frequency/schedule of training, and a log of the dates on which specific employees received training); inspections and recordkeeping (including documentation of procedures to ensure compliance with permit requirements for inspections and recordkeeping, including identification of personnel who conduct inspections, provision of a tracking or follow-up procedure to ensure that a report is prepared and appropriate action taken in response to visual monitoring, definition of how Boeing will comply with signature and record retention requirements, and certification of compliance with the SWPPP and Permit). Boeing is in violation of this condition for reasons including but not limited to failing to: add all industrial activity to its SWPPP; failure to add tank farm stormwater management protocol to the SWPPP; close the production building door when it does not need to be open; leaving dumpster and trailer lids open or uncovered; and failing to sweep process waste on ground exposed to stormwater.

11. Boeing's SWPPP does not comply with Condition S3.B.4.b.i.7 of the Permits because it does not include measures to identify and eliminate the discharge of process wastewater, domestic wastewater, noncontact cooling water, and other illicit discharges to stormwater sewers, or to surface waters and ground waters of the state.

12. Boeing's SWPPP does not comply with Condition S3.B.4.b.ii of the Permits because it does not include required structural source control BMPs to minimize the exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and runoff. Boeing's SWPPP does not comply with Condition S3.B.4.b.iii of the Permits because it does not include treatment BMPs as required.

13. Boeing's SWPPP fails to comply with Condition S3.B.4.b.v of the Permits because it does not include BMPs to prevent the erosion of soils or other earthen materials and prevent off-site sedimentation and violations of water quality standards.

14. Boeing's SWPPP fails to satisfy the requirements of Condition S3.B.5 of the Permits because it fails to include a stormwater sampling plan as required. The SWPPP does not include a sampling plan that identifies points of discharge to surface waters, storm sewers, or discrete ground water infiltration locations, documents why each discharge point is not sampled, identifies each sampling point by its unique identifying number, identifies staff responsible for conducting stormwater sampling, specifies procedures for sampling collection and handling, specifies procedures for sending samples to the a laboratory, identifies parameters for analysis, holding times and

preservatives, laboratory quantization levels, and analytical methods, and that specifies the procedure for submitting the results to Ecology.

IV. CORRECTIVE ACTION VIOLATIONS.

Condition S8.D of the Permits requires Boeing take specified actions, called a "Level Three Corrective Action," each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark range for pH for any three quarters during a calendar year. Benchmarks are identified in Condition S5.A of the Permits.

As described by Condition S8.D of the Permits, a Level Three Corrective Action requires Boeing: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permits; (2) make appropriate revisions to the SWPPP to include additional treatment BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and additional operational and/or structural source control BMPs if necessary for proper function and maintenance of treatment BMPs, and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the Permits; and (3) summarize the Level Three Corrective Action (planned or taken) in the Annual Report required under Condition S9.B of the Permits, including information on how monitoring, assessment, or evaluation information was (or will be) used to determine whether existing treatment BMPs will be modified/enhanced, or it new/additional treatment BMPs will be installed. Condition S8.D.2.b of the Permits require that a licensed professional engineer, geologist, hydrogeologist, of certified professional in storm water quality must design and stamp the portion of the SWPPP that addresses stormwater treatment structures or processes.

Condition S8.D.3 of the Permits requires that, before installing BMPs that require the site-specific design or sizing of structures, equipment, or processes to collect, convey, treat, reclaim, or dispose of industrial stormwater, that Boeing submit an engineering report, plans, and specifications, and an operations and maintenance manual to Ecology for review in accordance with chapter 173-204 of the Washington Administrative Code. The engineering report must be submitted no later than the May 15 prior to the Level Three Corrective Action Deadline. The plans and specifications and the operations and maintenance manual must be submitted to Ecology at least 30 days before construction/installation.

Condition S8.D.5 of the Permits requires Boeing fully implement the revised SWPPP according to condition S3 of the Permits and the applicable stormwater management manual as soon as possible, and no later than September 30th of the following year.

Boeing has violated the requirements of the Permits described above by failing to conduct a Level Three Corrective Action in accordance with permit conditions, for the Level Three responses it triggered in 2015 for copper and zinc (as indicated in Table 1 of this notice of intent to sue), including the: required review, revision and certification of the SWPPP; requirement to have a specified professional design and stamp the portion of the SWPPP pertaining to treatment; required implementation of additional BMPs, including additional treatment BMPs; and the required submission of an engineering report, plans, specifications, and an operations and maintenance plan.

V. VIOLATION OF ORDER 14012

Order 14012 requires of Boeing the following: (1) Pursuant to Permit Conditions S8.D.1 and S8.D.2, Boeing shall review, and revise as appropriate, the SWPPP to ensure full compliance with Permit Condition S3. Boeing shall submit the revised SWPPP to Ecology for review, not later than February 28, 2017; (2) Pursuant to Permit Condition S8.D.3, Boeing shall submit an Engineering Report, for Ecology review and approval no later than May 15, 2017; and (3) Pursuant to Permit Condition S8.D.5, Boeing shall implement the revised SWPPP, inclusive of Ecology approved treatment BMPs, no later than September 30, 2017.

Boeing is in violation of Order 14012 because it has failed to submit a SWPPP that ensures full compliance with Permit Condition S3; because it has failed to submit an Engineering Report approvable by Ecology; and because it has not implemented the requisite revised SWPPP, including Ecology-approved treatment BMPs, all as specified by the order.

VI. REQUEST FOR SWPPP.

Pursuant to Condition S9.F of the 2015 Permit, Waste Action Project hereby requests that Boeing provide a copy of, or access to, its SWPPP complete with all incorporated plans, monitoring reports, checklists, and training and inspection logs. The copy of the SWPPP and any other communications about this request should be directed to the undersigned at the letterhead address.

Should Boeing fail to provide the requested complete copy of, or access to, its SWPPP as required by Condition S9.F of the 2015 Permit, it will be in violation of that condition, which violation shall also be subject to this notice of intent to sue and any ensuing lawsuit.

VII. CONCLUSION.

The above-described violations reflect those indicated by the information currently available to Waste Action Project. These violations are ongoing. Waste Action Project intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

Under Section 309(d) of the CWA, 33 USC § 1319(d), each of the above-described violations subjects the violator to a penalty of up to $37,500 per day for each violation that occurred before November 2, 2015, and $51,570 per day for each violation that occurred thereafter. In addition to civil penalties, Waste Action Project will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the CWA, 33 USC § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the CWA, 33 USC § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Waste Action Project believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. We intend, at the close of the 60-day notice period, or shortly thereafter,

to file a citizen suit against The Boeing Company under Section 505(a) of the Clean Water Act for violations.

During the 60-day notice period, we would be willing to discuss effective remedies for the violations addressed in this letter and settlement terms. If you wish to pursue such discussions in the absence of litigation, we suggest that you initiate those discussions within 10 days of receiving this notice so that a meeting can be arranged and so that negotiations may be completed promptly. We do not intend to delay the filing of a complaint if discussions are continuing when the notice period ends.

Very truly yours,

SMITH & LOWNEY, PLLC

By: Meredith A. Crafton

Richard Smith
Meredith Crafton

cc: Scott Pruitt, Administrator, U.S. EPA
Michelle Pirzadeh, Acting Region 10 Administrator, U.S. EPA
Maia Bellon, Director, Washington Department of Ecology
Corporation Service Company, 300 Deschutes Way SW, Ste. 305, Tumwater, WA 98501

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
10/1/2012	0
10/2/2012	0
10/3/2012	0
10/4/2012	0
10/5/2012	0
10/6/2012	0
10/7/2012	0
10/8/2012	0
10/9/2012	0
10/10/2012	0
10/11/2012	0
10/12/2012	0.09
10/13/2012	0.11
10/14/2012	0.53
10/15/2012	0.21
10/16/2012	0
10/17/2012	0
10/18/2012	0.67
10/19/2012	0.07
10/20/2012	0.18
10/21/2012	0.14
10/22/2012	0.26
10/23/2012	0
10/24/2012	0.19
10/25/2012	0
10/26/2012	0.06
10/27/2012	0.75
10/28/2012	0.27
10/29/2012	0.56
10/30/2012	1.38
10/31/2012	0.65
11/1/2012	0.32
11/2/2012	0.19
11/3/2012	0.02
11/4/2012	0.21
11/5/2012	0.05
11/6/2012	0.01
11/7/2012	0
11/8/2012	0
11/9/2012	0
11/10/2012	0
11/11/2012	0.55
11/12/2012	0.13
11/13/2012	0.19
11/14/2012	0

Date	Precip. (in)
11/15/2012	0
11/16/2012	0.25
11/17/2012	0.2
11/18/2012	0.63
11/19/2012	2.51
11/20/2012	0.2
11/21/2012	0.52
11/22/2012	0.02
11/23/2012	1
11/24/2012	0
11/25/2012	0
11/26/2012	0
11/27/2012	0
11/28/2012	0.12
11/29/2012	0.11
11/30/2012	1.51
12/1/2012	0.28
12/2/2012	1
12/3/2012	0.43
12/4/2012	0.46
12/5/2012	0.02
12/6/2012	0.07
12/7/2012	0.14
12/8/2012	0
12/9/2012	0.06
12/10/2012	0
12/11/2012	0.1
12/12/2012	0.28
12/13/2012	0.11
12/14/2012	0.24
12/15/2012	0.24
12/16/2012	0.93
12/17/2012	0.1
12/18/2012	0.05
12/19/2012	1
12/20/2012	0.63
12/21/2012	0.07
12/22/2012	0.12
12/23/2012	0.39
12/24/2012	0.08
12/25/2012	0.41
12/26/2012	0.26
12/27/2012	0.27
12/28/2012	0
12/29/2012	0.06

Date	Precip. (in)
12/30/2012	0
12/31/2012	0
1/1/2013	0
1/2/2013	0
1/3/2013	0.18
1/4/2013	0.07
1/5/2013	0.1
1/6/2013	0.03
1/7/2013	0.02
1/8/2013	0.54
1/9/2013	1.14
1/10/2013	0
1/11/2013	0
1/12/2013	0
1/13/2013	0
1/14/2013	0
1/15/2013	0
1/16/2013	0
1/17/2013	0
1/18/2013	0
1/19/2013	0
1/20/2013	0
1/21/2013	0
1/22/2013	0
1/23/2013	0.21
1/24/2013	0.16
1/25/2013	0.09
1/26/2013	0.16
1/27/2013	0.01
1/28/2013	0.21
1/29/2013	0.29
1/30/2013	0.06
1/31/2013	0.08
2/1/2013	0
2/2/2013	0
2/3/2013	0.08
2/4/2013	0
2/5/2013	0.18
2/6/2013	0.09
2/7/2013	0.08
2/8/2013	0
2/9/2013	0.01
2/10/2013	0
2/11/2013	0.01
2/12/2013	0

Date	Precip. (in)
2/13/2013	0
2/14/2013	0.03
2/15/2013	0
2/16/2013	0
2/17/2013	0
2/18/2013	0
2/19/2013	0
2/20/2013	0.07
2/21/2013	0.01
2/22/2013	0.34
2/23/2013	0
2/24/2013	0.03
2/25/2013	0.13
2/26/2013	0.02
2/27/2013	0.31
2/28/2013	0.26
3/1/2013	0.12
3/2/2013	0.21
3/3/2013	0
3/4/2013	0
3/5/2013	0
3/6/2013	0.61
3/7/2013	0.26
3/8/2013	0
3/9/2013	0
3/10/2013	0.01
3/11/2013	0.03
3/12/2013	0.01
3/13/2013	0.15
3/14/2013	0.05
3/15/2013	0
3/16/2013	0.04
3/17/2013	0
3/18/2013	0
3/19/2013	0.5
3/20/2013	0.59
3/21/2013	0.1
3/22/2013	0.01
3/23/2013	0
3/24/2013	0
3/25/2013	0
3/26/2013	0
3/27/2013	0.01
3/28/2013	0.06
3/29/2013	0.01

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
3/30/2013	0
3/31/2013	0
4/1/2013	0
4/2/2013	0
4/3/2013	0
4/4/2013	0.42
4/5/2013	0.5
4/6/2013	0.37
4/7/2013	0.96
4/8/2013	0.04
4/9/2013	0
4/10/2013	0.23
4/11/2013	0.13
4/12/2013	0.18
4/13/2013	0.35
4/14/2013	0.02
4/15/2013	0
4/16/2013	0.07
4/17/2013	0
4/18/2013	0.2
4/19/2013	0.65
4/20/2013	0.01
4/21/2013	0.03
4/22/2013	0
4/23/2013	0
4/24/2013	0
4/25/2013	0
4/26/2013	0
4/27/2013	0
4/28/2013	0.1
4/29/2013	0.13
4/30/2013	0
5/1/2013	0
5/2/2013	0
5/3/2013	0
5/4/2013	0
5/5/2013	0
5/6/2013	0
5/7/2013	0
5/8/2013	0
5/9/2013	0
5/10/2013	0
5/11/2013	0
5/12/2013	0.08
5/13/2013	0.12

Date	Precip. (in)
5/14/2013	0
5/15/2013	0.03
5/16/2013	0
5/17/2013	0.02
5/18/2013	0
5/19/2013	0
5/20/2013	0
5/21/2013	0.43
5/22/2013	0.21
5/23/2013	0.08
5/24/2013	0.02
5/25/2013	0
5/26/2013	0.08
5/27/2013	0.2
5/28/2013	0.01
5/29/2013	0.17
5/30/2013	0
5/31/2013	0
6/1/2013	0
6/2/2013	0
6/3/2013	0
6/4/2013	0
6/5/2013	0
6/6/2013	0
6/7/2013	0
6/8/2013	0
6/9/2013	0
6/10/2013	0
6/11/2013	0
6/12/2013	0
6/13/2013	0
6/14/2013	0
6/15/2013	0
6/16/2013	0
6/17/2013	0
6/18/2013	0
6/19/2013	0
6/20/2013	0
6/21/2013	0.01
6/22/2013	0
6/23/2013	0
6/24/2013	0.01
6/25/2013	0.1
6/26/2013	0.56
6/27/2013	0.13

Date	Precip. (in)
6/28/2013	0
6/29/2013	0
6/30/2013	0
7/1/2013	0
7/2/2013	0
7/3/2013	0
7/4/2013	0
7/5/2013	0
7/6/2013	0
7/7/2013	0
7/8/2013	0
7/9/2013	0
7/10/2013	0
7/11/2013	0
7/12/2013	0
7/13/2013	0
7/14/2013	0
7/15/2013	0
7/16/2013	0
7/17/2013	0
7/18/2013	0
7/19/2013	0
7/20/2013	0
7/21/2013	0
7/22/2013	0
7/23/2013	0
7/24/2013	0
7/25/2013	0
7/26/2013	0
7/27/2013	0
7/28/2013	0
7/29/2013	0
7/30/2013	0
7/31/2013	0
8/1/2013	0
8/2/2013	0
8/3/2013	0
8/4/2013	0
8/5/2013	0
8/6/2013	0
8/7/2013	0
8/8/2013	0
8/9/2013	0
8/10/2013	0
8/11/2013	0

Date	Precip. (in)
8/12/2013	0
8/13/2013	0
8/14/2013	0
8/15/2013	0
8/16/2013	0
8/17/2013	0
8/18/2013	0
8/19/2013	0
8/20/2013	0
8/21/2013	0
8/22/2013	0
8/23/2013	0
8/24/2013	0
8/25/2013	0
8/26/2013	0
8/27/2013	0
8/28/2013	0
8/29/2013	0.46
8/30/2013	0
8/31/2013	0
9/1/2013	0
9/2/2013	0
9/3/2013	0.12
9/4/2013	0
9/5/2013	0.87
9/6/2013	0.68
9/7/2013	0
9/8/2013	0.01
9/9/2013	0
9/10/2013	0
9/11/2013	0
9/12/2013	0
9/13/2013	0
9/14/2013	0
9/15/2013	0.21
9/16/2013	0
9/17/2013	0
9/18/2013	0
9/19/2013	0
9/20/2013	0.15
9/21/2013	0.01
9/22/2013	0.39
9/23/2013	0.06
9/24/2013	0.01
9/25/2013	0.04

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
9/26/2013	0.01
9/27/2013	0.05
9/28/2013	1.27
9/29/2013	0.62
9/30/2013	0.62
10/1/2013	0.08
10/2/2013	0.21
10/3/2013	0
10/4/2013	0.01
10/5/2013	0
10/6/2013	0.13
10/7/2013	0.01
10/8/2013	0.39
10/9/2013	0
10/10/2013	0.03
10/11/2013	0.53
10/12/2013	0.06
10/13/2013	0
10/14/2013	0.01
10/15/2013	0
10/16/2013	0
10/17/2013	0.01
10/18/2013	0
10/19/2013	0
10/20/2013	0
10/21/2013	0
10/22/2013	0
10/23/2013	0.01
10/24/2013	0.01
10/25/2013	0.01
10/26/2013	0
10/27/2013	0.06
10/28/2013	0
10/29/2013	0
10/30/2013	0.01
10/31/2013	0.01
11/1/2013	0.03
11/2/2013	0.35
11/3/2013	0.02
11/4/2013	0.01
11/5/2013	0.05
11/6/2013	0.09
11/7/2013	0.94
11/8/2013	0
11/9/2013	0.09

Date	Precip. (in)
11/10/2013	0
11/11/2013	0
11/12/2013	0.14
11/13/2013	0
11/14/2013	0.01
11/15/2013	0.08
11/16/2013	0
11/17/2013	0.05
11/18/2013	0.8
11/19/2013	0.11
11/20/2013	0
11/21/2013	0
11/22/2013	0
11/23/2013	0.08
11/24/2013	0
11/25/2013	0
11/26/2013	0
11/27/2013	0
11/28/2013	0
11/29/2013	0.01
11/30/2013	0.06
12/1/2013	0.03
12/2/2013	0.11
12/3/2013	0.01
12/4/2013	0
12/5/2013	0
12/6/2013	0
12/7/2013	0
12/8/2013	0
12/9/2013	0
12/10/2013	0
12/11/2013	0
12/12/2013	0.22
12/13/2013	0.01
12/14/2013	0
12/15/2013	0.03
12/16/2013	0
12/17/2013	0
12/18/2013	0.04
12/19/2013	0
12/20/2013	0.1
12/21/2013	0.22
12/22/2013	0.21
12/23/2013	0.01
12/24/2013	0

Date	Precip. (in)
12/25/2013	0
12/26/2013	0
12/27/2013	0.03
12/28/2013	0
12/29/2013	0
12/30/2013	0.03
12/31/2013	0
1/1/2014	0.01
1/2/2014	0.53
1/3/2014	0.03
1/4/2014	0
1/5/2014	0
1/6/2014	0
1/7/2014	0.34
1/8/2014	0.44
1/9/2014	0.11
1/10/2014	0.15
1/11/2014	0.91
1/12/2014	0.02
1/13/2014	0.01
1/14/2014	0
1/15/2014	0
1/16/2014	0
1/17/2014	0
1/18/2014	0
1/19/2014	0
1/20/2014	0
1/21/2014	0
1/22/2014	0
1/23/2014	0
1/24/2014	0
1/25/2014	0
1/26/2014	0
1/27/2014	0
1/28/2014	0.36
1/29/2014	0.76
1/30/2014	0.01
1/31/2014	0.03
2/1/2014	0.02
2/2/2014	0
2/3/2014	0
2/4/2014	0
2/5/2014	0
2/6/2014	0
2/7/2014	0

Date	Precip. (in)
2/8/2014	0.09
2/9/2014	0.01
2/10/2014	0.54
2/11/2014	0.76
2/12/2014	0.13
2/13/2014	0
2/14/2014	0.41
2/15/2014	0.51
2/16/2014	1.43
2/17/2014	0.42
2/18/2014	0.62
2/19/2014	0.02
2/20/2014	0.03
2/21/2014	0.23
2/22/2014	0.09
2/23/2014	0.18
2/24/2014	0.39
2/25/2014	0
2/26/2014	0
2/27/2014	0
2/28/2014	0
3/1/2014	0.01
3/2/2014	0.7
3/3/2014	0.37
3/4/2014	0.42
3/5/2014	1.44
3/6/2014	0.2
3/7/2014	0
3/8/2014	1.12
3/9/2014	0.26
3/10/2014	0.42
3/11/2014	0
3/12/2014	0
3/13/2014	0
3/14/2014	0.11
3/15/2014	0.21
3/16/2014	1.08
3/17/2014	0.01
3/18/2014	0.01
3/19/2014	0
3/20/2014	0
3/21/2014	0
3/22/2014	0
3/23/2014	0
3/24/2014	0

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
3/25/2014	0.22
3/26/2014	0.06
3/27/2014	0.03
3/28/2014	0.51
3/29/2014	0.63
3/30/2014	0.02
3/31/2014	0
4/1/2014	0
4/2/2014	0
4/3/2014	0.12
4/4/2014	0
4/5/2014	0.08
4/6/2014	0
4/7/2014	0
4/8/2014	0.38
4/9/2014	0
4/10/2014	0
4/11/2014	0
4/12/2014	0
4/13/2014	0
4/14/2014	0
4/15/2014	0.01
4/16/2014	0.42
4/17/2014	0.69
4/18/2014	0
4/19/2014	0.36
4/20/2014	0
4/21/2014	0.17
4/22/2014	0.5
4/23/2014	0.24
4/24/2014	0.28
4/25/2014	0.05
4/26/2014	0.18
4/27/2014	0
4/28/2014	0
4/29/2014	0
4/30/2014	0
5/1/2014	0
5/2/2014	0
5/3/2014	1.19
5/4/2014	0.26
5/5/2014	0.24
5/6/2014	0
5/7/2014	0
5/8/2014	0.41

Date	Precip. (in)
5/9/2014	0.07
5/10/2014	0
5/11/2014	0.01
5/12/2014	0
5/13/2014	0
5/14/2014	0
5/15/2014	0
5/16/2014	0
5/17/2014	0
5/18/2014	0.04
5/19/2014	0
5/20/2014	0
5/21/2014	0
5/22/2014	0
5/23/2014	0.19
5/24/2014	0
5/25/2014	0.28
5/26/2014	0
5/27/2014	0
5/28/2014	0.03
5/29/2014	0
5/30/2014	0
5/31/2014	0
6/1/2014	0
6/2/2014	0
6/3/2014	0
6/4/2014	0
6/5/2014	0
6/6/2014	0
6/7/2014	0
6/8/2014	0
6/9/2014	0
6/10/2014	0
6/11/2014	0
6/12/2014	0
6/13/2014	0.05
6/14/2014	0
6/15/2014	0.1
6/16/2014	0.09
6/17/2014	0.05
6/18/2014	0
6/19/2014	0
6/20/2014	0
6/21/2014	0
6/22/2014	0

Date	Precip. (in)
6/23/2014	0
6/24/2014	0
6/25/2014	0
6/26/2014	0
6/27/2014	0
6/28/2014	0
6/29/2014	0
6/30/2014	0
7/1/2014	0
7/2/2014	0
7/3/2014	0
7/4/2014	0
7/5/2014	0
7/6/2014	0
7/7/2014	0
7/8/2014	0
7/9/2014	0
7/10/2014	0
7/11/2014	0
7/12/2014	0
7/13/2014	0
7/14/2014	0
7/15/2014	0
7/16/2014	0
7/17/2014	0
7/18/2014	0
7/19/2014	0
7/20/2014	0
7/21/2014	0
7/22/2014	0
7/23/2014	0
7/25/2014	0
7/26/2014	0
7/27/2014	0
7/28/2014	0
7/29/2014	0
7/30/2014	0
7/31/2014	0
8/1/2014	0
8/2/2014	0
8/3/2014	0
8/4/2014	0
8/5/2014	0
8/6/2014	0
8/7/2014	0

Date	Precip. (in)
8/8/2014	0
8/9/2014	0
8/10/2014	0
8/11/2014	0
8/12/2014	0
8/14/2014	0.21
8/15/2014	0
8/16/2014	0
8/17/2014	0
8/18/2014	0
8/19/2014	0
8/20/2014	0
8/21/2014	0
8/22/2014	0
8/23/2014	0
8/24/2014	0
8/25/2014	0
8/26/2014	0
8/27/2014	0
8/28/2014	0
8/29/2014	0
8/30/2014	0
8/31/2014	0
9/1/2014	0
9/2/2014	0
9/3/2014	0
9/4/2014	0
9/5/2014	0
9/6/2014	0
9/7/2014	0
9/8/2014	0
9/9/2014	0
9/10/2014	0
9/11/2014	0
9/12/2014	0
9/13/2014	0
9/14/2014	0
9/15/2014	0
9/16/2014	0
9/17/2014	0
9/18/2014	0
9/19/2014	0
9/20/2014	0
9/21/2014	0
9/22/2014	0

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
9/23/2014	0
9/24/2014	0.66
9/25/2014	0.27
9/26/2014	0.19
9/27/2014	0
9/28/2014	0
9/29/2014	0
9/30/2014	0
10/1/2014	0
10/2/2014	0
10/3/2014	0
10/4/2014	0
10/5/2014	0
10/6/2014	0
10/7/2014	0
10/8/2014	0
10/9/2014	0
10/10/2014	0
10/11/2014	0
10/12/2014	0
10/13/2014	0
10/14/2014	0.13
10/15/2014	0.44
10/16/2014	0
10/17/2014	0.14
10/18/2014	0.32
10/19/2014	0
10/20/2014	0.44
10/21/2014	0.1
10/22/2014	1.47
10/23/2014	0.33
10/24/2014	0.2
10/25/2014	0.37
10/26/2014	0.06
10/27/2014	0.02
10/28/2014	0.44
10/29/2014	0.02
10/30/2014	0.75
10/31/2014	0.7
11/1/2014	0
11/2/2014	0.12
11/3/2014	0.24
11/4/2014	0.07
11/5/2014	0.27
11/6/2014	0.22

Date	Precip. (in)
11/7/2014	0
11/8/2014	0
11/9/2014	0.29
11/10/2014	0
11/11/2014	0
11/12/2014	0
11/13/2014	0
11/14/2014	0
11/15/2014	0
11/16/2014	0
11/17/2014	0
11/18/2014	0
11/19/2014	0
11/20/2014	0.11
11/21/2014	0.67
11/22/2014	0.03
11/23/2014	0.43
11/24/2014	0.01
11/25/2014	0.33
11/26/2014	0.01
11/27/2014	0.04
11/28/2014	1.39
11/29/2014	0.06
11/30/2014	0
12/1/2014	0
12/2/2014	0
12/3/2014	0
12/4/2014	0.06
12/5/2014	0.11
12/6/2014	0.25
12/7/2014	0
12/8/2014	0.45
12/9/2014	0.43
12/10/2014	0.49
12/11/2014	0.33
12/12/2014	0
12/13/2014	0.01
12/14/2014	0
12/15/2014	0
12/16/2014	0
12/17/2014	0.16
12/18/2014	0.6
12/19/2014	0.14
12/20/2014	0.66
12/21/2014	0

Date	Precip. (in)
12/22/2014	0
12/23/2014	0.66
12/24/2014	0.12
12/25/2014	0
12/26/2014	0
12/27/2014	0.12
12/28/2014	0.06
12/29/2014	0
12/30/2014	0
12/31/2014	0
1/1/2015	0
1/2/2015	0.03
1/3/2015	0.01
1/4/2015	0.21
1/5/2015	0.07
1/6/2015	0.01
1/7/2015	0
1/8/2015	0
1/9/2015	0.01
1/10/2015	0.19
1/11/2015	0.06
1/12/2015	0
1/13/2015	0
1/14/2015	0
1/15/2015	0.43
1/16/2015	0
1/17/2015	0.84
1/18/2015	0.24
1/19/2015	0.03
1/20/2015	0
1/21/2015	0
1/22/2015	0.03
1/23/2015	0.08
1/24/2015	0.02
1/25/2015	0.01
1/26/2015	0
1/27/2015	0.02
1/28/2015	0
1/29/2015	0
1/30/2015	0
1/31/2015	0
2/1/2015	0.04
2/2/2015	0.3
2/3/2015	0.03
2/4/2015	0.32

Date	Precip. (in)
2/5/2015	0.9
2/6/2015	0.75
2/7/2015	0.82
2/8/2015	0.15
2/9/2015	0.15
2/10/2015	0.02
2/11/2015	0
2/12/2015	0.02
2/13/2015	0
2/14/2015	0.06
2/15/2015	0
2/16/2015	0
2/17/2015	0
2/18/2015	0
2/19/2015	0.03
2/20/2015	0.02
2/21/2015	0
2/22/2015	0
2/23/2015	0
2/24/2015	0
2/25/2015	0.07
2/26/2015	0.26
2/27/2015	0.69
2/28/2015	0
3/1/2015	0
3/2/2015	0
3/3/2015	0
3/4/2015	0
3/5/2015	0
3/6/2015	0
3/7/2015	0
3/8/2015	0
3/9/2015	0
3/10/2015	0.02
3/11/2015	0.08
3/12/2015	0
3/13/2015	0.09
3/14/2015	0.63
3/15/2015	2.45
3/16/2015	0
3/17/2015	0.04
3/18/2015	0
3/19/2015	0.01
3/20/2015	0.13
3/21/2015	0.14

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Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
3/22/2015	0.07
3/23/2015	0.21
3/24/2015	0.28
3/25/2015	0.13
3/26/2015	0
3/27/2015	0.01
3/28/2015	0
3/29/2015	0
3/30/2015	0.04
3/31/2015	0.36
4/1/2015	0.05
4/2/2015	0
4/3/2015	0.05
4/4/2015	0
4/5/2015	0
4/6/2015	0
4/7/2015	0.01
4/8/2015	0
4/9/2015	0
4/10/2015	0.54
4/11/2015	0
4/12/2015	0
4/13/2015	0.55
4/14/2015	0.06
4/15/2015	0
4/16/2015	0
4/17/2015	0
4/18/2015	0
4/19/2015	0
4/20/2015	0
4/21/2015	0.16
4/22/2015	0
4/23/2015	0.1
4/24/2015	0.16
4/25/2015	0.01
4/26/2015	0
4/27/2015	0
4/28/2015	0.12
4/29/2015	0
4/30/2015	0
5/1/2015	0
5/2/2015	0
5/3/2015	0
5/4/2015	0
5/5/2015	0.25

Date	Precip. (in)
5/6/2015	0
5/7/2015	0
5/8/2015	0
5/9/2015	0
5/10/2015	0
5/11/2015	0
5/12/2015	0.12
5/13/2015	0.13
5/14/2015	0
5/15/2015	0.01
5/16/2015	0
5/17/2015	0
5/18/2015	0
5/19/2015	0
5/20/2015	0
5/21/2015	0
5/22/2015	0
5/23/2015	0
5/24/2015	0
5/25/2015	0
5/26/2015	0
5/27/2015	0
5/28/2015	0
5/29/2015	0
5/30/2015	0
5/31/2015	0
6/1/2015	0.09
6/2/2015	0
6/3/2015	0
6/4/2015	0
6/5/2015	0
6/6/2015	0
6/7/2015	0
6/8/2015	0
6/9/2015	0
6/10/2015	0
6/11/2015	0
6/12/2015	0
6/13/2015	0
6/14/2015	0
6/15/2015	0
6/16/2015	0
6/17/2015	0
6/18/2015	0
6/19/2015	0.07

Date	Precip. (in)
6/20/2015	0
6/21/2015	0
6/22/2015	0
6/23/2015	0
6/24/2015	0
6/25/2015	0
6/26/2015	0
6/27/2015	0
6/28/2015	0
6/29/2015	0.01
6/30/2015	0
7/1/2015	0
7/2/2015	0
7/3/2015	0
7/4/2015	0
7/5/2015	0
7/6/2015	0
7/7/2015	0
7/8/2015	0
7/9/2015	0
7/10/2015	0
7/11/2015	0
7/12/2015	0
7/13/2015	0
7/14/2015	0
7/15/2015	0
7/16/2015	0
7/17/2015	0
7/18/2015	0
7/19/2015	0
7/20/2015	0
7/21/2015	0.13
7/22/2015	0
7/23/2015	0
7/24/2015	0.02
7/25/2015	0.01
7/26/2015	0.1
7/27/2015	0.01
7/28/2015	0
7/29/2015	0
7/30/2015	0
7/31/2015	0
8/1/2015	0
8/2/2015	0
8/3/2015	0

Date	Precip. (in)
8/4/2015	0
8/5/2015	0
8/6/2015	0
8/7/2015	0
8/8/2015	0
8/9/2015	0
8/10/2015	0
8/11/2015	0
8/12/2015	0.04
8/13/2015	0
8/14/2015	0.82
8/15/2015	0
8/16/2015	0
8/17/2015	0
8/18/2015	0
8/19/2015	0
8/20/2015	0
8/21/2015	0
8/22/2015	0
8/23/2015	0
8/24/2015	0
8/25/2015	0
8/26/2015	0
8/27/2015	0
8/28/2015	0.01
8/29/2015	0.22
8/30/2015	0.27
8/31/2015	0.05
9/1/2015	0.18
9/2/2015	0.01
9/3/2015	0
9/4/2015	0
9/5/2015	0.06
9/6/2015	0.19
9/7/2015	0
9/8/2015	0
9/9/2015	0
9/10/2015	0.01
9/11/2015	0
9/12/2015	0
9/13/2015	0.03
9/14/2015	0
9/15/2015	0
9/16/2015	0.05
9/17/2015	0.57

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
9/18/2015	0.01
9/19/2015	0
9/20/2015	0.09
9/21/2015	0
9/22/2015	0
9/23/2015	0
9/24/2015	0
9/25/2015	0.03
9/26/2015	0
9/27/2015	0
9/28/2015	0
9/29/2015	0
9/30/2015	0
10/1/2015	0.01
10/2/2015	0.01
10/3/2015	0
10/4/2015	0
10/5/2015	0
10/6/2015	0.01
10/7/2015	0.38
10/8/2015	0
10/9/2015	0.01
10/10/2015	0.77
10/11/2015	0
10/12/2015	0.36
10/13/2015	0.05
10/14/2015	0
10/15/2015	0
10/16/2015	0.01
10/17/2015	0.04
10/18/2015	0.16
10/19/2015	0
10/20/2015	0
10/21/2015	0
10/22/2015	0.01
10/23/2015	0
10/24/2015	0.01
10/25/2015	0.35
10/26/2015	0.09
10/27/2015	0.01
10/28/2015	0.1
10/29/2015	0.02
10/30/2015	0.56
10/31/2015	0.83
11/1/2015	0.47

Date	Precip. (in)
11/2/2015	0.07
11/3/2015	0.07
11/4/2015	0
11/5/2015	0.01
11/6/2015	0.01
11/7/2015	0.49
11/8/2015	0.38
11/9/2015	0.16
11/10/2015	0.07
11/11/2015	0.04
11/12/2015	0.24
11/13/2015	1.31
11/14/2015	1.66
11/15/2015	0.73
11/16/2015	0.09
11/17/2015	0.74
11/18/2015	0.05
11/19/2015	0.08
11/20/2015	0
11/21/2015	0
11/22/2015	0
11/23/2015	0.12
11/24/2015	0.21
11/25/2015	0
11/26/2015	0
11/27/2015	0
11/28/2015	0
11/29/2015	0
11/30/2015	0.01
12/1/2015	0.39
12/2/2015	0.07
12/3/2015	0.51
12/4/2015	0.12
12/5/2015	0.81
12/6/2015	0.55
12/7/2015	1.07
12/8/2015	1.51
12/9/2015	0.55
12/10/2015	0.63
12/11/2015	0.01
12/12/2015	0.56
12/13/2015	0.11
12/14/2015	0
12/15/2015	0.02
12/16/2015	0.13

Date	Precip. (in)
12/17/2015	0.82
12/18/2015	0.54
12/19/2015	0.01
12/20/2015	0.19
12/21/2015	0.83
12/22/2015	0.12
12/23/2015	0.09
12/24/2015	0.11
12/25/2015	0.05
12/26/2015	0
12/27/2015	0.32
12/28/2015	0.03
12/29/2015	0
12/30/2015	0
12/31/2015	0
1/1/2016	0
1/2/2016	0
1/3/2016	0.01
1/4/2016	0.07
1/5/2016	0.11
1/6/2016	0
1/7/2016	0
1/8/2016	0
1/9/2016	0
1/10/2016	0
1/11/2016	0.07
1/12/2016	0.52
1/13/2016	0.57
1/14/2016	0
1/15/2016	0.04
1/16/2016	0.41
1/17/2016	0.32
1/18/2016	0.05
1/19/2016	0.46
1/20/2016	0.2
1/21/2016	1.27
1/22/2016	0.27
1/23/2016	0.53
1/24/2016	0
1/25/2016	0
1/26/2016	0.27
1/27/2016	0.81
1/28/2016	0.51
1/29/2016	0.18
1/30/2016	0.02

Date	Precip. (in)
1/31/2016	0
2/1/2016	0.25
2/2/2016	0.02
2/3/2016	0.48
2/4/2016	0.05
2/5/2016	0.15
2/6/2016	0
2/7/2016	0
2/8/2016	0
2/9/2016	0
2/10/2016	0.16
2/11/2016	0.38
2/12/2016	0.85
2/15/2016	0.12
2/16/2016	0.01
2/17/2016	0.46
2/18/2016	0.12
2/19/2016	0.49
2/20/2016	0
2/21/2016	0.07
2/22/2016	0.01
2/23/2016	0
2/24/2016	0.02
2/25/2016	0
2/26/2016	0.15
2/27/2016	0.08
2/28/2016	0.69
2/29/2016	0.11
3/1/2016	0.71
3/2/2016	0.27
3/3/2016	0.03
3/4/2016	0.21
3/5/2016	0.2
3/6/2016	0.39
3/7/2016	0.26
3/8/2016	0.05
3/9/2016	0.95
3/10/2016	0.32
3/11/2016	0.36
3/12/2016	0.02
3/13/2016	0.52
3/14/2016	0.06
3/15/2016	0
3/16/2016	0
3/17/2016	0

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
3/18/2016	0
3/19/2016	0
3/20/2016	0.08
3/21/2016	0.28
3/22/2016	0.01
3/23/2016	0.13
3/24/2016	0
3/25/2016	0
3/26/2016	0.09
3/27/2016	0.43
3/28/2016	0
3/29/2016	0
3/30/2016	0
3/31/2016	0
4/1/2016	0
4/2/2016	0
4/3/2016	0.18
4/4/2016	0.11
4/5/2016	0
4/6/2016	0
4/7/2016	0
4/8/2016	0
4/9/2016	0
4/10/2016	0
4/11/2016	0
4/12/2016	0.44
4/13/2016	0.03
4/14/2016	0.17
4/15/2016	0
4/16/2016	0
4/17/2016	0
4/18/2016	0
4/19/2016	0
4/20/2016	0
4/21/2016	0
4/22/2016	0.02
4/23/2016	0.02
4/24/2016	0.35
4/25/2016	0.02
4/26/2016	0
4/27/2016	0
4/28/2016	0
4/29/2016	0.04
4/30/2016	0
5/1/2016	0

Date	Precip. (in)
5/2/2016	0
5/3/2016	0
5/4/2016	0
5/5/2016	0
5/7/2016	0
5/8/2016	0.02
5/9/2016	0
5/10/2016	0
5/11/2016	0
5/12/2016	0
5/13/2016	0
5/14/2016	0
5/15/2016	0
5/16/2016	0
5/17/2016	0
5/18/2016	0
5/19/2016	0.22
5/20/2016	0
5/21/2016	0.04
5/22/2016	0
5/23/2016	0
5/24/2016	0
5/25/2016	0
5/26/2016	0
5/27/2016	0.02
5/28/2016	0.03
5/29/2016	0
5/30/2016	0
5/31/2016	0
6/1/2016	0
6/2/2016	0
6/3/2016	0
6/4/2016	0
6/5/2016	0
6/6/2016	0
6/7/2016	0
6/8/2016	0
6/9/2016	0.07
6/10/2016	0
6/11/2016	0.1
6/12/2016	0
6/13/2016	0
6/14/2016	0.05
6/15/2016	0
6/16/2016	0

Date	Precip. (in)
6/17/2016	0.34
6/18/2016	0.04
6/19/2016	0
6/20/2016	0.56
6/21/2016	0.07
6/22/2016	0
6/23/2016	0.36
6/24/2016	0.13
6/25/2016	0
6/26/2016	0
6/27/2016	0
6/28/2016	0
6/29/2016	0
6/30/2016	0
7/1/2016	0
7/2/2016	0
7/3/2016	0
7/4/2016	0
7/5/2016	0
7/6/2016	0
7/7/2016	0.07
7/8/2016	0.18
7/9/2016	0.02
7/10/2016	0
7/12/2016	0
7/13/2016	0
7/14/2016	0
7/15/2016	0
7/16/2016	0
7/17/2016	0
7/18/2016	0
7/19/2016	0
7/20/2016	0
7/21/2016	0
7/22/2016	0.21
7/23/2016	0
7/24/2016	0
7/25/2016	0
7/26/2016	0
7/27/2016	0
7/28/2016	0
7/29/2016	0
7/30/2016	0
7/31/2016	0
8/1/2016	0

Date	Precip. (in)
8/2/2016	0
8/3/2016	0
8/4/2016	0
8/5/2016	0
8/6/2016	0
8/7/2016	0.03
8/8/2016	0
8/9/2016	0
8/10/2016	0
8/11/2016	0
8/12/2016	0
8/13/2016	0
8/14/2016	0
8/15/2016	0
8/16/2016	0
8/17/2016	0
8/18/2016	0
8/19/2016	0
8/20/2016	0
8/21/2016	0
8/22/2016	0
8/23/2016	0
8/24/2016	0
8/25/2016	0
8/26/2016	0
8/27/2016	0
8/28/2016	0
8/29/2016	0
8/30/2016	0
8/31/2016	0
9/1/2016	0
9/2/2016	0
9/3/2016	0
9/4/2016	0
9/5/2016	0
9/6/2016	0
9/7/2016	0.02
9/8/2016	0
9/9/2016	0
9/10/2016	0
9/11/2016	0
9/12/2016	0
9/13/2016	0
9/14/2016	0
9/15/2016	0

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
9/16/2016	0
9/17/2016	0.09
9/18/2016	0
9/19/2016	0.01
9/20/2016	0
9/21/2016	0
9/22/2016	0
9/23/2016	0
9/24/2016	0
9/25/2016	0
9/26/2016	0
9/27/2016	0
9/28/2016	0
9/29/2016	0
9/30/2016	0
10/1/2016	0.1
10/2/2016	0
10/3/2016	0.01
10/4/2016	0.11
10/5/2016	0.03
10/6/2016	0.34
10/7/2016	0.08
10/8/2016	0.65
10/9/2016	0.21
10/10/2016	0
10/11/2016	0
10/12/2016	0.01
10/13/2016	1.74
10/14/2016	1.49
10/15/2016	0.68
10/16/2016	0.52
10/17/2016	0.04
10/18/2016	0.12
10/19/2016	0.18
10/20/2016	1.17
10/21/2016	0.01
10/22/2016	0.04
10/23/2016	0.11
10/24/2016	0.13
10/25/2016	0.02
10/26/2016	1.46
10/27/2016	0.07
10/28/2016	0.01
10/29/2016	0.17
10/30/2016	0.23

Date	Precip. (in)
10/31/2016	0.75
11/1/2016	0.26
11/2/2016	0.48
11/3/2016	0
11/4/2016	0
11/5/2016	0.94
11/6/2016	0.21
11/7/2016	0.05
11/8/2016	0
11/9/2016	0.19
11/10/2016	0
11/11/2016	0
11/12/2016	0.09
11/13/2016	0.25
11/14/2016	0.24
11/15/2016	1.02
11/16/2016	0
11/17/2016	0
11/18/2016	0
11/19/2016	0.1
11/20/2016	0.1
11/21/2016	0.03
11/22/2016	0.52
11/23/2016	0.26
11/24/2016	1.16
11/25/2016	0.05
11/26/2016	0.52
11/27/2016	0.42
11/28/2016	0
11/29/2016	0.06
11/30/2016	0.19
12/1/2016	0
12/2/2016	0.2
12/3/2016	0.06
12/4/2016	0.17
12/5/2016	0.23
12/6/2016	0
12/7/2016	0
12/8/2016	0.04
12/9/2016	0.29
12/10/2016	0.21
12/11/2016	0.06
12/12/2016	0.02
12/13/2016	0
12/14/2016	0

Date	Precip. (in)
12/15/2016	0
12/16/2016	0
12/17/2016	0
12/18/2016	0
12/19/2016	0.55
12/20/2016	0.01
12/21/2016	0
12/22/2016	0.36
12/23/2016	0.61
12/24/2016	0
12/25/2016	0
12/26/2016	0.39
12/27/2016	0
12/28/2016	0
12/29/2016	0.13
12/30/2016	0.06
12/31/2016	0
1/1/2017	0.16
1/2/2017	0
1/3/2017	0
1/4/2017	0
1/5/2017	0
1/6/2017	0
1/7/2017	0
1/8/2017	0.56
1/9/2017	0.06
1/10/2017	0.1
1/11/2017	0
1/12/2017	0
1/13/2017	0
1/14/2017	0
1/15/2017	0
1/16/2017	0
1/17/2017	1.52
1/18/2017	1.21
1/19/2017	0.13
1/20/2017	0
1/21/2017	0.04
1/22/2017	0.12
1/23/2017	0
1/24/2017	0
1/25/2017	0
1/26/2017	0
1/27/2017	0
1/28/2017	0

Date	Precip. (in)
1/29/2017	0
1/30/2017	0
1/31/2017	0.01
2/1/2017	0
2/2/2017	0
2/3/2017	0.66
2/4/2017	0.71
2/5/2017	0.68
2/6/2017	0.39
2/7/2017	0
2/8/2017	0.76
2/9/2017	1.55
2/10/2017	0.06
2/11/2017	0.01
2/12/2017	0
2/13/2017	0
2/14/2017	0.23
2/15/2017	1.65
2/16/2017	0.46
2/17/2017	0
2/18/2017	0.13
2/19/2017	0.12
2/20/2017	0.2
2/21/2017	0.22
2/22/2017	0.01
2/23/2017	0.03
2/24/2017	0
2/25/2017	0
2/26/2017	0.26
2/27/2017	0.46
2/28/2017	0
3/1/2017	0
3/2/2017	0.07
3/3/2017	0.59
3/4/2017	0.03
3/5/2017	0.11
3/6/2017	0
3/7/2017	0.46
3/8/2017	0.03
3/9/2017	0.53
3/10/2017	0.02
3/11/2017	0.28
3/12/2017	0.02
3/13/2017	0.51
3/14/2017	0.36

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)
3/15/2017	0.71
3/16/2017	0
3/17/2017	0.77
3/18/2017	0.47
3/19/2017	0
3/20/2017	0
3/21/2017	0.17
3/22/2017	0
3/23/2017	0.25
3/24/2017	0.45
3/25/2017	0.01
3/26/2017	0.31
3/27/2017	0.08
3/28/2017	0.08
3/29/2017	0.41
3/30/2017	0.01
3/31/2017	0
4/1/2017	0.06
4/2/2017	0.05
4/3/2017	0
4/4/2017	0.09
4/5/2017	0.51
4/6/2017	0.27
4/7/2017	0.37
4/8/2017	0.06
4/9/2017	0.01
4/10/2017	0.35
4/11/2017	0.01
4/12/2017	0.87
4/13/2017	0.13
4/14/2017	0.02
4/15/2017	0
4/16/2017	0
4/17/2017	0.06
4/18/2017	0.22
4/19/2017	0.38
4/20/2017	0
4/21/2017	0
4/22/2017	0.13
4/23/2017	0.21
4/24/2017	0.02
4/25/2017	0.01
4/26/2017	0.04
4/27/2017	0.02
4/28/2017	0.06

Date	Precip. (in)
4/29/2017	0.06
4/30/2017	0.05
5/1/2017	0.07
5/2/2017	0.13
5/3/2017	0.19
5/4/2017	0.36
5/5/2017	0.19
5/6/2017	0.43
5/7/2017	0
5/8/2017	0
5/9/2017	0
5/10/2017	0
5/11/2017	0.38
5/12/2017	0.19
5/13/2017	0.08
5/14/2017	0.01
5/15/2017	0.28
5/16/2017	0.14
5/17/2017	0
5/18/2017	0
5/19/2017	0
5/20/2017	0
5/21/2017	0
5/22/2017	0
5/23/2017	0
5/24/2017	0
5/25/2017	0
5/26/2017	0
5/27/2017	0
5/28/2017	0
5/29/2017	0
5/30/2017	0
5/31/2017	0.05
6/1/2017	0
6/2/2017	0
6/3/2017	0
6/4/2017	0
6/5/2017	0
6/6/2017	0
6/7/2017	0.02
6/8/2017	0.27
6/9/2017	0
6/10/2017	0
6/11/2017	0
6/12/2017	0

Date	Precip. (in)
6/13/2017	0
6/14/2017	0
6/15/2017	0.9
6/16/2017	0
6/17/2017	0.01
6/18/2017	0
6/19/2017	0
6/20/2017	0
6/21/2017	0
6/22/2017	0
6/23/2017	0
6/24/2017	0
6/25/2017	0
6/26/2017	0
6/27/2017	0
6/28/2017	0
6/29/2017	0
6/30/2017	0
7/1/2017	0
7/2/2017	0
7/3/2017	0
7/4/2017	0
7/5/2017	0
7/6/2017	0
7/7/2017	0
7/8/2017	0
7/9/2017	0
7/10/2017	0
7/11/2017	0
7/12/2017	0
7/13/2017	0
7/14/2017	0
7/15/2017	0
7/16/2017	0
7/17/2017	0
7/18/2017	0
7/19/2017	0
7/20/2017	0
7/21/2017	0
7/22/2017	0
7/23/2017	0
7/24/2017	0
7/25/2017	0
7/26/2017	0
7/27/2017	0

Date	Precip. (in)
7/28/2017	0
7/29/2017	0
7/30/2017	0
7/31/2017	0
8/1/2017	0
8/2/2017	0
8/3/2017	0
8/4/2017	0
8/5/2017	0
8/6/2017	0
8/7/2017	0
8/8/2017	0
8/9/2017	0
8/10/2017	0
8/11/2017	0
8/12/2017	0.02
8/13/2017	0
8/14/2017	0
8/15/2017	0
8/16/2017	0
8/17/2017	0
8/18/2017	0
8/19/2017	0
8/20/2017	0
8/21/2017	0
8/22/2017	0
8/23/2017	0
8/24/2017	0
8/25/2017	0
8/26/2017	0
8/27/2017	0
8/28/2017	0
8/29/2017	0
8/30/2017	0
8/31/2017	0
9/1/2017	0
9/2/2017	0
9/3/2017	0
9/4/2017	0
9/5/2017	0
9/6/2017	0
9/7/2017	0
9/8/2017	0
9/9/2017	0
9/10/2017	0

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov

Precipitation Data for Seattle Boeing Field (USW00024234)

Date	Precip. (in)	Date	Precip. (in)	Date	Precip. (in)	Date	Precip. (in)
9/11/2017	0						
9/12/2017	0						
9/13/2017	0						
9/14/2017	0						
9/15/2017	0						
9/16/2017	0						
9/17/2017	0.06						
9/18/2017	0.17						
9/19/2017	0.27						
9/20/2017	0.04						
9/21/2017	0						
9/22/2017	0						
9/23/2017	0						
9/24/2017	0						
9/25/2017	0.02						
9/26/2017	0						

Data from NOAA's National Centers for Environmental Information (NCEI) https://www.ncdc.noaa.gov