

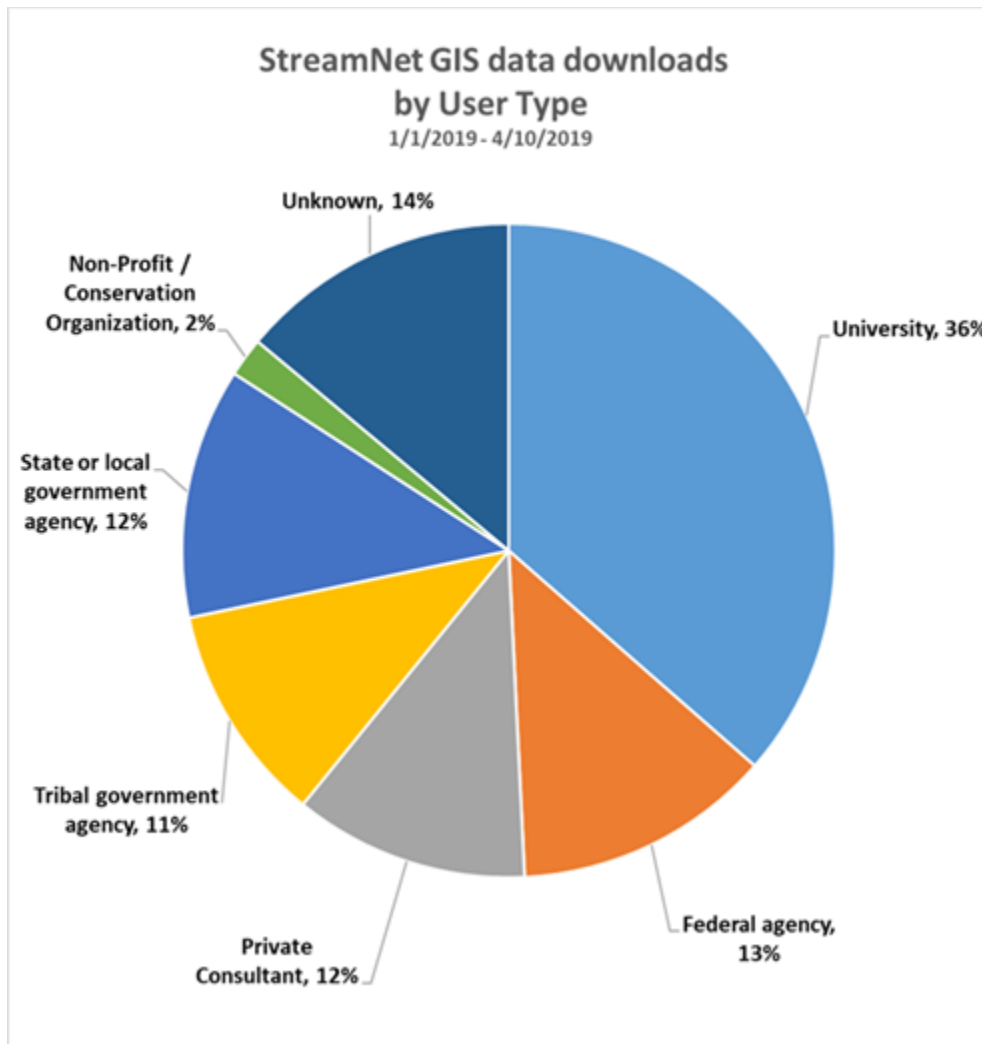
ISRP StreamNet User Information (The annual reports produced by the project - available on cbfish - also contain StreamNet website usage information);

StreamNet Website Use Statistics	2018	2017	2016	2015	2014	2013
Total Visits	13,371	22,630	29,708	32,590	39,171	44,798
Unique Visitors	9,197	14,228	18,399	20,014	31,424	36,683
Pageviews	34,551	54,677	83,182	63,880	75,112	89,681
Ave. Page Views	3	2	3	3	2	2
Ave. Time on Site (min)	2	1	3	3	1	1
Data API Usage (hits)	2,399,444	508,123	412,504	144,698	51,358	n/a

The number of unique visitor daily visits for StreamNet Mapping applications from 2015 – 2018;

Application*	Unique Visits	Daily average unique visits
<i>Reporting period: 1/1/2018 - 12/31/2018</i>		
Columbia Basin Fish Facilities Map Application	635	1.7
PNW Protected Areas & Streams Mapper	509	1.6
StreamNet Mapper	4,585	12.6
<i>Reporting period: 1/1/2017 to 12/31/2017</i>		
Columbia Basin Fish Facilities	655	1.8
PNW Protected Areas & Streams	466	1.28
StreamNet Mapper	4,509	12.39
<i>Reporting period: 1/1/2016 to 12/31/2016</i>		
Columbia Basin Fish Facilities	628	1.72
PNW Protected Areas & Streams	404	1.11
StreamNet Mapper	4,220	11.56
<i>Reporting period: 3/1/2015 to 12/31/2015</i>		
Columbia Basin Fish Facilities	657	1.8
PNW Protected Areas & Streams	351	0.96
StreamNet Mapper	2,850	7.83
*A unique daily visit is sometimes referred to as a 'session' in web analytics terms		
** All StreamNet web mapping applications that are currently in use were published on the ArcGIS platform as of 3/1/2015		
web analytics for prior applications are different in nature and are not comparable.		

A summary of StreamNet GIS data download activity for the recent past is shown below, primarily to illustrate the summary of use of this type of data by organization type. In total, there were 258 GIS data downloads for the period from 1/1/2019 to 4/10/2019, for an average of 2.6/day;

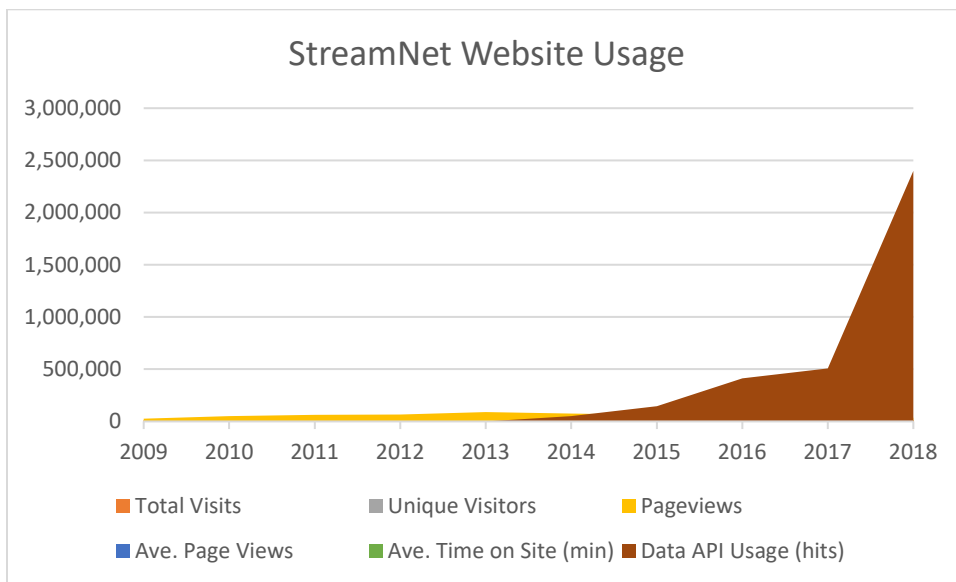


Mapping data includes fish distribution information, which is used by federal agencies when they delineate critical habitat for ESA listed species. It also includes the BPA facility mapper, which is BPA's system of record for program-funded facilities including large dams, hatcheries, and PIT tag arrays (<https://www.streamnet.org/data/interactive-maps-and-gis-data/>).

We can also determine the number of successful database downloads that occur. These are counted when a user successfully downloads a data set from the Data Store, the full CAX spreadsheet, or the Microsoft Access version of the main StreamNet database. In 2018 there were 1,325 downloads from the Data Store (3.6/day); in the first 3 months of 2019 there were 645 (3.8/day). Total downloads of the CAX full spreadsheet plus the main StreamNet database in Access format was 79 downloads in 2018 (0.2/day), and 48 in the first 3 months of 2019 (0.5/day); roughly 2/3 of these were the Access version of the StreamNet database, and 1/3 the CAX spreadsheet.

Top users of the StreamNet website (no. of visits)	2018	2017	2016	2015	2014	2013
Internet service providers (Comcast, Verizon, etc.)	6,170	9,621	10,906	9,241	17,862	17,711
State of Oregon	203	380	948	776	640	600
U.S.D.A. Forest Service	172	218	308	347	241	393
National Oceanic and Atmospheric Administration	115	251	540	574	349	309
Bonneville Power Administration	91	173	536	448	213	220
U.S. Fish and Wildlife Service, IRM/BFO hq	86	208	388	256	201	109
Portland State University	81	40	103	146	70	73
OregonState University	77	146	175	187	158	186
Headquarters USAISC (US Army)	72	120	198	394	360	462
University of Washington	65	17	141	167	114	91
Washington State Department of Fish and Wildlife	64	111	220	194	165	89
State of Idaho	52	134	270	158	118	120
USDA Office of Operations	50	78	129	126	122	148
U.S. DOI Bueau of Land Management	38	83	125	176	122	139
Nez Perce Tribe	36	37	80	99	0	0

One thing that is clear is that the use of APIs, where computers routinely share information electronically, is rapidly dwarfing all other use categories;



Finally, we track “help desk” requests where individual users contact staff with specific requests for assistance. In 2018 we assisted 34 users directly through the help desk, and in the first 3 months of 2019 we have assisted 8 users to date. [\(Add state help desk summaries here\)](#)