

STATUS OF MINOR PLANET OBSERVATIONS (CRITICAL LIST)

List of planets not observed since 2015
or observed in less than four oppositions

№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations
1915	>5	2004	131318	5	2015	196625	5	2013
3362	>5	2004	131695	5	2007	198856	>5	2014
4034	>5	2015	134568	4	2006	199145	>5	2012
4688	4	2011	134860	>5	2012	202411	>5	2015
5335	2	1992	135024	>5	2015	207945	>5	2011
5590	>5	1996	135182	>5	2008	207970	>5	2013
6489	>5	2015	135571	4	2006	208866	>5	2015
7066	>5	2004	136120	5	2014	209215	>5	2009
7236	4	2014	138258	>5	2015	211914	4	2009
10370	>5	2010	138727	5	2009	213053	5	2015
15504	4	2000	141424	>5	2007	215167	>5	2011
15789	>5	2009	141432	>5	2012	217390	>5	2011
15809	>5	2001	141526	>5	2013	217837	>5	2014
16636	>4	2014	141614	>5	2010	218017	>5	2014
20108	>5	2014	143487	>5	2012	218622	5	2013
20425	4	2005	143649	>5	2015	219071	>5	2013
20461	3	2000	144900	>5	2015	221455	5	2012
24978	>5	2007	144908	3	2007	221980	5	2013
26379	>5	2008	148112	>5	2014	222008	4	2010
26817	3	2015	148209	>5	2015	225088	>5	2015
32929	>5	2015	148975	>5	2012	225112	>5	2015
35670	>4	2002	149348	>5	2008	227319	>5	2015
37638	>5	2015	149560	4	2006	230420	3	2010
38083	>5	2013	154019	4	2005	231937	>5	2014
45802	4	2002	154275	>5	2014	235145	>5	2015
49673	>5	2013	154276	>5	2014	235700	5	2013
52689	>5	2015	154783	4	2005	240403	>5	2015
52747	>5	2004	155336	>5	2015	241097	5	2010
52975	>5	2008	155338	4	2007	247360	>5	2014
53311	>5	2014	159518	>5	2013	249118	>5	2015
53429	3	2002	159555	>5	2015	249615	5	2014
54509	>5	2005	159677	>5	2012	251722	>5	2013
54520	>4	2002	160147	>5	2008	252849	>5	2015
54690	>5	2012	160148	4	2007	253036	>5	2014
58534	>5	2015	162015	>5	2003	257401	>5	2015
60621	>5	2015	162058	5	2015	257545	>5	2014
63252	>5	2015	162214	3	2007	258246	>5	2015
65407	>3	2004	162416	2	2005	258864	>5	2014
65489	>5	2015	162421	>5	2014	260941	>5	2015
66063	>5	2010	162470	4	2013	263976	5	2013
66452	>5	2007	162695	3	2004	267131	5	2015
66652	>5	2015	162740	3	2005	269947	>5	2015
69988	>5	2008	162903	5	2010	272491	>5	2013
73480	>5	2014	162922	4	2007	274931	>5	2015
76803	>5	2008	162926	3	2007	275672	>5	2015
78799	>5	2008	163015	4	2007	275765	>5	2013
82157	>5	2008	163026	4	2014	275809	>5	2014
82158	>5	2015	163067	2	2005	276493	5	2015
83982	>5	2014	163295	3	2009	276550	>5	2014
85585	4	2003	163667	3	2007	277210	>5	2015
85627	>5	2007	163697	>5	2015	277357	>5	2015
85640	>5	2008	164184	>5	2015	277475	>5	2014
86177	>5	2012	164215	4	2010	278361	>5	2015
87269	>5	2006	164294	4	2014	278381	>5	2012
87555	>5	2013	164341	3	2007	279744	>5	2014
88267	5	2005	164342	3	2007	280072	>5	2015
88268	4	2004	168044	>5	2009	280491	5	2011
88269	5	2006	168318	4	2008	282525	>5	2015
90147	>5	2014	168791	>5	2014	282882	>5	2015
91133	4	2001	172678	2	2007	283830	>5	2015
95625	4	2006	175706	>5	2014	284114	5	2014
101869	>5	2008	179806	3	2008	284422	3	2015
118378	>5	2015	182294	>5	2008	284449	>5	2015
118379	4	2005	182397	5	2007	285875	>5	2015
118702	5	2008	182933	5	2008	286079	>5	2015
119066	4	2005	182934	>5	2011	287117	>5	2015
119067	>5	2007	183595	5	2008	287770	>5	2015
119068	>4	2005	183963	>5	2013	287841	>5	2015
119069	>5	2008	183964	>5	2008	289227	>5	2012
119070	4	2005	184266	4	2011	289840	>5	2015
119473	>4	2014	185548	>5	2015	292429	>5	2014
119878	>5	2015	187026	>5	2011	293196	>5	2014
119951	>5	2015	188452	5	2012	293726	>5	2015
119976	>5	2015	191094	4	2008	293755	>5	2015
130391	5	2007	196068	>5	2011	293888	>5	2015

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№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations
293990	>5	2015	336756	>5	2015	365424	4	2013
299536	>5	2014	336854	>5	2015	365502	>5	2015
300366	>5	2015	337053	>5	2013	365756	>5	2013
300434	>5	2015	337062	5	2015	365951	>5	2015
301844	>5	2011	337075	4	2013	366412	4	2013
302010	4	2014	337119	5	2013	366833	5	2014
302406	>5	2015	337345	5	2012	366838	4	2013
302523	5	2015	337558	3	2013	366949	4	2013
302830	5	2014	341208	5	2013	367248	>5	2013
303449	5	2014	341275	>5	2014	367528	4	2013
304088	4	2011	341843	3	2010	367569	5	2015
305038	>5	2015	342192	>5	2014	367638	5	2014
305174	>5	2015	342866	5	2014	367789	3	2013
305240	>5	2014	343164	>5	2012	367943	2	2013
306173	>5	2014	343433	>5	2014	368178	5	2013
306257	>5	2015	343728	>5	2015	368184	5	2014
306792	5	2009	344076	4	2012	368203	5	2013
306803	>5	2013	344500	>5	2015	368225	4	2013
306867	5	2013	344883	5	2015	368723	5	2015
306880	>5	2015	344893	5	2014	368732	5	2013
307005	4	2011	344942	>5	2014	368935	5	2013
307251	>5	2015	345174	>5	2015	369057	>5	2015
307463	>5	2015	346343	5	2015	369368	5	2015
308379	>5	2015	346405	>5	2015	370009	4	2013
308460	5	2010	346889	5	2015	370037	4	2013
308607	4	2009	347590	>5	2015	370256	4	2013
308634	>5	2015	348205	>5	2015	370328	>5	2015
308933	>5	2015	348253	>5	2015	371523	5	2015
309139	>5	2011	348666	>5	2014	371973	5	2015
309214	4	2010	349285	>5	2015	371989	4	2013
309349	>5	2015	349490	5	2015	372496	4	2013
309662	5	2013	350513	4	2013	373135	>5	2015
309737	>5	2015	350751	5	2013	373579	>5	2014
309741	5	2013	351091	>5	2015	373642	>5	2015
310576	>5	2015	351095	5	2015	373773	4	2013
310935	5	2011	353938	4	2013	374234	>5	2015
311555	>5	2014	353976	>5	2015	374288	5	2015
312070	>5	2012	355273	>5	2015	374734	4	2013
312503	>5	2015	355466	>5	2015	374855	>5	2013
312942	>5	2015	355523	>5	2015	375657	4	2013
313548	4	2012	355897	4	2013	375825	>5	2015
314212	4	2012	356418	>5	2015	376460	>5	2015
314642	5	2015	356521	>5	2015	376739	5	2015
316570	>5	2015	356546	>5	2015	376778	5	2014
318823	>5	2015	357005	3	2013	376848	4	2013
318942	5	2015	357058	>5	2015	376987	>5	2015
320019	4	2012	357622	>5	2014	376999	4	2013
320378	5	2014	358173	>5	2015	377062	>5	2013
321720	>5	2015	358471	3	2013	377097	5	2014
323137	>5	2014	358561	5	2015	377608	5	2014
325114	5	2015	359170	5	2015	377609	>5	2013
326332	>5	2015	359358	>5	2015	377732	3	2014
327140	4	2012	359598	>5	2015	377988	5	2015
327171	>5	2013	360191	4	2013	378043	4	2013
327258	4	2012	360232	5	2015	378152	5	2013
328884	>5	2014	360502	4	2013	378842	4	2013
329343	>5	2012	360507	>5	2015	379177	5	2015
329437	>5	2014	361236	5	2015	379180	5	2013
329787	>5	2015	361418	>5	2015	379218	>5	2015
329915	>5	2014	361689	4	2013	379247	5	2013
329936	>5	2015	362310	4	2013	379256	>5	2013
329962	>5	2015	363071	>5	2013	379913	>5	2015
330233	>5	2014	363334	5	2014	380188	5	2013
330759	>5	2014	363344	4	2012	380205	4	2013
330836	>5	2012	363401	5	2013	380223	5	2015
330952	>5	2015	363455	5	2014	380237	>5	2013
333068	4	2011	363617	>5	2013	380455	>5	2014
333080	>5	2015	363915	>5	2015	380524	4	2013
333284	5	2013	364171	>5	2015	380636	5	2014
333358	4	2012	364231	>5	2014	380717	4	2014
333481	5	2014	364315	5	2014	380720	4	2013
333486	>5	2013	365014	5	2014	380745	>5	2014
335039	>5	2015	365071	>5	2014	380751	4	2013
335159	>5	2015	365086	4	2013	380782	>5	2015
335758	5	2014	365384	5	2015	381050	4	2014

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381389	>5	2015	397474	4	2014	412622	>5	2015
381766	5	2013	397498	5	2015	412977	>5	2015
381780	5	2013	397518	>5	2015	413021	3	2014
381946	5	2015	397528	5	2015	413091	4	2014
381989	4	2013	398131	5	2014	413123	3	2015
382083	>5	2015	398145	5	2015	413485	4	2014
382189	>5	2015	398468	5	2015	413577	>5	2015
382517	5	2015	399308	>5	2015	413666	>5	2014
382603	4	2014	399309	>5	2014	413830	5	2015
382625	4	2014	399393	4	2014	413837	4	2014
383596	>5	2015	399433	5	2015	413861	4	2015
383923	5	2014	399511	>5	2014	413899	>5	2015
385185	5	2013	399569	5	2015	414286	4	2015
385191	>5	2014	399632	4	2014	414287	2	2015
385199	>5	2015	399665	>5	2015	414484	5	2014
385252	>5	2015	399750	4	2014	414586	4	2014
385266	>5	2013	399764	5	2014	414746	3	2014
385362	4	2013	399814	4	2014	414800	4	2014
385363	5	2014	400028	>5	2014	414806	5	2015
385385	5	2015	400039	4	2014	415135	4	2015
385402	5	2014	400051	5	2014	415456	5	2015
385423	4	2014	400058	5	2014	415503	4	2014
385437	>5	2015	400098	4	2014	415569	5	2014
385445	5	2013	400323	>5	2015	415710	>5	2014
385447	>5	2013	400862	4	2014	415788	4	2015
385528	>5	2013	401056	>5	2015	415814	>5	2015
385533	>5	2013	401856	4	2014	415986	4	2015
385571	4	2013	401885	5	2015	416032	3	2015
385607	5	2013	401998	4	2014	416071	>5	2015
385939	>5	2015	402052	5	2014	416113	5	2015
386454	4	2014	402134	>5	2015	416177	4	2014
386723	>5	2015	402175	5	2014	416195	5	2014
387529	5	2014	402567	4	2014	416320	4	2014
387648	5	2014	402691	4	2014	416675	3	2015
387668	5	2014	402980	5	2015	416694	3	2014
387746	4	2014	403129	4	2014	416804	2	2014
388185	5	2014	403775	5	2014	417210	4	2015
388481	5	2015	403779	4	2014	417474	5	2014
388499	5	2015	404787	5	2014	417483	5	2015
388859	>5	2015	404963	>5	2015	417523	5	2014
389745	5	2015	405032	4	2014	417634	3	2015
389839	5	2015	405237	4	2014	417874	4	2015
389972	>5	2015	405398	4	2014	418111	5	2015
390536	>5	2014	405563	5	2014	418233	4	2015
390654	5	2015	405565	4	2014	418797	>5	2015
390681	>5	2015	405762	>5	2015	419624	5	2015
390955	>5	2015	405793	4	2014	419634	5	2014
391151	5	2014	406016	4	2014	419644	4	2014
391179	5	2015	406049	5	2014	419774	5	2014
391449	4	2014	406213	4	2015	419922	3	2015
391605	>5	2014	406512	5	2014	420062	4	2015
391638	5	2015	406887	5	2014	420210	3	2017
391862	4	2014	407136	>5	2015	420822	5	2014
392466	5	2014	407184	5	2015	421599	5	2014
392544	>5	2015	407204	>5	2014	421627	5	2014
393205	>5	2015	407214	>5	2015	421792	>5	2015
393359	5	2014	407324	3	2014	422100	>5	2014
393390	>5	2015	407375	4	2014	422199	4	2014
393468	4	2014	407656	4	2014	422637	4	2015
393889	>5	2015	407679	5	2014	422638	>5	2015
394064	5	2015	408317	4	2014	422686	5	2015
394115	4	2014	408751	3	2014	423133	5	2015
394155	4	2014	408800	4	2015	423210	4	2015
394235	>5	2015	408832	>5	2014	423486	>5	2015
394400	>5	2015	408982	4	2014	423503	>5	2015
394409	>5	2015	409182	5	2015	423618	5	2015
394446	5	2015	410649	3	2014	423709	4	2015
394581	5	2015	410778	3	2019	424207	4	2015
394687	>5	2015	410930	>5	2015	424392	4	2015
394818	4	2014	411165	4	2014	424969	5	2015
394891	>5	2015	411216	5	2014	425049	>5	2015
395141	4	2014	411383	4	2014	425455	4	2015
395382	5	2015	411615	5	2014	425548	5	2015
395699	>5	2015	411619	4	2014	425859	5	2015
396730	5	2014	412149	4	2014	426079	>5	2015

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426196	5	2015	435581	4	2015	441062	4	2015
426412	4	2015	435730	4	2015	441087	5	2015
426818	4	2015	435763	4	2015	441089	5	2015
427023	4	2015	436035	3	2015	441091	4	2015
427446	4	2015	436061	5	2015	441103	4	2015
427581	4	2014	436094	4	2015	441124	>5	2015
427614	4	2014	436329	2	2015	441147	4	2015
427737	5	2015	436462	4	2015	441152	4	2015
427952	>5	2015	436494	4	2015	441162	>5	2015
428086	4	2015	436497	4	2015	441166	>5	2015
428209	3	2015	436528	5	2015	441167	5	2015
428282	4	2015	436557	4	2015	441193	4	2015
428560	4	2015	436568	4	2015	441203	5	2015
428681	3	2016	436578	5	2015	441217	4	2015
428682	>5	2015	436655	4	2015	441232	>5	2015
429073	4	2015	436761	3	2015	441246	>5	2015
429094	5	2015	436764	5	2015	441255	4	2015
429208	4	2015	436797	>5	2015	441289	5	2015
429389	2	2015	437313	4	2015	441297	4	2015
429562	5	2015	437752	5	2015	441304	3	2015
430436	>5	2015	437844	>5	2015	441392	>5	2015
430439	4	2015	437871	5	2014	441433	4	2015
430448	5	2015	437905	4	2015	441435	5	2015
430544	3	2015	437908	5	2015	441477	4	2015
430552	4	2015	437915	5	2014	441757	>5	2015
430721	5	2015	437965	>5	2015	441787	5	2015
430756	4	2015	437990	5	2015	441823	4	2015
431107	4	2015	438001	>5	2015	441831	>5	2015
431252	>5	2015	438050	4	2015	441855	4	2015
431369	5	2015	438073	4	2015	441909	4	2015
431648	4	2015	438105	4	2015	441957	4	2015
431657	4	2015	438116	4	2015	442037	3	2020
431698	4	2015	438205	5	2015	442071	5	2015
431718	4	2015	438406	5	2015	442093	4	2015
431760	3	2015	438506	5	2015	442105	5	2015
431776	5	2015	438540	>5	2015	442113	4	2015
431779	5	2015	438554	5	2015	442127	4	2015
431788	4	2015	438563	5	2015	442256	4	2015
431822	>5	2015	438567	5	2015	442257	5	2015
431950	5	2015	438568	4	2015	442260	4	2015
432589	4	2015	438594	5	2015	442263	4	2015
432604	4	2015	438671	4	2015	442280	4	2015
432730	>5	2015	438902	2	2014	442284	5	2015
432737	4	2015	438908	3	2019	442324	4	2015
433872	>5	2015	438990	5	2015	442362	>5	2015
433939	>5	2015	439090	5	2015	442375	5	2015
434007	4	2015	439679	>5	2015	442390	>5	2015
434053	4	2015	439840	5	2015	442605	5	2015
434154	3	2015	439858	>5	2015	443098	>5	2015
434194	5	2015	439859	4	2015	443235	>5	2015
434196	4	2015	439877	4	2015	443292	4	2015
434313	4	2015	439889	5	2015	443298	>5	2015
434322	5	2015	439896	>5	2015	443806	4	2015
434326	>5	2015	439919	5	2015	443837	5	2015
434500	4	2015	439964	4	2015	443883	4	2015
434633	5	2015	439975	5	2015	443981	4	2015
434651	5	2015	440020	5	2015	444004	5	2015
434740	>5	2015	440027	>5	2015	444019	5	2015
434751	4	2015	440036	>5	2015	444028	5	2015
434761	4	2015	440047	5	2015	444057	5	2015
434783	>5	2015	440074	4	2015	444157	5	2015
434820	4	2015	440111	5	2015	444199	4	2015
434828	4	2015	440145	4	2015	444213	>5	2015
435058	4	2015	440147	4	2015	444263	5	2015
435080	5	2015	440153	5	2015	444264	4	2015
435092	>5	2015	440207	4	2015	444298	5	2015
435112	5	2015	440491	5	2015	444327	5	2015
435126	>5	2015	440563	>5	2015	444348	4	2015
435253	4	2015	440575	5	2015	444365	5	2015
435465	5	2015	440649	5	2015	444504	4	2015
435501	5	2015	440680	5	2015	444509	4	2015
435548	4	2015	440700	4	2015	444523	>5	2015
435550	4	2015	440788	4	2015	444529	>5	2015
435554	4	2015	440816	>5	2015	444531	5	2015
435574	5	2015	440887	>5	2015	444554	5	2015

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444558	>5	2015	450109	4	2015	456863	3	2016
444564	5	2015	450143	5	2015	457111	5	2015
444614	>5	2015	450159	4	2015	457662	3	2016
444746	5	2015	450237	3	2015	458375	3	2016
444779	4	2015	450259	3	2015	458436	2	2016
444801	5	2015	450423	5	2015	458732	3	2020
444810	5	2015	450445	>5	2015	459119	3	2016
445282	5	2015	450649	5	2015	459683	3	2016
445360	5	2015	450751	4	2015	460219	5	2015
445361	4	2015	450778	>5	2015	462238	3	2016
445402	4	2015	450791	5	2015	465749	3	2016
445481	4	2015	450967	4	2015	466053	3	2016
445494	5	2015	450999	>5	2015	466507	3	2016
445536	4	2015	451124	3	2015	467963	3	2017
445574	5	2015	451145	4	2015	468004	3	2016
445576	4	2015	451220	5	2015	468422	5	2015
445626	5	2015	451297	3	2015	468452	3	2016
445643	>5	2015	451302	>5	2015	468462	3	2016
445672	4	2015	451303	4	2015	468681	3	2016
445770	>5	2015	451347	4	2015	468727	3	2016
445794	4	2015	451370	3	2019	468837	3	2016
445830	4	2015	451413	4	2015	469333	>5	2015
445868	5	2015	451420	5	2015	469361	>5	2015
445974	3	2015	451424	>5	2015	469362	>5	2015
446288	4	2015	451428	5	2015	469442	>5	2015
446355	>5	2015	451439	>5	2015	469505	>5	2015
446767	5	2015	451713	4	2015	469514	>5	2015
446789	>5	2015	451863	5	2015	469584	>5	2015
446850	4	2015	452203	4	2015	469610	>5	2015
446853	5	2015	452209	>5	2015	469615	>5	2015
446860	4	2015	452219	4	2015	470027	>5	2015
446949	5	2015	452302	4	2015	470083	>5	2015
446955	4	2015	452315	4	2015	470308	>5	2015
446963	4	2015	452334	3	2015	470585	3	2016
447033	>5	2015	452356	5	2015	470593	>5	2015
447183	4	2015	452397	3	2016	470678	3	2016
447239	5	2015	452443	4	2015	470864	3	2016
447245	4	2015	452453	4	2015	470909	3	2016
447247	5	2015	452474	4	2015	471136	>5	2015
447265	4	2015	452529	4	2015	471143	>5	2015
447484	4	2015	452622	4	2015	471155	>5	2015
447558	5	2015	452683	5	2015	471211	4	2015
447560	5	2015	452820	4	2015	471272	4	2015
447626	4	2015	452856	>5	2015	473350	4	2015
447633	4	2015	453009	4	2015	474474	3	2016
447644	>5	2015	453015	>5	2015	474532	3	2016
447655	5	2015	453026	4	2015	474674	3	2016
447686	5	2015	453065	>5	2015	475016	3	2016
447736	>5	2015	453100	3	2016	475665	3	2017
447740	5	2015	453276	4	2015	477051	3	2016
447749	4	2015	453292	5	2015	477248	3	2016
447793	4	2015	453309	3	2016	477327	3	2016
447801	4	2015	453363	4	2015	477490	3	2017
447977	3	2015	453444	>5	2015	477719	3	2016
448199	5	2015	453464	5	2015	480824	3	2016
448235	5	2015	453467	4	2015	480883	3	2017
448375	4	2015	453503	>5	2015	480934	3	2017
448427	>5	2015	453652	5	2015	480984	3	2017
448521	4	2015	453696	4	2015	481790	3	2016
448601	4	2015	453707	4	2015	481989	3	2017
448721	3	2015	453717	5	2015	482055	3	2017
448787	5	2015	453757	5	2015	482250	3	2017
448886	5	2015	453811	>5	2015	482391	3	2017
448972	4	2015	453880	4	2015	482488	3	2016
449086	4	2015	454308	5	2015	482505	2	2016
449107	4	2015	454309	5	2015	482718	3	2017
449505	5	2015	454311	>5	2015	483506	3	2017
449510	5	2015	454356	>5	2015	483509	3	2017
449586	5	2015	454524	4	2015	483531	3	2017
449592	4	2015	454690	5	2015	483856	3	2017
449623	5	2015	455037	>5	2015	483989	3	2017
449648	4	2015	455171	>5	2015	484757	3	2017
449995	5	2015	455209	4	2015	484850	3	2017
450032	>5	2015	455847	>5	2015	485051	3	2017
450094	5	2015	456051	2	2016	485823	3	2017

STATUS OF MINOR PLANET OBSERVATIONS (CRITICAL LIST)

List of planets not observed since 2015
or observed in less than four oppositions

№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations	№	Number of observed oppositions	Year of last observations
486958	3	2016	496230	3	2017	523662	3	2018
487577	3	2017	496273	4	2015	523663	3	2018
487583	3	2017	496326	3	2017	523665	3	2018
488468	5	2015	496611	5	2015	523666	3	2018
488486	3	2017	496621	5	2015	523667	3	2018
488515	3	2017	496630	5	2015	523668	3	2018
488526	5	2015	496816	3	2018	523669	3	2018
488640	3	2017	496981	3	2018	523685	3	2019
488746	4	2015	497096	3	2018	523694	3	2018
488763	4	2015	497113	3	2018	523707	3	2018
488772	5	2015	499307	3	2018	523737	3	2018
488785	5	2015	499490	3	2018	523781	3	2018
488803	3	2017	499672	3	2018	523786	3	2018
488930	4	2015	499998	3	2017	523788	2	2018
488947	4	2015	500080	3	2017	523795	3	2018
488986	4	2015	500136	3	2017	523803	3	2019
489002	4	2015	501567	3	2017	523805	3	2019
489231	4	2015	503277	3	2017	523806	3	2019
489284	4	2015	503293	3	2018	523809	3	2018
489292	5	2015	503911	3	2017	523812	3	2018
489296	>5	2015	504505	3	2017	523815	3	2019
489337	3	2017	504680	3	2017	523818	3	2018
489532	4	2015	504887	3	2018	523819	3	2018
489567	4	2015	505019	3	2017	523822	2	2018
489609	4	2015	505093	3	2018	523824	3	2019
489655	4	2015	505169	3	2018	523828	3	2019
489662	4	2015	505657	3	2018	523941	3	2018
490074	4	2015	505667	3	2018	523950	3	2018
490232	4	2015	506779	3	2017	523966	3	2018
490590	5	2015	507366	3	2018	524268	3	2019
490695	4	2015	508767	3	2018	524459	3	2019
490697	4	2015	508796	3	2018	524475	3	2019
490698	4	2015	508861	3	2018	524498	3	2019
490713	4	2015	508912	3	2018	524536	3	2019
490728	5	2015	508967	3	2018	525498	3	2019
490740	5	2015	508997	3	2018	526449	3	2019
490760	4	2015	509191	3	2018	527671	3	2019
490820	>5	2015	509523	3	2018	528507	3	2019
491062	5	2015	510529	3	2017	528650	3	2019
491102	5	2015	511064	3	2018	528807	3	2019
491105	4	2015	511137	3	2017	529752	3	2019
491107	4	2015	511777	3	2018	529920	3	2019
491127	5	2015	511808	2	2018	529951	3	2018
491219	5	2015	512064	4	2015	530743	3	2019
491233	5	2015	513163	3	2017	530940	3	2019
491256	4	2015	513165	3	2018	531898	3	2019
491262	5	2015	513182	3	2018	531944	3	2019
491358	>5	2015	513489	3	2018	533011	3	2018
491814	4	2015	513572	3	2018	533541	3	2019
492368	>5	2015	513776	3	2018	533722	3	2019
493511	>5	2015	513916	3	2018	533969	3	2018
493593	4	2015	514150	2	2018	535148	3	2019
493635	4	2015	514846	3	2018	535221	3	2019
493636	4	2015	516454	3	2018	535844	3	2019
493669	4	2015	516641	3	2018	537342	3	2019
493703	4	2015	516868	3	2018	537395	3	2019
493807	5	2015	516976	3	2018	537467	3	2019
494689	3	2017	517829	3	2018	537829	3	2018
495021	3	2017	518635	3	2019	539694	3	2018
495101	4	2015	518640	3	2018			
495168	3	2017	519307	3	2018			
495278	3	2017	520341	5	2015			
495417	3	2017	520534	4	2015			
495511	3	2017	521626	>5	2015			
495833	3	2017	521643	5	2015			
495854	5	2013	521681	5	2015			
495857	3	2017	523589	3	2018			
495858	3	2017	523592	3	2018			
495868	5	2015	523594	3	2018			
495874	>5	2015	523608	3	2018			
495945	4	2015	523619	3	2019			
496005	3	2017	523625	3	2018			
496018	3	2017	523628	3	2019			
496083	4	2015	523632	3	2018			
496162	4	2015	523641	3	2019			