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ORIGINAL

December 15, 2005

Magalie Roman Salas Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

Subject: FERC Hydroelectric Project No. 11162

Submittal of Purple Loosestrife Monitoring Results-License Article 410

Dear Magalie Roman Salas:

In accordance with the July 16, 2003 Federal Energy Regulatory Commission Order Modifying and Approving Nuisance Plant Control Plan (License Article 410) we are pleased to provide you with an original and eight copies of the 2005 survey results. Copies of this report were submitted to the appropriate resources agencies for review and comment (see attached documentation). However, no comments or questions were received in response to the survey results. We anticipate discussing the survey results and future monitoring and/or control measures during our annual meeting in 2006 regarding Article 408 (Aquatic Resources Enhancement Plan).

Please contact me if you have questions or require additional information regarding this submittal.

Regards,

Natural Resources Consulting, Inc.

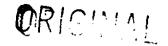
William Pool

William R. Poole Principal Scientist

Enclosure

Cc. Mildred Godoy-Daniels - Alliant Energy

Patricia Grant - FERC



PURPLE LOOSESTRIFE and EURASIAN MILFOIL SURVEY REPORT

PRAIRIE DU SAC HYDROELECTRIC PROJECT FERC Project No. 11162

PRAIRIE DU SAC, WISCONSIN

September 13, 2005



NRC Project #05-114

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PURPLE LOOSESTRIFE and EURASIAN MILFOIL SURVEY REPORT

PRAIRIE DU SAC HYDROELECTRIC PROJECT FERC Project No. 11162

PRAIRIE DU SAC, WISCONSIN

September 13, 2005

Prepared For:

Mr. Mike Prindle Wisconsin Power & Light Company S9270A Dam Road Prairie du Sac, WI 53578-9712

Prepared By:

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NRC Project # 05-114

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Prairie du Sac Hydroelectric Project WP&L September 13, 2005 Purple Loosestrife/Milfoil Survey Columbia & Sauk Counties, Wisconsin NRC Project # 05-114

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Prairie du Sac Hydroelectric Project WP&L September 13, 2005 Purple Loosestrife/Milfoil Survey Columbia & Sauk Counties, Wisconsin NRC Project # 05-114

INTRODUCTION AND OBJECTIVES

In accordance with Article 410 of the Federal Energy Regulatory Commission (FERC) Order Issuing Original License (June 27, 2002) for the Prairie du Sac Hydroelectric Project, FERC Project No. 11162-002, Wisconsin Power and Light Company (WP&L) was required to develop and implement a purple loosestrife (Lythrum salicaria) and Eurasian water milfoil (Myriophullum spicatum) monitoring plan. The purpose of the monitoring plan is to assist the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish and Wildlife Service (FWS) in controlling the spread of these nuisance plant species.

On August 4 and August 9, 2005, Natural Resources Consulting, Inc. (NRC) performed a purple loosestrife and Eurasian water milfoil survey within the project boundary of the Prairie du Sac Hydroelectric Project. The survey extended from the Prairie du Sac dam east to the I-94 bridge crossing and included all shorelines, wetlands, and islands within the ordinary high water elevation of Lake Wisconsin.

SURVEY METHODS

The survey was conducted by boat and involved slowly motoring along the impoundment shorelines, shorelines of islands, and wetlands. The survey team included a qualified botanist familiar with the ecology and identification of the target species. Locations and density of purple loosestrife occurrences were recorded using a Trimble Geographic Information System (GPS) unit capable of sub-meter accuracy. The density of each stand was estimated based on the number of plants and were categorized according to the following scale:

- > 1 to 5 plants
- > 6 to 25 plants
- > 26 to 100 plants
- > 100 to 500 plants
- > 500+ plants

Purple loosestrife locations recorded by GPS were overlaid on digitized 1995 aerial photographs. Each purple loosestrife stand was coded based on its density category (Appendix A). A comparison of purple loosestrife stand location and density from 2002 and 2005 is also provided in Appendix A. The Table located in Appendix B provides the GPS coordinates for 2005 collected data.

While surveying for purple loosestrife an effort was made to detect the presence of Eurasian milfoil within floating leaved and submersed aquatic plant beds. This survey was conducted by examining hand-pulled rake samples of submersed aquatic plants for the presence of Eurasian milfoil. When Eurasian milfoil was present the location was recorded with a GPS and the extent of infestation was estimated and categorized as low, medium, or high. The categories are based on the following general observations:

- > Low: not the dominant submersed species and only a few plants observed within the vicinity.
- > Medium: not the dominant submersed species but nearly as abundant as the dominant submersed species (subdominant).
- > High: wide spread throughout vicinity and the dominant submersed species.

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RESULTS

The survey was conducted on August 4 and August 9, 2004 while purple loosestrife was in full bloom. This species was observed to be relatively wide spread within the project boundary occurring sporadically in low densities along the steep shorelines of both residential and undeveloped areas and at high densities in many of the wetland areas within the bays and especially in the upper reaches of the project boundary along the sandbar islands. Eurasian milfoil was observed within several bays, canals, and near several shallow shorelines within the project boundaries.

The sporadic occurrences of purple loosestrife tend to be found along developed shorelines where recent disturbance has taken place such as tree removal or construction activities. It also appears that many private riparian landowners have intentionally promoted the plants for aesthetic purposes. Most of these areas contain only 1 to 5 plants. The plants growing in these areas are restricted only to the shorelines because of the presence of steep banks, manicured lawns, and/or dense tree cover.

Purple loosestrife was found to be prevalent within several of the bays and wetlands. The western extent of the southern most bay of Wiegans Bay contains a wetland complex that is infested with 100 - 500 plants and scattered pockets of 1 to 5 plants and 6 to 25 plants. The central and northern bays of Wiegans Bay are relatively free of purple loosestrife with only two stands of 1 to 5 plants. Sunset Bay, located north of E. Harmon Road, contains large wetland areas in the southwest and southeast corner both of which are dominated by over 500 purple loosestrife plants. These wetland areas continue south of STH 188 where they are also dominated by purple loosestrife. A small portion in the southwestern most part of Okee Bay continues to be infested with the species and contains over 500 plants. Although, a large portion of this bay contains ideal habitat for purple loosestrife, only a small portion is infested. A small bay extending adjacent to the south-southeast side of Pine Bluff contains a wetland complex that is codominated by over 500 purple loosestrife plants. Harmony Grove Bay contains scattered stands along the south eastern shoreline, however these wetland areas are dominated by shrub-carr vegetation and purple loosestrife is limited only to the edges. There is a considerable reduction in the extent of purple loosestrife infestation within Harmony Grove Bay compared to the 2003 survey. There is also an increase of stands with 1 to 5 plants along the shorelines of the five canals off the east side of Harmony Grove Bay. Stoners Bay contains a dense stand comprised of over 500 plants within the wetland area in the northwest portion of the bay. The surveyors were unable to enter into Whalen's Bay on the eastern part of the lake due to low clearance under the CTH V Bridge. This bay was surveyed from the western edge with binoculars. The eastern edge of the CTH V Bridge is lined with stands of 1 to 5 purple loosestrife plants. This is a considerable decrease from the 2003 and 2004 surveys. In the remaining portion of Whalen Bay no purple loosestrife plants were observed. Although, it was difficult to determine whether purple loosestrife was present or absent along the far eastern portions of Whalen Bay with binoculars.

The occurrence and abundance of purple loosestrife increases significantly approximately 2 miles upstream of Tipperary Point. This increase in purple loosestrife is due to more ideal habitat conditions for the species such as shallow water, low lying islands, wetlands, and subtle shoreline slopes. Almost all of the shorelines of the sandbar islands are infested with dense stands (500+) of purple loosestrife plants. The interior of many of these islands are also dominated by purple loosestrife however, this is dependent on the density of woody vegetation. Islands dominated by shrub-carrs and/or forested communities contain less purple loosestrife in their interiors. Several narrow channels between islands were not surveyed since water levels were too low to provide access. These areas are shown in Appendix A. However, because of the prevalence of purple loosestrife on almost all of the islands in this vicinity, it can be assumed that at least the shorelines of these areas are most likely dominated by purple loosestrife plants.

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Most of the wetland areas dominated by herbaceous wetland vegetation that are within the project boundary are dominated or co-dominated by purple loosestrife. However, there are some of these wetland types that do not contain any or only a few purple loosestrife plants. These areas include Gallus Slough, Whalen Bay (although not verified), and portions of Okee Bay.

The base of most all bays and areas with shallow shorelines within the project boundary contain submerged and floating leaved aquatic vegetation such as coon's tail, water weed, and pond lily with suitable habitat for Eurasian milfoil. Eurasian milfoil was observed at medium densities within Gallus Slough, a decrease from the 2004 survey where it occurred as a dominant species throughout most of the bay. A prolific, high density population was observed in Stoners Bay as well as near and within the residential canals off of Harmony Grove Bay. Several locations of Eurasian milfoil characterized to contain medium levels of infestation include: the western edges of two small islands located approximately 1 mile northeast of Pine Bluff; the western most portions of the north and south bays of Wiegans Bay; the northeastern shoreline of Harmony Grove; and the southern shoreline west of the CTH V Bridge. A low density of Eurasian milfoil was observed southeast of Pine Bluff.

CONCLUSIONS

The lower ¾ of the Lake Wisconsin impoundment from the Prairie du Sac dam east to approximately 2 miles upstream of Tipperary Point contains limited available habitat for extensive purple loosestrife stands with the exception of the wetland areas located at the base of several bays. These areas limit the density and extent of purple loosestrife infestation because they contain steep slopes, dense tree cover, and/or manicured lawns. We found that most wetland areas adjacent to the impoundment that were dominated by herbaceous vegetation were infested with purple loosestrife. Those wetland areas dominated by shrub-carr or forested communities limited the extent of infestation to the shorelines. Emergent wetlands not dominated with purple loosestrife should be considered high priority for monitoring and eradication to prevent these areas from becoming infested. The northeastern portion of the impoundment, approximately 2 miles north of Tipperary Point, contains the most extensive purple loosestrife infestations due to the shallow water conditions, low lying islands, and extensive wetlands. The results from the 2005 purple loosestrife survey were very similar to the 2003 and 2004 survey results. However, a distinct reduction in purple loosestrife density was observed within Harmony Grove Bay and a small bay located on the north side of the lake approximately 2 miles northeast of the Merrimac Ferry crossing from the 2003 survey. Additionally, there were fewer sporadic plants observed along the shorelines south of Wiegans Bay to the Prairie du Sac dam. Two sandbars, approximately 2 miles upstream of Tipperary Point, had portions decrease in stand size of purple loosestrife when compared to the 2003 and 2004 survey. In one instance densities decreased from 500+ plants to 100 to 500 plants and in the other it decreased significantly from 500+ plants to 6 to 25 plants.

Eurasian milfoil infestation within the project boundaries does not appear to be extensive, but was found to be more prevalent than in the 2003 survey and very similar to the 2004 survey. Eurasian milfoil occurs as the dominant submersed plant species in Stoners Bay and in and around the residential canals of Harmony Grove. Additionally, milfoil occurs as a subdominant species in portions of the western edges of two small islands located approximately 1 mile northeast of Pine Bluff, Wiegans Bay, Sunset Bay, Harmony Grove, and along the south shoreline northwest of the Okee Bridge. The base of most of the bays on the lake and many of the shallow shorelines contain habitat where Eurasian milfoil may exist or may quickly become established.

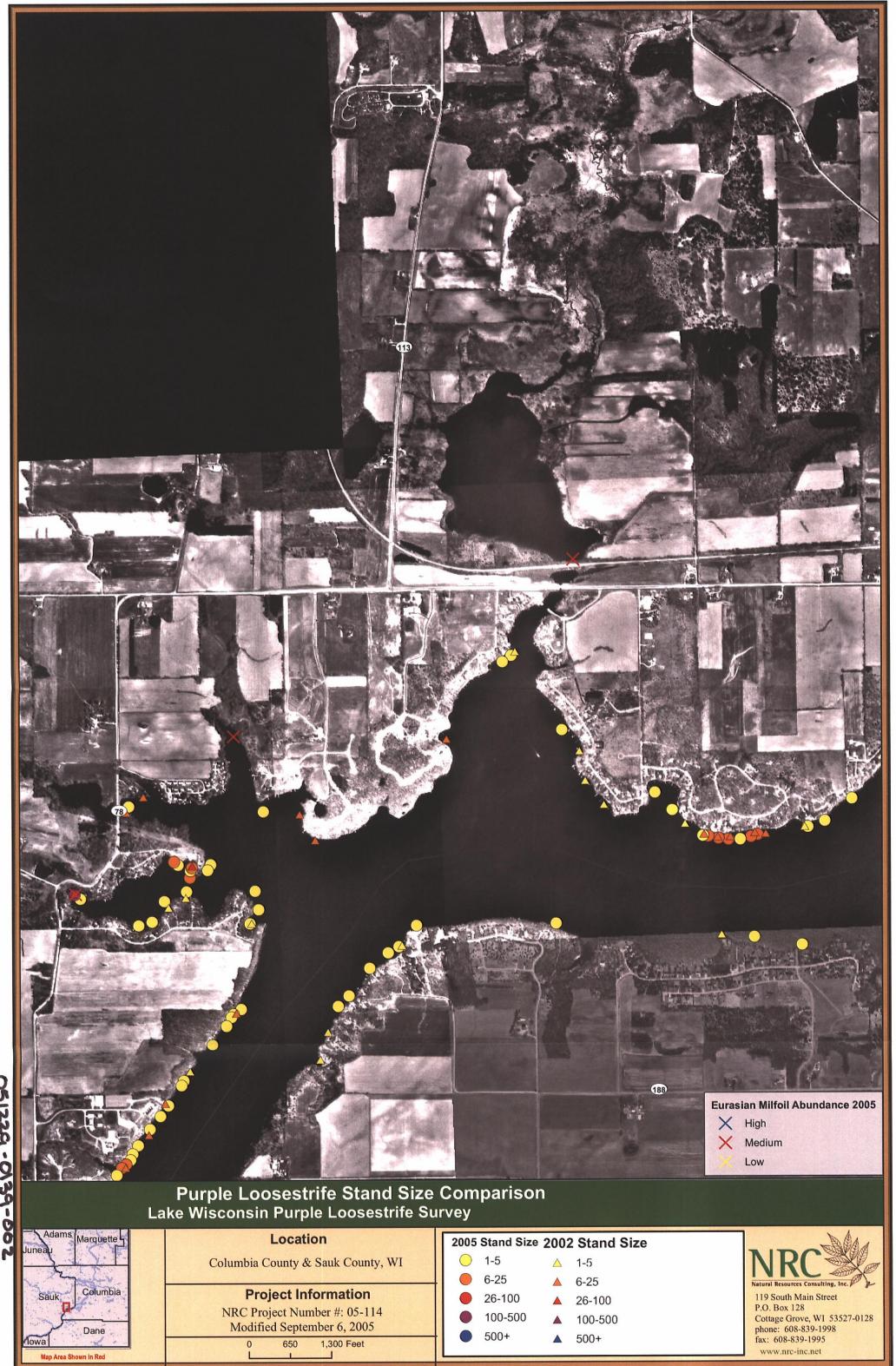
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APPENDIX A

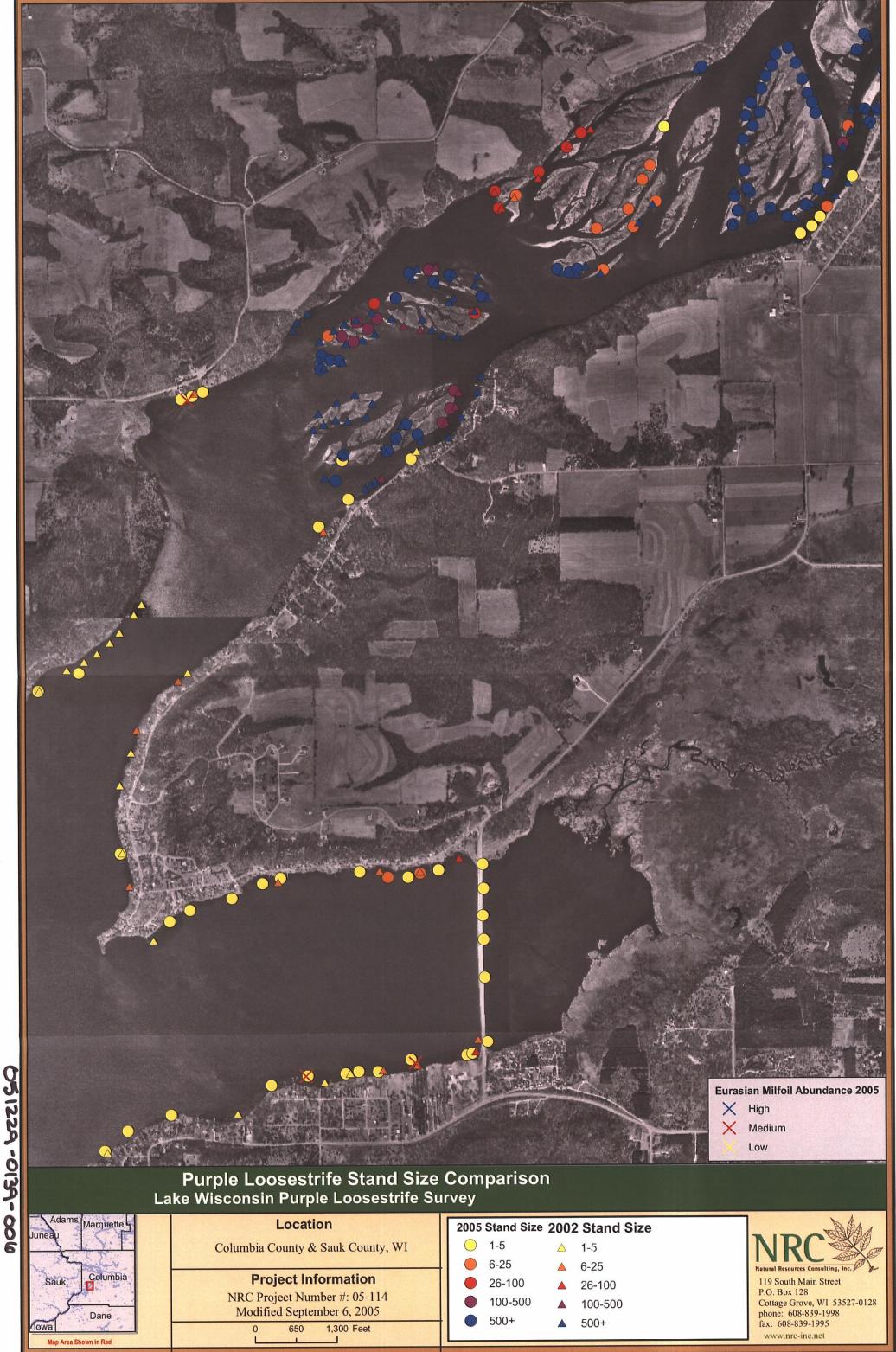
PURPLE LOOSESTRIFE LOCATION & DENSITY MAPS

Natural Resources Consulting, Inc.











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Purple Loosestrife/Milfoil Survey Columbia & Sauk Counties, Wisconsin NRC Project # 05-114

APPENDIX B

GPS COORDINATES

Point ID	Size of Loosestrife Stand	Х	Y
1	500+	2101910	523880
2	500+	2093390	516837
3	500+	2093521	517243
4	500+	2080186	508617
5	500+	2064692	493200
6	500+	2067374	492820
7	500+	2082459	492311
8	500+	2082432	499173
9	500+	2102578	524681
10	500+	2102818	524627
11	500+	2103112	524841
12	500+	2102324	524854
13	500+	2103125	525108
14	500+	2101724	523640
15	500+	2102244	524027
16	500+	2102271	523720
17	500+	2102431	523893
18	500+	2102671	524160
19	500+	2101844	523893
20	500+	2102151	523333
21	500+	2101844	522705
22	500+	2102044	522692
23	500+	2101924	522505
24	500+	2101243	521691
25	500+	2101096	521437
26	500+	2100896	521184
27	500+	2100602	520997
28	500+	2100335	521130
29	500+	2099735	520877
30	500+	2100055	520997
31	500+	2100936	522959
32	500+	2100856	523186
33	500+	2100749	523440
34	500+	2099762	521331
35	500+	2100629	523680
36	500+	2100429	523586
37	500+	2100376	523399
38	500+	2100202	523039
39	500+	2099948	522612
40	500+	2099908	522225 521744
41	500+	2099922	5217 44 523386
42	500+ 500+	2099254 2096945	520183
43	500+	2090945	520129
44	500+	2097145	520183
45	500+	2097266	519756
46	500+	2095223	520089
	500+	2094583	520129
48	500+	2094563	519996
49	500+	2094369	519729
50		1 2034303	313123

52 500+ 2093181 518821 53 500+ 2093315 518755 54 500+ 2093462 518741 55 500+ 2094222 517313 56 500+ 2094222 517313 56 500+ 2094356 517513 57 500+ 2094516 517727 58 500+ 2094516 517727 59 500+ 2094516 517727 59 500+ 2101058 522648 60 500+ 2101058 522648 60 500+ 2101010 522815 61 500+ 2100008 521394 62 500+ 2099817 521096 63 500+ 2099972 521454 64 500+ 2100070 523233 65 500+ 2100032 522815 66 500+ 2100070 523233 65 500+ 2100070 523233 65 500+ 2100070 523233 66 500+ 2100270 523237 67 500+ 2100070 522445 67 500+ 2100070 522445 67 500+ 210071 522660 68 500+ 2102992 524791 69 500+ 2102718 525289 70 500+ 2102789 525489 71 500+ 2102789 525489 73 500+ 2102284 525238 74 500+ 2102284 525238 77 500+ 2102307 525247 78 500+ 2102301 525288 79 500+ 2103300 526281 77 500+ 2102301 525288 78 500+ 2103207 525274 78 500+ 2103301 526529 79 500+ 2103207 525274 76 500+ 2103302 525892 77 500+ 2103207 525274 78 500+ 2103304 525589 78 500+ 2103292 525489 80 500+ 2102893 525692 78 500+ 2103207 525274 81 500+ 2103304 525589 80 500+ 2103302 525581 81 500+ 2103302 525581 82 500+ 2103293 525692 83 500+ 2102893 525692 84 500+ 2102893 525692 85 500+ 2102893 525692 86 500+ 2102893 525588 86 500+ 2103207 525274 87 500+ 2102894 525890 80 500+ 2102893 525589 80 500+ 2102893 525589 80 500+ 2102893 525589 80 500+ 2102893 525589 80 500+ 2102893 525589 80 500+ 2102893 525589 80 500+ 2102893 525594 81 500+ 2102893 525590 82 500+ 2102893 525591 84 500+ 2102893 525591 85 500+ 2102893 525591 86 500+ 2103207 5255751 88 500+ 2103207 5255751 88 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 5255751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 21032				510000
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64 500+ 2100270 523233 65 500+ 2100032 522815 66 500+ 2100067 522445 67 500+ 2100175 522660 68 500+ 2102610 524892 70 500+ 2102610 524892 70 500+ 2102753 525023 71 500+ 2102789 525489 72 500+ 2102789 525489 73 500+ 2102944 525238 74 500+ 2102944 525429 75 500+ 2103307 525274 76 500+ 2103307 525274 77 500+ 2103302 525680 80 500+ 2103302 525680 81 500+ 2103302 525680 80 500+ 2103302 525680 80 500+ 2102844 525580 80 500+ 2103302 525680 81 500+ 2103302 525680 82 500+ 2102894 525680 83 500+ 2102894 525680 84 500+ 2102894 525680 85 500+ 2102894 525680 86 500+ 2102894 525680 87 500+ 2102932 525178 88 500+ 2102932 525178 89 500+ 2102932 525548 86 500+ 2102932 525548 86 500+ 2102932 525548 86 500+ 2102932 525548 86 500+ 2102932 525548 86 500+ 2102932 525548 86 500+ 2102932 525548 87 500+ 2103028 525345 88 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102932 525548 89 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727 99 500+ 2102968 525727	62	500+	2099817	521096
65 500+ 2100032 522815 66 500+ 2100067 522445 67 500+ 2100175 522660 68 500+ 2102992 524701 69 500+ 2102753 525023 70 500+ 2102718 525238 72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2103944 525290 75 500+ 2103314 525525 76 500+ 2103314 525525 77 500+ 2103314 525525 78 500+ 2103100 526229 79 500+ 2102300 525549 80 500+ 2102718 525802 81 500+ 2102799 52602 79 500+ 2102799 52602 81 500+ 2102798 52680 80 500+ 2102	63	500+	2099972	521454
66 500+ 210067 522445 67 500+ 2100175 522660 68 500+ 2102992 524701 69 500+ 2102610 524892 70 500+ 2102753 525023 71 500+ 2102718 525383 72 500+ 2102799 525489 73 500+ 2102944 525499 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103362 525692 78 500+ 210362 525692 80 500+ 2102718 525884 81 500+ 2102799 52680 80 500+ 2102799 52680 80 500+ 2102799 52680 81 500+ 2102799 52680 82 500+ 2102799 52680 83 500+ 2102799 52680 84 500+ 2102799 526002 85 500+ 2102799 526002 86 500+ 2102932 526121 87 500+ 2102932 525178 88 500+ 2102932 525545 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103268 525727 89 500+ 2103273 525907 90 500+ 2103275 525600 91 500+ 2103275 526002 92 500+ 2103275 526002 93 100-500 2048954 495741 94 100-500 2048950 520183	64	500+	2100270	523233
67 500+ 2100175 522660 68 500+ 2102992 524701 69 500+ 2102610 524892 70 500+ 2102753 525023 71 500+ 2102718 525238 72 500+ 2102944 525499 73 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2103207 525274 81 500+ 2103302 525580 80 500+ 210278 525680 80 500+ 210278 525680 81 500+ 210278 526002 82 500+ 210278 526002 83 500+ 2102932 525178 84 500+ 2102932 525178 85 500+ 2102932 525178 86 500+ 2103028 525345 87 500+ 2103207 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2103255 526026 91 500+ 2103255 526026 93 100-500 2048954 495741 94 100-500 2048954 495741 95 100-500 2094890 520183 96 100-500 2094062 519409	65	500+	2100032	522815
67 500+ 2100175 522660 68 500+ 2102992 524701 69 500+ 2102610 524892 70 500+ 2102753 525023 71 500+ 2102789 525882 72 500+ 2102789 525882 73 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103314 525525 77 500+ 2103362 525892 78 500+ 2103362 525892 78 500+ 210362 525892 80 500+ 2102844 525190 80 500+ 210300 526229 81 500+ 210300 526229 82 500+ 2102718 525847 83 500+ 2102789 526002 82 500+ 2102789 526002 83 500+ 2102932 525178 84 500+ 2102932 525178 84 500+ 2102932 525178 85 500+ 2102892 525178 86 500+ 2102892 525548 87 500+ 2103028 525345 88 500+ 2103028 525345 89 500+ 2103027 525751 88 500+ 2103027 525751 88 500+ 2103027 525751 89 500+ 2103027 525751	66	500+	2100067	522445
68 500+ 2102992 524701 69 500+ 2102610 524892 70 500+ 2102753 525023 71 500+ 2102718 525238 72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2103207 525274 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103302 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102718 525847 81 500+ 2102718 525847 81 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 525178 84 500+ 2	67	500+	2100175	522660
70 500+ 2102753 525023 71 500+ 2102718 525238 72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103300 526229 78 500+ 2103100 526229 79 500+ 2102894 525847 80 500+ 2102789 526802 79 500+ 2102789 526802 80 500+ 2102789 526802 81 500+ 2102789 526002 82 500+ 2102789 526002 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2103028 5255580 87 500+		500+	2102992	524701
70 500+ 2102753 525023 71 500+ 2102718 525238 72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103302 525692 78 500+ 2103100 52629 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102789 526002 82 500+ 2102932 525178 84 500+ 2102932 525178 84 500+ 2102932 525548 85 500+ 2102932 525548 86 500+ 2102932 525548 87 500+ 21	69	500+	2102610	524892
71 500+ 2102718 525238 72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103100 526229 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102789 526002 82 500+ 2102932 525178 84 500+ 2102932 525178 84 500+ 2103932 525548 85 500+ 2103932 525548 86 500+ 2103932 525548 86 500+ 2103026 525548 87 500+ 2		500+	2102753	525023
72 500+ 2102789 525489 73 500+ 2102944 525429 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 525178 83 500+ 2102932 525178 84 500+ 2103932 525345 85 500+ 2103932 525548 86 500+ 2103932 525548 86 500+ 2103932 525548 86 500+ 2103932 525548 86 500+ 2103932 525548 87 500+ 2		500+	2102718	525238
73 500+ 2102944 525429 74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 210362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2103028 525345 86 500+ 2103028 525548 86 500+ 2103028 525548 86 500+ 210307 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 89 500+ 210			2102789	525489
74 500+ 2102944 525190 75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2103932 525548 86 500+ 2103932 525548 86 500+ 2103293 525548 86 500+ 2103207 525751 88 500+ 2103207 525751 88 500+ 2103207 525751 89 500+ 2103207 525751 89 500+ 2			2102944	525429
75 500+ 2103207 525274 76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103932 525548 86 500+ 2103932 525548 87 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2103076 526026 91 500+ 2103076 526026 91 500+ 2			2102944	525190
76 500+ 2103314 525525 77 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103028 525748 87 500+ 2103932 525548 87 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2			2103207	525274
77 500+ 2103362 525692 78 500+ 2103100 526229 79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2103207 525751 89 500+ 2102873 525907 90 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2103255 526002 93 100-500 2048954 495741 94 100-500		500+	2103314	525525
79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102968 525727 89 500+ 2103076 526026 91 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500		500+	2103362	525692
79 500+ 2102694 525680 80 500+ 2102718 525847 81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2048954 495741 94 100-500 2094890 520183 96 100-500		500+	2103100	526229
81 500+ 2102789 526002 82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	79	500+	2102694	525680
82 500+ 2102932 526121 83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2094890 520183 96 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	80	500+	2102718	525847
83 500+ 2102932 525178 84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	81	500+	2102789	526002
84 500+ 2103028 525345 85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	82	500+	2102932	526121
85 500+ 2102932 525548 86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	83	500+	2102932	525178
86 500+ 2103135 525560 87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	84	500+	2103028	525345
87 500+ 2103207 525751 88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	85	500+	2102932	525548
88 500+ 2102968 525727 89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	86	500+	2103135	525560
89 500+ 2102873 525907 90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	87	500+	2103207	<u>525751</u>
90 500+ 2103076 526026 91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	88	500+	2102968	525727
91 500+ 2103255 526002 92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	89	500+		525907
92 500+ 2101261 521896 93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	90	500+	2103076	526026
93 100-500 2048954 495741 94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	91		2103255	526002
94 100-500 2101497 522172 95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	92	500+		521896
95 100-500 2094890 520183 96 100-500 2094062 519409 97 100-500 2093742 519355	93	100-500		
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242	1-5	2060480	494920
243	1-5	2062759	495333
244	<u>1-5</u>	2063208	494899
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246	1-5	2065909	492787
247	1-5	2066510	493142
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252	1-5	2066553	493920
253	1-5	2066695	495043
254	1-5	2066744	495140
255	1-5	2066682	495315
256	1-5	2066267	495288
257	1-5	2069755	498230
258	<u>1-5</u>	2077155	497265

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259	1-5	2077821	496555
260	1-5	2078750	495960
261	1-5	2078749	495842
262	1-5	2078796	495759
263	1-5	2079226	495368
264	1-5	2079472	495230
265	1-5	2079920	495364
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267	1-5	2082105	499297
268	1-5	2081992	499212
269	1-5	2079932	500177
270	1-5	2079814	500560
271	1-5	2077864	506752
272	1-5	2076805	506069
273	1-5	2075313	505700
274	1-5	2075079	505638
275	1-5	2073393	504934
	1-5	2072989	505147
276	1-5	2072633	504295
277	1-5	2070877	503008
278		2064125	499122
279	1-5	2062493	498383
280	1-5		
281	1-5	2061272	497215
282	1-5	2060843	496863
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287	1-5	2058156	497322
288	1-5	2056688	498318
289	1-5	2055885	499504
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291	1-5	2051946	497034
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293	1-5	2051110	496211
294	1-5	2051062	496125
295	1-5	2050785	496121
296	1-5	<u>` 2050592</u>	496207
297	1-5	2049050	495679
298	1-5	2049970	495253
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308	1-5	2051349	493662
309	1-5	2051125	493362
310	1-5	2050672	492779
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311	1-5	2050634	492705
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314	_ 1-5_	2100789	525468
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319	1-5	2094596	517180
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321	1-5	2095731	508944
322	1-5	2095704	510746
323	1-5	2095771	507917
324	1-5	2095717	510359
325	1-5	2095704	509932