



RECEIVED

JUL 28 2015

PLANNING DIVISION



Development Services
Planning Division
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APPROVED: X DENIED: _____

PERMIT #: TPP-15-117

Application for Tree Removal Permit

Name of Applicant: William Mumford, PE Phone: 704-887-5946 Date: 06/25/2015

Name of Property Owner: NNP IV Cape Fear River LLC Phone: 910-343-1048

Property Owner Address: 3410 River Road Wilmington, NC 28412

Address of Proposed Tree Removal: 4410 River Road Wilmington, NC 28412

Description of tree(s) to be removed/reason for removal: (provide attachment if necessary)

- 1. See Attached 6. _____
- 2. _____ 7. _____
- 3. _____ 8. _____
- 4. _____ 9. _____
- 5. _____ 10. _____

Description of Replacement Tree(s): Trees within the Conventional neighborhood shall be replaced through the planting of street trees, buffer planting, and proposed park areas. Trees will also be preserved within conservation resource areas. See site plan.

Applicant Signature: [Signature] Date: 6-25-2015

*****FOR OFFICIAL USE ONLY*****

Reviewed By: [Signature] Date: 7-28-15

Remarks: Tree permit approved for Phase 1 per grading plan S

ALL WORK MUST BE IN COMPLIANCE WITH THE CITY LAND DEVELOPMENT CODE, ARTICLE 8, LANDSCAPING AND TREE PRESERVATION.

NEW CONSTRUCTION: X EXPANSION: _____ OTHER: _____ PAID: ok

Tree Preservation Permit Fees

Less than 1 acre	\$25.00
1-5 acres	\$50.00
5-10 acres	\$100.00
Greater than 10 acres	\$150.00

Wilmington Landscaping Ordinance

Minimum number of Trees to be on Post Development Site	
15 Trees/Acre * 47.61 Project Area	
Equals = 716 Trees	

Protected Trees to be Removed					
797	Pines	0	Gum/Maple	0	Mimosa
188	Oaks	0	Cherry	0	Poplar
0	Crate Myrtle	0	Magnolia	0	Amer. Holly
Total =		985	Trees		
Type	Regulated	Significant			
Conifers	797	0			
Hardwoods	188	0			
Flowering Trees	0	0			
Total Removed =		985			

Regulated Trees for Mitigation			
Pines	(10,266 DBH * 50%)	/	3 = 1,711 Trees
Oaks	(1,805 DBH * 100%)	/	3 = 535 Trees
Gum/Maple	(0 DBH * 50%)	/	3 =
Cherry	(0 DBH * 0%)	/	3 =
Crate Myrtle	(0 DBH * 0%)	/	3 =
Magnolia	(0 DBH * 0%)	/	3 =
Mimosa	(0 DBH * 0%)	/	3 =
Poplar	(0 DBH * 0%)	/	3 =
Amer. Holly	(0 DBH * 100%)	/	3 =

Significant Trees for Mitigation			
Oaks	(0 DBH *2* 100%)	/	3 =
Gum/Maple	(0 DBH *2* 50%)	/	3 =
Cherry	(0 DBH *2* 0%)	/	3 =
Crate Myrtle	(0 DBH *2* 0%)	/	3 =
Magnolia	(0 DBH *2* 0%)	/	3 =
Mimosa	(0 DBH *2* 0%)	/	3 =
Poplar	(0 DBH *2* 0%)	/	3 =
Amer. Holly	(0 DBH *2* 100%)	/	3 =

Northing	Easting	Elevation	Description	DBH
145421	2322334	18.3	OAK	8
145416	2322331	17.5	OAK	8
145672	2321422	18.1	OAK	8
145682	2321412	19.1	OAK	8
145678	2321412	18.8	OAK	8
145702	2321372	17.3	OAK	8
145673	2321444	17.9	OAK	8
145602	2321462	14.1	OAK	8
145672	2321595	18.9	OAK	8
145447	2321613	7.4	OAK	8
145446	2321613	7.2	OAK	8
145462	2321623	8.4	OAK	8
145486	2321609	11.4	OAK	8
145494	2321611	11.6	OAK	8
145725	2321595	19.7	OAK	8
145774	2321681	18.3	OAK	8
145807	2321702	19.0	OAK	8
145680	2321748	19.9	OAK	8
145878	2321621	24.1	OAK	8
145826	2321615	22.5	OAK	8
145470	2321814	9.3	OAK	8
145854	2321735	22.1	OAK	8
145723	2321799	19.7	OAK	8
145884	2321736	24.6	OAK	8
145833	2321760	19.9	OAK	8
145813	2321774	18.0	OAK	8
145773	2321795	17.6	OAK	8
145771	2321786	17.6	OAK	8
145653	2321859	22.4	OAK	8
145679	2321848	22.4	OAK	8
145388	2321939	10.3	OAK	8
146446	2321037	10.0	OAK	8
146248	2321108	10.5	OAK	8
146241	2321218	12.1	OAK	8
146239	2321220	12.4	OAK	8
146275	2321217	10.8	OAK	8
146274	2321229	10.9	OAK	8
146280	2321228	10.6	OAK	8
146322	2321216	8.6	OAK	8
146541	2320969	8.3	OAK	8
145917	2321292	23.4	OAK	8
145899	2321315	25.0	OAK	8
145937	2321234	20.6	OAK	8
145959	2321439	23.6	OAK	8
145872	2321479	24.0	OAK	8

146038	2321197	21.2	OAK	8
146045	2321217	21.3	OAK	8
146136	2321146	16.8	OAK	8
146151	2321206	15.6	OAK	8
146122	2321210	17.4	OAK	8
146088	2321269	19.3	OAK	8
146088	2321281	19.9	OAK	8
146093	2321302	19.2	OAK	8
146070	2321300	20.5	OAK	8
146086	2321350	18.3	OAK	8
146126	2321366	15.7	OAK	8
146084	2321356	17.9	OAK	8
146116	2321321	17.6	OAK	8
145978	2321596	27.5	OAK	8
146026	2321655	27.2	OAK	8
146181	2321686	16.3	OAK	8
146184	2321685	16.1	OAK	8
146103	2321747	20.2	OAK	8
145956	2321074	13.7	OAK	8
145860	2321132	15.9	OAK	8
145824	2321013	8.8	OAK	8
145859	2321066	10.7	OAK	8
146031	2320989	15.2	OAK	8
146038	2320979	15.9	OAK	8
146060	2320936	16.6	OAK	8
145956	2320904	8.3	OAK	8
146009	2320879	13.1	OAK	8
145732	2321122	16.7	OAK	8
145731	2321121	16.7	OAK	8
145704	2321133	16.9	OAK	8
145730	2321071	12.3	OAK	8
145737	2321057	11.0	OAK	8
145667	2321169	19.1	OAK	8
145673	2321184	20.2	OAK	8
145623	2321237	20.1	OAK	8
145593	2321197	18.0	OAK	8
145575	2321171	16.9	OAK	8
145637	2322136	21.0	OAK	8
145483	2321907	14.1	OAK	8
145323	2322058	15.4	OAK	8
145394	2322358	12.2	OAK	8
147295	2321408	18.5	OAK	8
147287	2321396	18.3	OAK	8
147289	2321394	18.4	OAK	8
147245	2321412	19.9	OAK	8
147232	2321381	20.1	OAK	8
147253	2321335	18.4	OAK	8

147112	2321329	22.4	OAK	8
147189	2321337	21.1	OAK	8
147203	2321315	20.0	OAK	8
147163	2321362	22.4	OAK	8
147162	2321364	22.9	OAK	8
147016	2321288	17.4	OAK	8
146849	2321121	8.9	OAK	8
146838	2321851	22.2	OAK	8
146724	2321887	21.0	OAK	8
146692	2321851	20.8	OAK	8
146810	2321813	22.4	OAK	8
146638	2321157	8.2	OAK	8
146545	2321089	9.1	OAK	8
146803	2321237	15.5	OAK	8
146527	2321659	20.0	OAK	8
146396	2321727	16.2	OAK	8
146250	2321723	13.7	OAK	8
146314	2321477	9.7	OAK	8
146316	2321501	9.3	OAK	8
146198	2321589	13.7	OAK	8
146032	2321511	21.6	OAK	8
146151	2321421	13.4	OAK	8
146187	2321458	11.7	OAK	8
146211	2321546	12.5	OAK	8
146206	2321551	12.9	OAK	8
146264	2321491	8.3	OAK	8
146224	2321374	11.5	OAK	8
146168	2321347	14.6	OAK	8
146146	2321769	20.3	OAK	8
146236	2320843	9.6	OAK	8
146101	2320908	18.4	OAK	8
145579	2321308	16.2	OAK	8
145554	2321293	14.4	OAK	8
145541	2321280	13.8	OAK	8
145557	2321347	13.8	OAK	8
145546	2321348	12.9	OAK	8
145538	2321365	12.6	OAK	8
145534	2321371	12.1	OAK	8
145425	2321377	8.6	OAK	8
145511	2321324	11.2	OAK	8
145492	2321283	10.6	OAK	8
145564	2321205	16.6	OAK	8
145552	2321277	14.4	OAK	8
145573	2321262	16.4	OAK	8
145587	2321259	17.3	OAK	8
145598	2321245	18.3	OAK	8
145559	2322466	15.8	OAK	9

145503	2322351	24.7	OAK	9
145419	2322362	16.3	OAK	9
145703	2321370	17.0	OAK	9
145589	2321476	13.8	OAK	9
145497	2321560	9.6	OAK	9
145692	2321648	20.3	OAK	9
146261	2321195	10.6	OAK	9
146297	2321339	11.7	OAK	9
146114	2321214	18.0	OAK	9
145874	2321070	11.0	OAK	9
145708	2321108	15.0	OAK	9
145695	2321100	14.0	OAK	9
145680	2321220	22.7	OAK	9
145569	2321186	16.6	OAK	9
145781	2321923	19.7	OAK	9
145985	2321828	25.6	OAK	10
146223	2320989	12.0	OAK	10
145784	2321593	21.0	OAK	10
145718	2321643	19.7	OAK	10
145771	2321667	18.9	OAK	10
145760	2321708	16.8	OAK	10
145798	2321704	18.1	OAK	10
145805	2321691	19.4	OAK	10
145804	2321657	20.8	OAK	10
145728	2321711	17.6	OAK	10
146330	2321169	8.1	OAK	10
146265	2321271	12.7	OAK	10
145936	2321224	20.0	OAK	10
146162	2321222	15.6	OAK	10
145938	2320983	8.5	OAK	10
145694	2321097	13.7	OAK	10
145623	2321167	18.0	OAK	10
145583	2321177	17.4	OAK	10
145601	2322138	20.6	OAK	10
145352	2322231	17.4	OAK	10
146860	2321079	8.9	OAK	10
146621	2321097	6.7	OAK	10
146434	2321515	13.3	OAK	10
146188	2321735	18.0	OAK	10
146077	2320847	17.5	OAK	10
145494	2321294	10.5	OAK	10
145515	2321386	11.8	OAK	10
146354	2321336	9.7	OAK	11
145504	2322383	24.0	OAK	12
145422	2321405	9.8	OAK	12
145428	2321463	11.0	OAK	12
145498	2321299	10.8	OAK	12

145097	2322501	6.7	OAK	12
146274	2320827	7.6	OAK	16
146390	2320899	8.5	PINE	12
146336	2320911	9.4	PINE	12
146271	2321036	12.4	PINE	12
146267	2321069	11.7	PINE	12
146256	2321082	11.4	PINE	12
146234	2321128	10.6	PINE	12
146209	2321096	10.3	PINE	12
144731	2322606	18.8	PINE	12
145205	2322428	14.4	PINE	12
145197	2322359	14.7	PINE	12
145197	2322374	14.6	PINE	12
145506	2322669	14.6	PINE	12
145428	2322732	12.1	PINE	12
145421	2322787	13.5	PINE	12
145378	2322745	11.3	PINE	12
145580	2322548	13.3	PINE	12
145577	2322534	12.5	PINE	12
145598	2322533	13.7	PINE	12
145573	2322504	12.0	PINE	12
145599	2322438	17.8	PINE	12
145625	2322342	26.0	PINE	12
145524	2322364	25.8	PINE	12
145498	2322421	20.9	PINE	12
145511	2322440	19.2	PINE	12
145520	2322433	20.1	PINE	12
145505	2322455	16.4	PINE	12
145469	2322385	20.9	PINE	12
145441	2322415	15.0	PINE	12
145502	2322328	25.5	PINE	12
145493	2322315	25.4	PINE	12
145480	2322523	9.4	PINE	12
145748	2321548	20.9	PINE	12
145598	2321659	18.6	PINE	12
145755	2321559	20.9	PINE	12
145566	2321690	15.7	PINE	12
145573	2321680	16.3	PINE	12
145822	2321629	22.4	PINE	12
145837	2321629	22.5	PINE	12
145731	2321641	19.7	PINE	12
145783	2321668	19.3	PINE	12
145719	2321739	17.8	PINE	12
145681	2321698	20.1	PINE	12
145864	2321610	23.2	PINE	12
145859	2321604	23.2	PINE	12
145884	2321628	24.7	PINE	12

145815	2321646	22.1	PINE	12
145797	2321648	21.2	PINE	12
145459	2321829	9.0	PINE	12
145497	2321817	11.7	PINE	12
145688	2321782	20.7	PINE	12
145567	2321907	19.6	PINE	12
145690	2321829	21.8	PINE	12
145504	2321911	14.7	PINE	12
145551	2321943	18.7	PINE	12
145578	2321913	20.2	PINE	12
146324	2321050	12.3	PINE	12
146432	2320940	9.6	PINE	12
146433	2321009	10.9	PINE	12
146458	2321047	10.1	PINE	12
146444	2321054	9.7	PINE	12
146418	2321044	9.7	PINE	12
146367	2321090	9.8	PINE	12
146335	2321138	9.1	PINE	12
146318	2321125	10.4	PINE	12
146248	2321147	10.3	PINE	12
146365	2321170	6.6	PINE	12
146420	2321163	4.9	PINE	12
146419	2321188	4.2	PINE	12
146417	2321286	5.1	PINE	12
146279	2321291	12.6	PINE	12
146259	2321357	12.3	PINE	12
146464	2320924	7.2	PINE	12
146482	2320947	7.8	PINE	12
146462	2320969	9.8	PINE	12
146494	2321000	10.1	PINE	12
146494	2321037	10.6	PINE	12
146533	2320927	5.7	PINE	12
145954	2321226	20.4	PINE	12
145978	2321378	23.1	PINE	12
145962	2321381	24.0	PINE	12
145942	2321398	24.7	PINE	12
145993	2321457	21.8	PINE	12
145887	2321466	24.7	PINE	12
146072	2321227	20.1	PINE	12
146051	2321162	21.1	PINE	12
146021	2321230	22.0	PINE	12
146103	2321200	19.0	PINE	12
146092	2321175	19.8	PINE	12
146116	2321126	17.9	PINE	12
146140	2321164	16.8	PINE	12
146154	2321174	14.8	PINE	12
146208	2321182	12.4	PINE	12

146192	2321258	15.6	PINE	12
146157	2321255	16.6	PINE	12
146161	2321263	17.4	PINE	12
146095	2321276	19.2	PINE	12
146134	2321345	16.2	PINE	12
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145991	2321584	26.8	PINE	12
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145970	2321652	28.9	PINE	12
146085	2321651	21.9	PINE	12
146188	2321650	14.3	PINE	12
146150	2321664	16.9	PINE	12
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145881	2321099	12.7	PINE	12
145843	2321110	14.7	PINE	12
145791	2321160	19.6	PINE	12
145970	2320994	11.1	PINE	12
145932	2320949	6.8	PINE	12
145774	2321079	13.6	PINE	12
145787	2321034	10.4	PINE	12
145767	2321043	10.6	PINE	12
145763	2321041	10.6	PINE	12
145614	2321253	19.7	PINE	12
145617	2321218	19.9	PINE	12
145574	2322097	23.6	PINE	12
145575	2322088	23.6	PINE	12
145643	2322125	22.0	PINE	12
145482	2322156	-69.9	PINE	12
145535	2321970	18.1	PINE	12
145207	2321968	13.9	PINE	12
145218	2322074	13.5	PINE	12
145226	2322210	10.7	PINE	12
145225	2321939	14.4	PINE	12
145255	2321964	14.2	PINE	12
145279	2321975	13.4	PINE	12
145324	2321980	12.7	PINE	12
145321	2322035	15.0	PINE	12
145331	2321993	13.3	PINE	12
145379	2321977	11.8	PINE	12
145365	2321994	12.8	PINE	12
145423	2322084	20.3	PINE	12
145239	2322256	11.3	PINE	12
145271	2322325	12.9	PINE	12

145229	2322368	14.2	PINE	12
145350	2322364	6.1	PINE	12
145388	2322273	18.2	PINE	12
145353	2322233	17.4	PINE	12
145403	2322256	20.2	PINE	12
145457	2322319	22.5	PINE	12
145438	2322299	21.9	PINE	12
145443	2322271	22.6	PINE	12
145434	2322267	22.6	PINE	12
147304	2321426	18.5	PINE	12
147298	2321412	18.3	PINE	12
147282	2321421	18.4	PINE	12
147261	2321416	19.3	PINE	12
147253	2321406	19.3	PINE	12
147214	2321407	21.2	PINE	12
147273	2321372	18.5	PINE	12
147278	2321360	18.6	PINE	12
147236	2321323	18.5	PINE	12
147234	2321356	19.3	PINE	12
147184	2321359	21.5	PINE	12
147180	2321370	22.0	PINE	12
147172	2321329	22.2	PINE	12
147159	2321377	22.9	PINE	12
147062	2321320	20.3	PINE	12
147007	2321297	17.1	PINE	12
146975	2321258	15.5	PINE	12
146960	2321275	15.1	PINE	12
146927	2321124	12.7	PINE	12
146887	2321172	11.8	PINE	12
146855	2321043	8.2	PINE	12
146881	2321048	10.4	PINE	12
146889	2321056	10.8	PINE	12
146915	2321074	12.8	PINE	12
146902	2321802	22.1	PINE	12
146877	2321860	21.9	PINE	12
146865	2321879	21.8	PINE	12
146817	2321936	21.9	PINE	12
146848	2321849	22.2	PINE	12
146821	2321866	21.5	PINE	12
146716	2321873	20.7	PINE	12
146709	2321848	20.9	PINE	12
146774	2321809	21.9	PINE	12
146755	2321778	21.0	PINE	12
146793	2321957	23.0	PINE	12
146673	2321474	13.4	PINE	12
146628	2321446	12.1	PINE	12
146668	2321517	14.6	PINE	12

146674	2321468	13.7	PINE	12
146646	2321408	12.5	PINE	12
146674	2321395	14.2	PINE	12
146731	2321304	17.9	PINE	12
146901	2321472	21.1	PINE	12
146919	2321449	20.5	PINE	12
146638	2321870	24.0	PINE	12
146638	2321950	25.5	PINE	12
146629	2321945	25.7	PINE	12
146607	2321973	26.0	PINE	12
146416	2321744	18.1	PINE	12
146732	2321120	7.3	PINE	12
146686	2321128	7.3	PINE	12
146745	2321192	13.3	PINE	12
146722	2321229	15.2	PINE	12
146631	2321213	10.2	PINE	12
146643	2321223	11.5	PINE	12
146669	2321239	13.5	PINE	12
146652	2321213	11.6	PINE	12
146560	2321175	5.9	PINE	12
146558	2321162	6.2	PINE	12
146579	2321146	7.3	PINE	12
146574	2321145	7.4	PINE	12
146590	2321144	7.6	PINE	12
146501	2321130	5.9	PINE	12
146520	2321105	8.4	PINE	12
146543	2321068	9.9	PINE	12
146599	2321107	7.8	PINE	12
146589	2320961	5.6	PINE	12
146553	2320959	6.7	PINE	12
146580	2320974	6.4	PINE	12
146544	2320988	8.4	PINE	12
146518	2320999	10.0	PINE	12
146518	2321005	10.0	PINE	12
146509	2320993	9.6	PINE	12
146507	2321064	10.1	PINE	12
146806	2321178	12.0	PINE	12
146825	2321201	12.8	PINE	12
146885	2321240	13.8	PINE	12
146907	2321248	13.9	PINE	12
146809	2321250	15.9	PINE	12
146789	2321255	16.3	PINE	12
146791	2321226	15.4	PINE	12
146774	2321231	15.8	PINE	12
146770	2321258	17.0	PINE	12
146780	2321285	17.9	PINE	12
146741	2321269	17.4	PINE	12

146667	2321316	14.6	PINE	12
146651	2321277	13.2	PINE	12
146528	2321411	9.5	PINE	12
146581	2321390	10.0	PINE	12
146608	2321396	11.2	PINE	12
146581	2321434	11.2	PINE	12
146591	2321514	14.7	PINE	12
146516	2321478	12.4	PINE	12
146514	2321514	14.0	PINE	12
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146489	2321402	8.2	PINE	12
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146514	2321305	4.5	PINE	12
146538	2321306	5.2	PINE	12
146366	2321388	10.2	PINE	12
146355	2321406	10.8	PINE	12
146340	2321440	11.6	PINE	12
146344	2321447	11.7	PINE	12
146384	2321472	12.0	PINE	12
146651	2321542	15.5	PINE	12
146643	2321551	15.7	PINE	12
146604	2321587	17.0	PINE	12
146608	2321574	16.5	PINE	12
146576	2321612	17.7	PINE	12
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146463	2321656	18.8	PINE	12
146513	2321566	16.2	PINE	12
146455	2321599	16.6	PINE	12
146451	2321577	15.8	PINE	12
146425	2321501	13.1	PINE	12
146421	2321505	12.9	PINE	12
146412	2321495	12.3	PINE	12
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146413	2321671	16.2	PINE	12
146422	2321673	16.7	PINE	12
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146352	2321703	13.2	PINE	12
146362	2321710	13.8	PINE	12
146352	2321722	13.9	PINE	12
146345	2321761	15.1	PINE	12
146302	2321784	16.6	PINE	12

146299	2321740	14.7	PINE	12
146278	2321692	11.3	PINE	12
146302	2321667	9.9	PINE	12
146274	2321650	8.6	PINE	12
146319	2321651	9.5	PINE	12
146323	2321647	9.5	PINE	12
146313	2321595	6.7	PINE	12
146275	2321597	7.9	PINE	12
146334	2321616	8.6	PINE	12
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146270	2321551	9.0	PINE	12
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146142	2321498	15.6	PINE	12
146101	2321556	19.1	PINE	12
146059	2321592	23.3	PINE	12
146022	2321539	23.8	PINE	12
146100	2321388	16.3	PINE	12
146118	2321398	15.6	PINE	12
146126	2321399	15.4	PINE	12
146156	2321401	13.2	PINE	12
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146232	2321523	10.7	PINE	12
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146232	2321323	13.8	PINE	12
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146197	2321323	15.2	PINE	12
146168	2321776	20.4	PINE	12
146205	2321794	20.0	PINE	12
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146479	2322011	22.4	PINE	12
146540	2322013	23.5	PINE	12
146476	2322063	23.6	PINE	12
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146420	2322086	25.5	PINE	12
146527	2322102	24.3	PINE	12

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146557	2322066	23.8	PINE	12
146555	2322108	24.5	PINE	12
146677	2322074	28.0	PINE	12
146664	2322092	27.8	PINE	12
146623	2322180	27.3	PINE	12
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146780	2321984	24.4	PINE	12
146176	2320851	13.5	PINE	12
146169	2320852	14.0	PINE	12
146136	2320883	17.2	PINE	12
146142	2320845	15.2	PINE	12
146148	2320826	14.0	PINE	12
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145222	2322670	11.3	PINE	12
145182	2322681	7.6	PINE	12
145167	2322636	8.6	PINE	12
145254	2322691	12.1	PINE	12
145099	2322720	9.2	PINE	12
145141	2322614	7.6	PINE	12
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145294	2322637	13.0	PINE	12
145342	2322615	13.8	PINE	12
145316	2322604	14.3	PINE	12
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145235	2322473	14.6	PINE	12
145226	2322451	14.6	PINE	12
145216	2322438	14.6	PINE	12
145186	2322501	12.1	PINE	12
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145129	2322536	8.2	PINE	12
145110	2322533	7.1	PINE	12
145107	2322507	6.8	PINE	12
145095	2322507	6.5	PINE	12
145107	2322497	6.8	PINE	12
145093	2322481	6.5	PINE	12
145022	2322560	8.9	PINE	12
145050	2322541	7.5	PINE	12
145055	2322524	7.0	PINE	12
145070	2322525	6.6	PINE	12
144926	2322685	15.7	PINE	12
144775	2322655	16.0	PINE	12
145155	2322603	8.7	PINE	12
144955	2322545	10.0	PINE	13
145698	2321762	19.6	PINE	13
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145925	2321665	27.4	PINE	13
145603	2321807	19.9	PINE	13
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146176	2321623	14.5	PINE	13
145718	2321148	18.5	PINE	13
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146013	2320871	13.5	PINE	13
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145540	2322453	17.3	PINE	14
145498	2322460	15.5	PINE	14
145444	2322385	18.2	PINE	14
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145481	2321690	7.6	PINE	14
145599	2321687	18.1	PINE	14
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146387	2321313	7.9	PINE	14
146286	2321301	12.4	PINE	14
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145284	2321994	14.2	PINE	14
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145373	2322051	16.7	PINE	14
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145424	2322093	21.7	PINE	14
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145403	2322319	17.6	PINE	14
145436	2322276	22.2	PINE	14
145418	2322269	20.9	PINE	14
145502	2322189	24.9	PINE	14

145504	2322172	24.7	PINE	14
147023	2321314	18.3	PINE	14
146913	2321169	12.5	PINE	14
146874	2321179	11.8	PINE	14
146870	2321117	9.6	PINE	14
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146342	2321414	11.0	PINE	14
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146360	2321430	11.5	PINE	14
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146240	2321812	20.0	PINE	14
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146186	2321720	17.6	PINE	14
146190	2321730	17.7	PINE	14

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145443	2321368	9.1	PINE	14
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145072	2322728	10.5	PINE	14
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146391	2321320	7.5	PINE	15
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145702	2321923	22.5	PINE	15
145449	2322143	24.7	PINE	15
145389	2322185	21.4	PINE	15
146451	2320907	6.8	PINE	16

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144902	2322550	10.3	PINE	16
145202	2322398	14.7	PINE	16
145407	2322831	15.0	PINE	16
145565	2322557	13.0	PINE	16
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145618	2321840	21.1	PINE	16
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145521	2321964	17.9	PINE	16
145426	2321992	13.4	PINE	16
145451	2321996	13.1	PINE	16
145209	2321995	14.1	PINE	16
145215	2322007	14.5	PINE	16
145239	2322012	15.1	PINE	16
145308	2322073	16.0	PINE	16
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145304	2322029	15.5	PINE	16
145428	2322000	13.4	PINE	16
145453	2322010	14.4	PINE	16
145329	2322159	16.6	PINE	16
145281	2322319	12.8	PINE	16
145251	2322391	14.2	PINE	16
145314	2322377	8.4	PINE	16
145443	2322313	21.4	PINE	16
145473	2322289	23.7	PINE	16
146821	2321103	8.0	PINE	16
146818	2321104	8.1	PINE	16
146920	2321061	13.3	PINE	16
146932	2321511	22.0	PINE	16
146931	2321628	20.2	PINE	16
146684	2321487	13.8	PINE	16
146616	2321439	12.0	PINE	16
146670	2321363	14.4	PINE	16
146755	2321124	8.0	PINE	16
146783	2321128	9.0	PINE	16
146793	2321146	10.5	PINE	16
146612	2321157	8.2	PINE	16
146641	2321240	11.9	PINE	16
146654	2321243	13.0	PINE	16

146588	2321187	6.9	PINE	16
146587	2321179	7.1	PINE	16
146539	2321135	7.1	PINE	16
146590	2321116	8.1	PINE	16
146560	2320980	7.6	PINE	16
146511	2321045	10.5	PINE	16
146712	2321303	17.2	PINE	16
146658	2321286	14.0	PINE	16
146615	2321253	10.4	PINE	16
146577	2321315	8.6	PINE	16
146568	2321321	8.2	PINE	16
146565	2321421	10.6	PINE	16
146591	2321440	11.6	PINE	16
146596	2321444	11.7	PINE	16
146559	2321459	11.8	PINE	16
146554	2321527	14.9	PINE	16
146503	2321491	12.7	PINE	16
146407	2321385	8.9	PINE	16
146490	2321648	19.8	PINE	16
146405	2321651	15.4	PINE	16
146405	2321707	16.7	PINE	16
146305	2321701	12.1	PINE	16
146264	2321699	12.3	PINE	16
146289	2321677	10.7	PINE	16
146294	2321676	10.6	PINE	16
146273	2321621	8.1	PINE	16
146297	2321623	7.0	PINE	16
146244	2321608	10.3	PINE	16
146264	2321561	9.6	PINE	16
146264	2321550	9.4	PINE	16
146169	2321540	15.4	PINE	16
146046	2321502	20.7	PINE	16
146207	2321505	12.2	PINE	16
146171	2320815	11.9	PINE	16
146088	2320828	16.3	PINE	16
145204	2322689	8.9	PINE	16
145258	2322733	11.6	PINE	16
145372	2322678	11.5	PINE	16
145339	2322661	10.8	PINE	16
145443	2322568	14.6	PINE	16
145403	2322404	10.7	PINE	16
145285	2322394	12.9	PINE	16
145261	2322531	15.0	PINE	16
145239	2322479	14.4	PINE	16
145151	2322531	10.0	PINE	16
145037	2322485	7.4	PINE	16
145046	2322487	7.0	PINE	16

145024	2322542	8.2	PINE	16
145077	2322530	6.3	PINE	16
145545	2321782	15.1	PINE	17
145582	2321803	18.5	PINE	17
146345	2320955	10.8	PINE	17
146321	2321310	11.4	PINE	17
146073	2321772	22.5	PINE	17
145925	2320992	8.0	PINE	17
145617	2322090	23.2	PINE	17
145928	2321759	27.4	PINE	18
145408	2321926	11.1	PINE	18
145631	2322142	21.3	PINE	18
145569	2322157	19.1	PINE	18
145386	2322139	21.3	PINE	18
145384	2322367	10.6	PINE	18
145413	2322282	20.5	PINE	18
146645	2321454	12.6	PINE	18
146631	2321421	11.9	PINE	18
146589	2321287	9.2	PINE	18
146578	2321298	8.2	PINE	18
146580	2321364	9.9	PINE	18
146620	2321497	14.4	PINE	18
146581	2321561	16.3	PINE	18
146305	2321563	7.4	PINE	18
146216	2320821	9.5	PINE	18
146205	2320831	10.9	PINE	18
145066	2322595	8.4	PINE	18
144929	2322650	15.3	PINE	18
145597	2321719	18.2	PINE	19
146204	2320999	12.3	PINE	20
145709	2321714	18.9	PINE	20
145489	2321816	11.3	PINE	20
145601	2321839	20.2	PINE	20
145436	2321942	12.8	PINE	20
145264	2322181	12.5	PINE	20
145319	2322411	9.5	PINE	20
146799	2321090	6.4	PINE	20
146587	2321131	8.1	PINE	20
146204	2321627	13.5	PINE	20
146378	2321506	11.8	PINE	20
145414	2322475	8.6	PINE	20
145380	2322518	15.2	PINE	20
145068	2322594	8.3	PINE	20
145037	2322600	10.3	PINE	20
145381	2321869	6.5	PINE	22
145348	2322470	12.5	PINE	22

145235	2322279	12.8	PINE	24
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