
APPENDICES

APPENDIX 1.0 NOP AND COMMENTS



Notice of Preparation

DATE: January 16, 2009

TO: Responsible Agencies, Organizations and Interested Parties

LEAD AGENCY: City of Ione
Contact: Christopher Jordan, AICP, City Planner
1 East Main Street
P.O. Box 398
Ione, CA 95640

SUBJECT: Environmental Impact Report for the Ione General Plan Update

In discharging its duties under Section 15021 of the State California Environmental Quality Act (CEQA) Guidelines, the City of Ione (as Lead Agency) intends to prepare an Environmental Impact Report for the City of Ione General Plan Update (proposed project). In accordance with Section 15082 of the State CEQA Guidelines, the City of Ione has prepared this Notice of Preparation to provide Responsible Agencies and other interested parties with sufficient information describing the proposed project and its potential environmental effects.

Project Name: Ione General Plan Update

Project Location: The City of Ione is located in southwestern Amador County approximately 30 miles southeast of Sacramento and 30 miles northeast of Stockton at the junction of State Highways 124 and 104 (see **Figure 1** for the regional location). The Ione General Plan Planning Area boundary (the study area for the General Plan update) encompasses approximately 31,770 acres and includes the existing City limits, sphere of influence (SOI), and lands just beyond the SOI (see **Figure 2** for the General Plan Planning Area).

Project Description: The proposed project consists of adoption of an updated General Plan for the City of Ione, an SOI amendment and annexation of land associated with the City's wastewater treatment plant and additional land(s), updates to the City's Zoning Code (Title 17 of the City's Municipal Code), and various roadway improvements.

The determination to prepare an Environmental Impact Report (EIR) for this project was made by the City of Ione. The EIR will address the following environmental issues:

- | | | |
|------------------------|-------------------------------|---------------------------------|
| • Aesthetics | • Geology/Soils | • Noise |
| • Agriculture | • Hazards/Hazardous Materials | • Population/Housing/Employment |
| • Air Quality | • Hydrology/Water Quality | • Public Services/Utilities |
| • Biological Resources | • Land Use/Planning | • Recreation |
| • Cultural Resources | • Mineral Resources | • Transportation/Traffic |

As specified by the State CEQA Guidelines and the City's local CEQA Guidelines, the Notice of Preparation will be circulated for a 30-day review period. The City of Lone welcomes agency and public input during this review. In the event that no response or request for additional time is received by any Responsible Agency by the end of the review period, the Lead Agency may presume that the Responsible Agency has no response.

Comments may be submitted in writing during the review period and addressed to:

Christopher Jordan, AICP, City Planner
City of Lone
1 East Main Street
P.O. Box 398
Lone, CA 95640

In addition, oral comments will be accepted at a **Public Scoping Meeting** on **Tuesday, February 10, 2009**, from 4:00 to 5:45 p.m. in the Lone City Hall, Council Chambers located at 1 East Main Street, Lone. Questions should be directed to Christopher Jordan, AICP, City Planner, at the same location or at (209) 274-2412, x104. Copies of this Notice of Preparation are available at City Hall.

The comment period for the Notice of Preparation closes on February 16, 2009

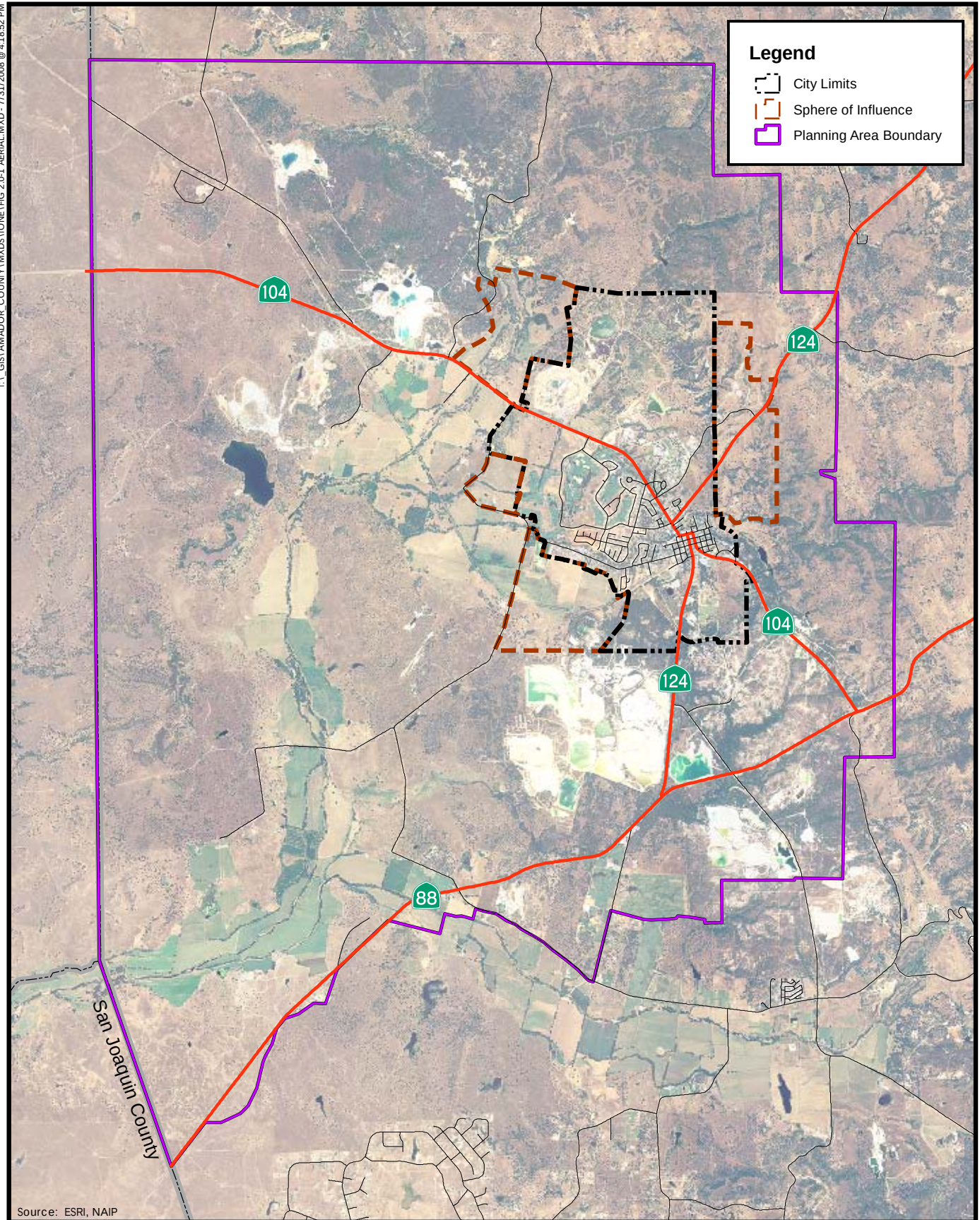
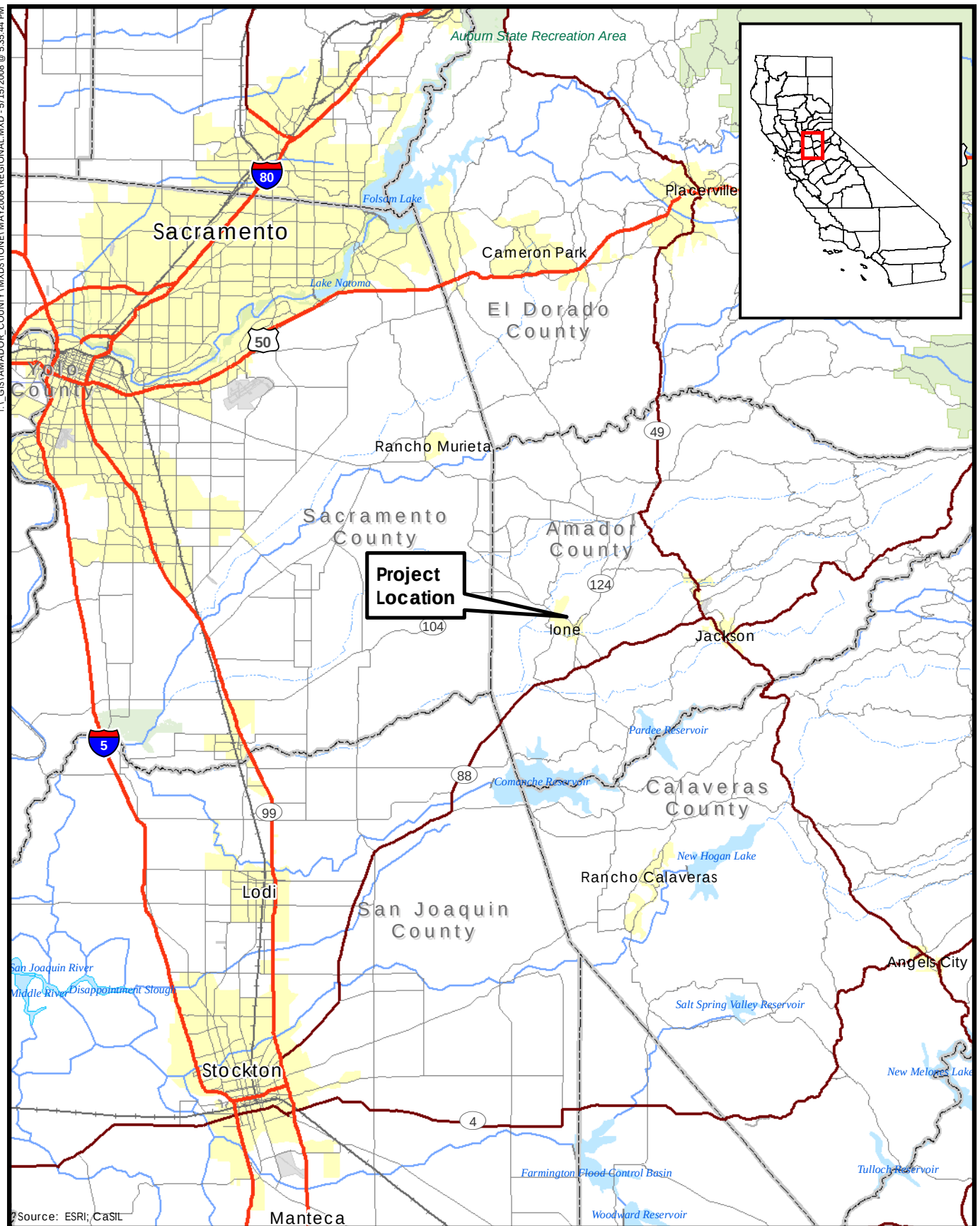


Figure 2
Planning Area Boundary

T:\GIS\AMADOR COUNTY\MXD\ONE\MAY2008\REGIONAL.MXD - 5/15/2008 @ 5:35:44 PM



Source: ESRI, CASIL



Figure 1
Regional Location



AMADOR WATER AGENCY

12800 Ridge Road
Sutter Creek CA 95685-9630
209.223.3018 209.257.5281 fax

**FAX**Date: Friday, February 20, 2009Number of pages including cover sheet: 3

**RE: Notice of Preparation Comment
Letter, Environmental Impact Report**

To: **Christopher Jordan, City Planner****City of Ione**

PO Box 398

Ione, CA 95640

Phone: 209-274-2412

Fax phone: 209-274-2830

CC:

From: **Linda Nafus**

For John Griffin

Phone: 209-257-5244

Fax phone: (209) 257-5295

REMARKS: ☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please comment

Please see attached letter from John Griffin.

Linda Nafus
Linda Nafus

A Public Agency

12800 RIDGE ROAD, SUTTER CREEK, CA 95685-9630

(209) 223-3018
FAX: (209) 257-5281

February 19, 2009

Christopher Jordan
City Planner
City of Ione
P.O. Box 398
Ione, CA 95640RE: Notice of Preparation Comment Letter
Environmental Impact Report
City of Ione General Plan Update

Dear Mr. Jordan:

Amador Water Agency ('AWA') appreciates the opportunity to review and comment on the Notice of Preparation ('NOP') for the Environmental Impact Report ('EIR') for the City of Ione General Plan Update ('General Plan'). Below are concepts to be considered while preparing the Draft EIR for the General Plan.

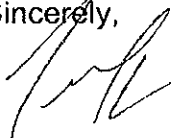
1. AWA fully supports the concept of wastewater recycling as discussed in the NOP for the Program and Project-Specific EIR for the City of Ione Wastewater Master Plan ('Master Plan'). The Master Plan NOP references the possible use of recycled water at nearby facilities, such as Howard Park and Unimin. Wastewater recycling is one of several key components of the overall AWA water management portfolio. Utilizing recycled water in lieu of treated water will significantly extend the water supplies of Amador County beyond 2030. The General Plan EIR should consider whether areas of potential growth identified by the City Council but not contemplated in the Master Plan NOP are suitable for irrigation with reclaimed water.
2. Typical average daily demand within the Amador Water System ('AWS') is 400 gallons per day ('gpd') and peak day demand within the AWS is 800 gpd.
3. In the long-term, expansion of the Tanner Water Treatment Plant ('WTP') is required to meet demands contemplated by the General Plan. The existing raw water pipeline will be converted to treated water and a small section of pipeline will be constructed. Once the new Tanner WTP is on-line, the Ione WTP will be decommissioned. In the short-term, AWA may consider interim improvements to

Christopher Jordan
February 19, 2009
Page 2 of 2

the lone WTP to provide additional capacity for the projects currently holding a tentative map (such as Castle Oaks and Wildflower).

Please feel free to contact me at 257-5293 with any questions, comments, or concerns regarding the contents of this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Griffin', written over the word 'Sincerely,'.

John Griffin, P.E.
Supervising Engineer

cc: Jim Abercrombie, General Manager, Amador Water Agency
Gene Mancebo, Manager of Engineering and Planning, Amador Water Agency
File



DEPARTMENT OF FISH AND GAME

<http://www.dfg.ca.gov>
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670
916-358-2900



February 17, 2009

Christopher Jordan, AICP, City Planner
City of Lone
1 East Main Street
P.O. Box 398
Lone, CA 95640

Dear Mr. Jordan:

The Department of Fish and Game (DFG) has reviewed the Notice of Preparation of a draft Environmental Impact Report (DEIR) for the City of Lone's General Plan Update (SCH #2009012038). The project consists of an update of the lone General Plan, an SOI amendment, and the annexation of land associated with the City's wastewater treatment plant. The project is located in lone, Amador County.

Wildlife habitat resources consist of urban and residential development set in a mixture of rolling oak woodlands, chaparral, and agricultural land. Significant natural resources of the project include habitat for sensitive species. Additionally, Mule Creek and Sutter Creek flow through the plan area.

We recommend that the DEIR discuss and provide adequate mitigation for the following concerns:

1. The project's impact upon fish and wildlife and their habitat.
2. The project's impact upon significant habitat such as wetlands including vernal pools and riparian habitat. The project should be designed so that impacts to wetlands are avoided. Mitigation should be provided for unavoidable impacts based upon the concept of no net loss of wetland habitat values or acreage.
3. The project's impact to special status species including species which are state and federal listed as threatened and endangered. California Natural Diversity Database files contain records for the following species within the General Plan area:

lone manzanita	(<i>Arctostaphylos myrtifolia</i>)
Parry's horkelia	(<i>Horkelia parryi</i>)
Irish hill buckwheat	(<i>Eriogonum apricum</i> var. <i>prostratum</i>)

Conserving California's Wildlife Since 1870

lone buckwheat	(<i>Eriogonum apricum</i> var. <i>apricum</i>)
Bisbee peak rush-rose	(<i>Helianthemum suffrutescens</i>)
California tiger salamander	(<i>Ambystoma californiense</i>)
northwestern pond turtle	(<i>Actinemys marmorata marmorata</i>)
California linderiella	(<i>Linderiella occidentalis</i>)
Valley elderberry long-horned beetle	(<i>Desmocerius californicus</i> <i>dimorphus</i>)

4. The project's growth inducing and cumulative impacts upon fish, wildlife, water quality and vegetative resources.
5. The DEIR should provide an analysis of specific alternatives which reduce impacts to fish, wildlife, water quality and vegetative resources.
6. The DEIR should contain an evaluation of the proposed projects consistency with the applicable land use plans, such as General Plans, Specific Plans, Watershed Master Plans, Habitat Conservation Plans, etc.

The DEIR should consider and analyze whether implementation of the proposed project will result in reasonably foreseeable potentially significant impacts subject to regulation by the DFG under section 1600 et seq. of the Fish and Game Code. Such impacts result whenever a proposed project involves work undertaken in or near a river, stream, or lake that flows at least intermittently through a bed or channel, including ephemeral streams and water courses. Impacts triggering regulation by the DFG under these provisions of the Fish and Game Code typically result from activities that:

- Divert, obstruct, or change the natural flow or the bed, channel or bank of any river, stream, or lake;
- Use material from a streambed; or
- Result in the disposal or deposition of debris, waste, or other material where it may pass into any river stream, or lake.

In the event implementation of the proposed project involves such activities, and those activities will result in reasonably foreseeable substantial adverse effects on fish or wildlife, a Lake or Streambed Alteration Agreement (LSAA) will be required by the DFG. Because issuance of a LSAA is subject to review under the California Environmental Quality Act (CEQA), the DEIR should analyze whether the potentially feasible mitigation measures will avoid or substantially reduce impacts requiring a LSAA from the DFG.

Mr. Jordan
February 17, 2009
Page Three

This project will have an impact to fish and/or wildlife habitat. Assessment of fees under Public Resources Code Section 21089 and as defined by Fish and Game Code Section 711.4 is necessary. Fees are payable by the project applicant upon filing of the Notice of Determination by the lead agency.

Pursuant to Public Resources Code Sections 21092 and 21092.2, the DFG requests written notification of proposed actions and pending decisions regarding this project. Written notifications should be directed to this office.

Thank you for the opportunity to review this project. If the DFG can be of further assistance, please contact Mr. Dan Gifford, Staff Environmental Scientist, telephone (209) 369-8851 or, Mr. Jeff Drongesen, Senior Environmental Scientist, telephone (916) 358-2919.

Sincerely,



Kent Smith
Habitat Conservation Program Manager

cc. Susan Jones
U.S. Fish and Wildlife Service
2800 Cottage Way, Room W2605
Sacramento, CA 92825-1888

Kent Smith
Jeff Drongesen
Dan Gifford
Department of Fish and Game
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

DEPARTMENT OF TRANSPORTATION

P.O. BOX 2048, STOCKTON, CA 95201
1976 E. DR. MARTIN LUTHER KING JR. BLVD. 95205
PHONE (209) 948-7112
FAX (209) 948-7164
TTY 711



*Flex your power!
Be energy efficient!*

February 4, 2009

**10-AMA-124/104-PM-Var
NOP City of Ione GPU
SCH # 2009012038 (DEIR)**

Christopher Jordan, AICP
City of Ione
1 East Main Street
P. O. Box 398
Ione, CA 95640

Dear Mr. Jordan:

Caltrans appreciates the opportunity to have reviewed the Notice of Preparation for the Draft Environmental Impact Report (DEIR) for the City of Ione's General Plan Update (GPU), to be prepared by the City of Ione. The study area for the GPU comprises approximately 31, 770 acres and includes the existing City limits, sphere of influence (SOI) and lands just beyond the SOI. The City of Ione is located at the junction of State Routes (SR) 124/104 in southwestern Amador County.

Caltrans will provide comments upon review of the Draft Environmental Impact Report, when it becomes available.

- We appreciate that the City continues to coordinate and consult with Caltrans to identify and address potential cumulative transportation impacts that may occur from this and other development projects near this geographical location. These efforts assist Caltrans with maintaining traffic safety standards for the traveling public on existing and future state transportation facilities in the City of Ione.

If you have any questions or would like to discuss this letter in more detail, please contact Kathleen McClafin at (209) 948-7647 (email: Kathleen_mcclafin@dot.ca.gov) or myself at (209) 948-7112.

Sincerely,

A handwritten signature in cursive script that reads "Kathleen McClafin for".

DANIEL H. BREWER, Chief
Office of Rural Planning and Administration

c: Scott Morgan, State Clearinghouse

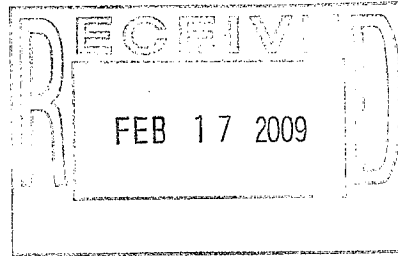
PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298



February 13, 2009

Christopher Jordan
City of Ione
1 East Main Street
P.O. Box 398
Ione, CA 95640



Re: Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR)
City of Ione General Plan Update/SCH# 2009012038

Dear Mr. Jordan:

As the state agency responsible for rail safety within California, the California Public Utilities Commission (CPUC or Commission) recommends that development projects proposed near rail corridors be planned with the safety of these corridors in mind. New developments and improvements to existing facilities may increase vehicular traffic volumes, not only on streets and at intersections, but also at at-grade highway-rail crossings. In addition, projects may increase pedestrian traffic at crossings, and elsewhere along rail corridor rights-of-way. Working with CPUC staff early in project planning will help project proponents, agency staff, and other reviewers to identify potential project impacts and appropriate mitigation measures, and thereby improve the safety of motorists, pedestrians, railroad personnel, and railroad passengers.

The Commission recommends that the City include consideration of potential project-related rail safety impacts and measures to reduce adverse impacts of the proposed project to the rail corridor located in the middle of this project. The project's traffic impact study (TIS) is the mechanism by which to address these concerns since it will be the basis for the analysis within the Transportation/Circulation section of the DEIR.

In general, the major types of impacts to consider are collisions between trains and vehicles, and between trains and pedestrians. Changes in land use should not be allowed that would permit housing adjacent to existing rail yards. Similarly, where a need for grade-separated crossings is identified, new development should not be placed adjacent to at-grade highway rail crossings, within the footprint of land needed for future grade-separation structures.

General categories of measures to reduce potential adverse impacts on rail safety include:

- Installation of grade separations at crossings, i.e., physically separating roads and railroad track by constructing overpasses or underpasses
- Improvements to warning devices at existing highway-rail crossings
- Installation of additional warning signage
- Improvements to traffic signaling at intersections adjacent to crossings, e.g., traffic preemption
- Installation of median separation to prevent vehicles from driving around railroad crossing gates

Christopher Jordan
City of Ione
SCH#2009012038
February 13, 2009
Page 2 of 2

- Where soundwalls, landscaping, buildings, etc. would be installed near crossings, maintaining the visibility of warning devices and approaching trains
- Prohibition of parking within 100 feet of crossings to improve the visibility of warning devices and approaching trains
- Installation of pedestrian-specific warning devices and channelization
- Installation of additional traffic lanes through the crossing to accommodate additional traffic
- Construction of pull-out lanes for buses and vehicles transporting hazardous materials
- Installation of vandal-resistant fencing or walls to limit the access of pedestrians onto the railroad right-of-way
- Elimination of driveways near crossings
- Increased enforcement of traffic laws at crossings
- Rail safety awareness programs to educate the public about the hazards of highway-rail grade crossings

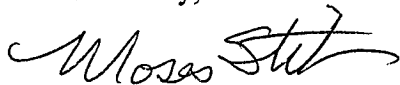
CPUC also encourages localities to set up mechanisms whereby new developments pay a fair share of their impact costs to fund the above measures if not already in an existing Fee program by the City or a Regional Fee program.

Commission approval is required to modify an existing highway-rail crossing or to construct a new crossing.

Please forward the revised Traffic impact Study (TIS) scope, so we may have an opportunity to review the proposed analysis which will make our review more efficient and expedient during the DEIR.

Thank you for your consideration of these comments and we look forward to working with the City on this project. If you have any questions in this matter, please contact me at (415) 713-0092 or email at ms2@cpuc.ca.gov.

Sincerely,



Moses Stites
Rail Corridor Safety Specialist
Consumer Protection and Safety Division
Rail Transit and Crossings Branch
515 L Street, Suite 1119
Sacramento, CA 95814

**DEPARTMENT OF FORESTRY AND FIRE PROTECTION**

11600 Hwy 49
Sutter Creek, CA 95685
209.267.1889
gianni.muschetto@fire.ca.gov

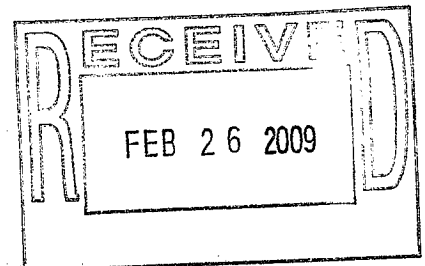


To: Christopher Jordan
City of Ione
1 East Main Street
P.O. Box 398
Ione, CA 95640

From: Gianni Muschetto – Cal Fire

Subject: Ione General Plan Update
SCH# 2009012038
Notice of Preparation

Date: February 17, 2009



Mr. Christopher Jordan,

CAL FIRE has reviewed your Notice of Preparation for the proposed General Plan for the City of Ione, SOI amendment, Planning Area, and annexation of land.

CAL FIRE has the following recommendation to the updated Ione General Plan:

- 1) For the City of Ione to adopt the Ione Very High Fire Hazard Severity Zone map. Areas that fall within these zones should be referenced in the General Plan. Development in these areas are required to meet the WUI Building Codes, Defensible Space Standards, and any other applicable law. CAL FIRE has transmitted the map to the City of Ione but it has not been adopted. As per Government Code Sections 51178.5 and 51179 the city is responsible for designating, by ordinance, the Very High Fire Hazard Severity Zones in its jurisdiction. CAL FIRE consulted Ione's City Manager and Fire Chief during development of the map.

CAL FIRE would also like to inform you of the following:

- 1) The areas identified within the Planning Area Boundary that are outside of the city limit boundaries are classified as State Responsibility Areas (SRA) per Public Resources Codes 4125 – 4128. Cal Fire has the responsibility for preventing and suppressing fires in these areas.

Development into these areas prior to annexation into the City is required to meet the State Fire Safe Regulations (PRC 4290), Defensible Space Standards (PRC 4291), WUI Building Codes, and any other applicable laws.

CONSERVATION IS WISE-KEEP CALIFORNIA GREEN AND GOLDEN

If these areas are annexed into the City prior to development, the City of Ione would then assume the fiscal responsibility for preventing and suppressing fires in those areas, which includes wildland fires.

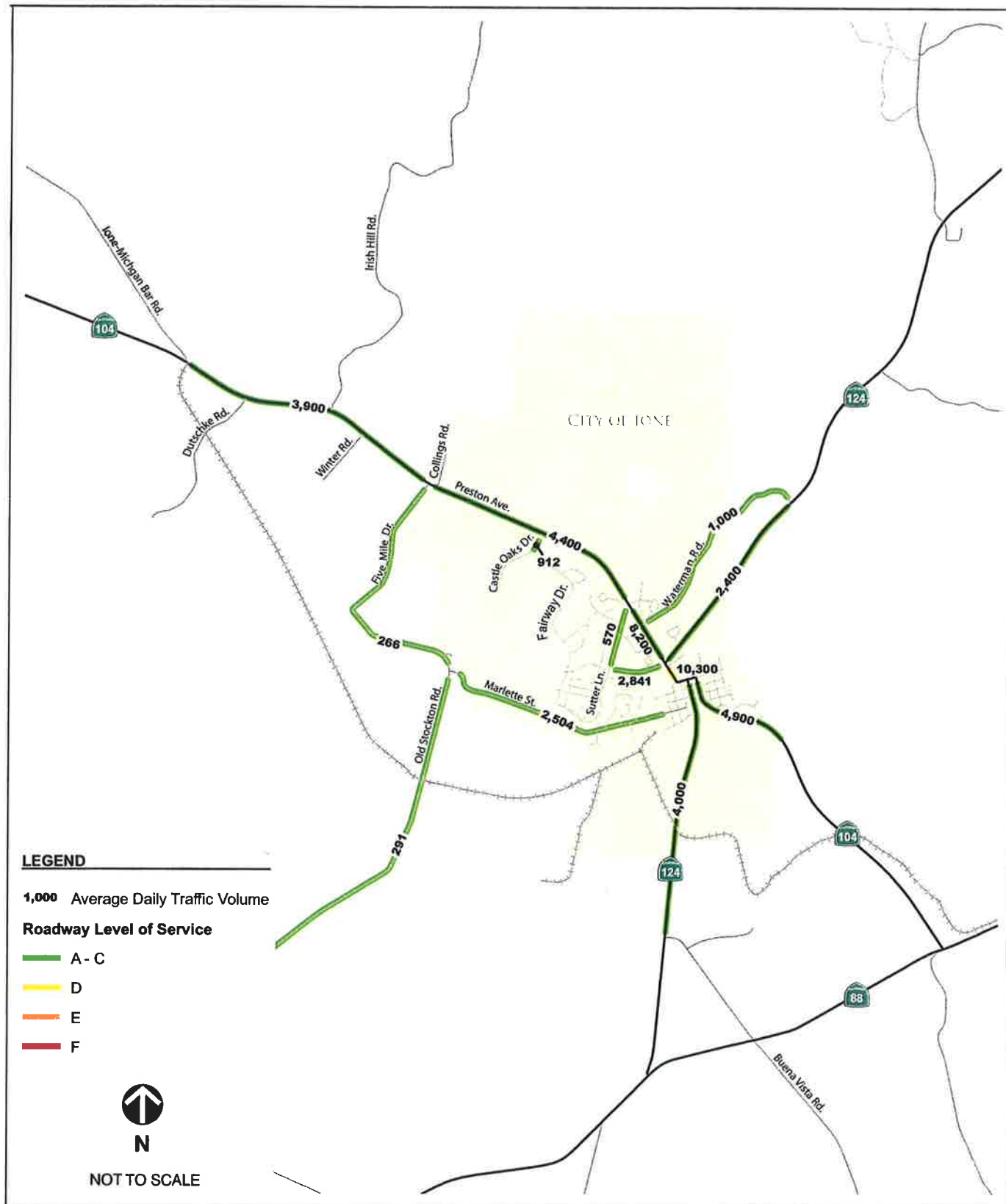
- 2) When new areas are annexed into the City and CAL FIRE is advised, the Ione Very High Fire Hazard Severity Zone map will be updated and provided to the City.
- 3) The Fire Hazard Severity Zone map for the Planning Area outside of the City limits is approved and on file with the County of Amador.

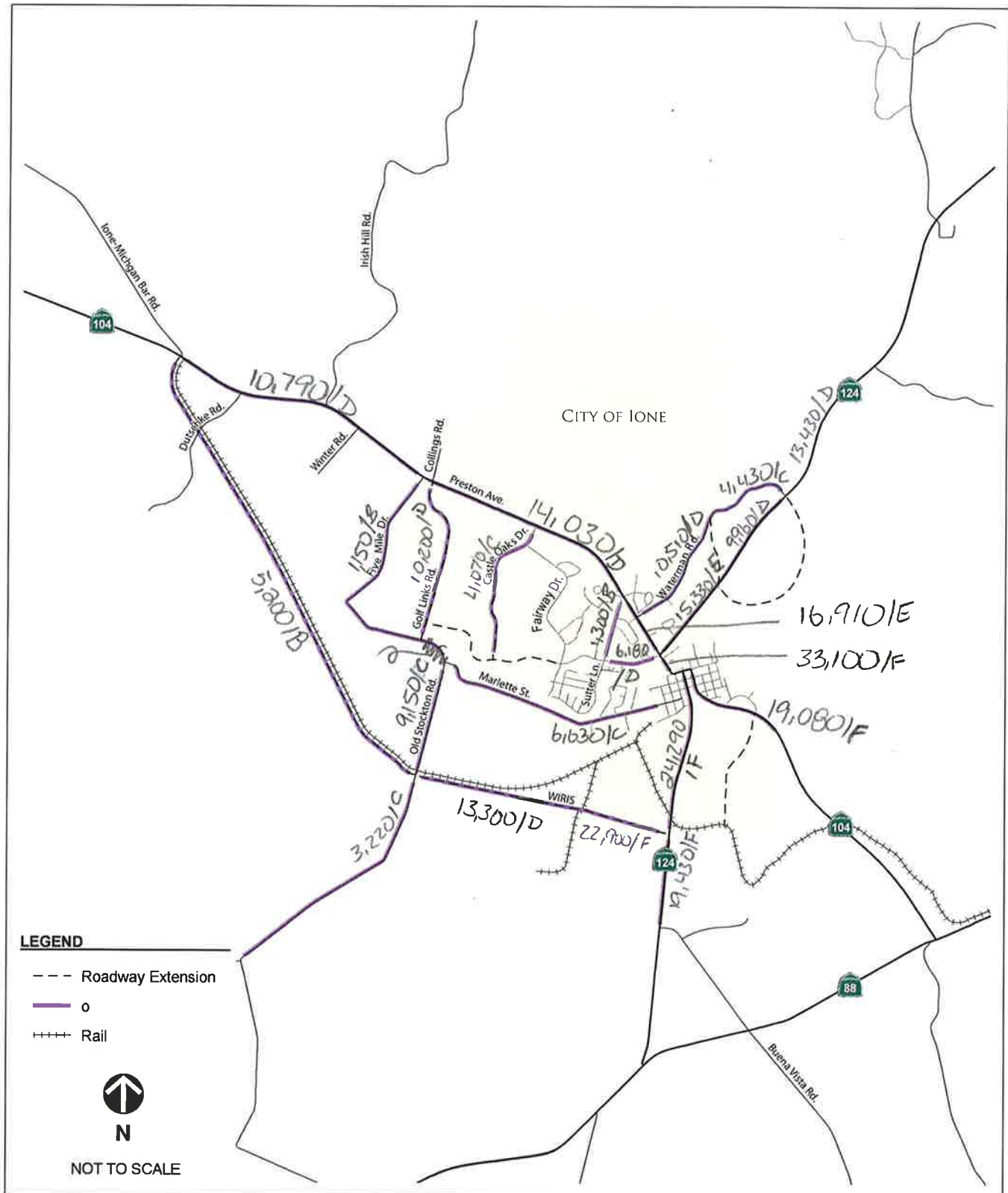
Sincerely,



Gianni Muschetto
Fire Captain Specialist
California Department of Forestry and Fire Protection
Amador-El Dorado Unit
209.267.1889

APPENDIX 4.4 TRAFFIC AND CIRCULATION





ID	LENGTH	AB_FLOW	BA_FLOW	TOT_FLOW	AB_SPEED1	BA_SPEED1	AB Speed Cat	BA Speed Cat		
1	4.78	905.8372	905.8372	1811.6744	54.8453	54.8453	11	11	0	1
2	2.62	3488.4961	3488.4961	6976.9922	52.4877	52.4877	11	11	5	2
3	4.90	2429.1936	2429.1936	4858.3872	53.7958	53.7958	11	11	10	3
4	5.63	0.0000	0.0000	0.0000	25.0000	25.0000	6	6	15	4
5	2.62	192.1296	192.1296	384.2592	24.9794	24.9794	5	5	20	5
6	2.73	5661.1836	5661.1836	11322.3672	48.5734	48.5734	10	10	25	6
7	0.76	192.1296	192.1296	384.2592	24.9794	24.9794	5	5	30	7
8	1.35	192.1296	192.1296	384.2592	25.0000	25.0000	6	6	35	8
9	2.20	0.0000	0.0000	0.0000	25.0000	25.0000	6	6	40	9
10	1.90	40.6403	40.6403	81.2806	25.0000	25.0000	6	6	45	10
11	2.98	0.0000	0.0000	0.0000	25.0000	25.0000	6	6	50	11
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13	3.04	208.5945	208.5945	417.1890	25.0000	25.0000	6	6	60	13
14	0.72	208.5945	208.5945	417.1890	24.9755	24.9755	5	5	65	14
15	1.24	57.0002	57.0002	114.0004	24.9984	24.9984	5	5	70	15
16	0.02	5661.1836	5661.1836	11322.3672	48.5734	11.8573	10	3	75	16
17	0.04	40.6403	40.6403	81.2806	24.9992	24.9992	5	5		
18	0.78	0.0000	0.0000	0.0000	25.0000	25.0000	6	6		
19	0.21	57.0002	57.0002	114.0004	24.9984	24.9984	5	5		
20	0.73	5701.8237	5701.8237	11403.6475	48.4876	48.4876	10	10		
21	1.89	5750.4336	5750.4336	11500.8672	48.3846	48.3846	10	10		
22	2.09	40.6403	40.6403	81.2806	24.9992	24.9992	5	5		
23	2.77	5750.4336	5750.4336	11500.8672	24.9700	24.9700	5	5		
24	2.86	288.0370	288.0370	576.0739	24.9518	24.9518	5	5		
25	1.89	288.0370	288.0370	576.0739	24.9999	24.9999	5	5		
26	7.69	11931.0957	11931.0957	23862.1914	33.6772	33.6772	7	7		
27	0.73	1656.9625	1656.9625	3313.9250	34.0652	34.0652	7	7		
28	11.73	10492.4385	10492.4385	20984.8770	37.0766	37.0766	8	8		
29	1.13	600.8525	600.8525	1201.7051	24.7761	24.7761	5	5		
30	1.29	1468.4822	1468.4822	2936.9644	24.9983	24.9983	5	5		
31	2.80	1468.4822	1468.4822	2936.9644	54.5755	54.5755	11	11		
32	1.84	428.2075	428.2075	856.4150	24.9999	24.9999	5	5		
33	0.75	428.2075	428.2075	856.4150	34.9586	34.9586	7	7		
34	15.45	1598.8081	1598.8081	3197.6162	54.4932	54.4932	11	11		
35	6.58	600.8525	600.8525	1201.7051	24.9997	24.9997	5	5		
36	3.27	233.5679	233.5679	467.1359	25.0000	25.0000	6	6		
37	11.37	9891.5859	9891.5859	19783.1719	38.5395	38.5395	8	8		
38	2.56	4671.6021	4671.6021	9343.2041	24.9806	24.9806	5	5		
39	2.59	4671.6021	4671.6021	9343.2041	40.5752	40.5752	9	9		
40	7.34	233.5679	233.5679	467.1359	24.9690	24.9690	5	5		
41	2.49	10125.1533	10125.1533	20250.3066	37.9687	37.9687	8	8		
42	5.83	7881.5991	7881.5991	15763.1982	43.4756	43.4756	9	9		
43	1.64	1300.8188	1300.8188	2601.6377	24.9987	24.9987	5	5		
44	3.87	1300.8188	1300.8188	2601.6377	23.9060	23.9060	5	5		
45	2.83	3488.4961	3488.4961	6976.9922	52.4877	52.4877	11	11		
46	0.36	3456.4263	3456.4263	6912.8525	52.5338	52.5338	11	11		
47	0.55	3616.4861	3616.4861	7232.9722	52.2999	52.2999	11	11		
48	0.37	5812.7778	5812.7778	11625.5557	48.2516	48.2516	10	10		
49	0.34	5812.7778	5812.7778	11625.5557	48.2516	48.2516	10	10		
50	0.32	160.0598	160.0598	320.1196	24.9860	24.9860	5	5		

51	0.21	32.0698	32.0698	64.1396	24.9995	24.9995	5	5
52	1.92	151.5943	151.5943	303.1886	24.9875	24.9875	5	5
53	3.45	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
54	4.91	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
55	13.16	1598.8081	1598.8081	3197.6162	54.4932	54.4932	11	11
56	1.31	2855.8888	2913.6152	5769.5041	32.9028	32.8184	7	7
57	0.84	767.1756	767.1756	1534.3512	24.9996	24.9996	5	5
667	0.14	5801.6979	5558.8081	11360.5060	21.0638	21.8098	5	5
59	0.68	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
60	1.75	2542.3197	2600.0461	5142.3657	33.3357	33.2593	7	7
61	0.19	3566.2629	3566.2629	7132.5259	52.3743	52.3743	11	11
62	0.10	28.9082	28.9082	57.8164	24.9996	24.9996	5	5
63	0.12	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
64	3.27	28.9082	28.9082	57.8164	24.9999	24.9999	5	5
65	0.73	392.7776	392.7776	785.5553	34.9191	34.9191	7	7
66	1.00	392.7776	392.7776	785.5553	24.9999	24.9999	5	5
67	3.21	4368.9980	4368.9980	8737.9961	38.9391	38.9391	8	8
68	1.11	4368.9980	4368.9980	8737.9961	24.9831	24.9831	5	5
69	0.22	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
70	0.88	4705.0177	4705.0178	9410.0355	36.0134	36.0134	8	8
71	0.11	347.0661	348.1740	695.2401	24.9288	24.9284	5	5
72	0.34	347.0661	348.1740	695.2401	24.9999	24.9999	5	5
73	0.94	1475.0938	1475.0938	2950.1875	23.5940	23.5940	5	5
74	0.41	576.5646	575.4567	1152.0213	24.9998	24.9998	5	5
75	0.41	497.0378	497.0377	994.0755	24.9595	24.9595	5	5
76	0.20	11274.1913	11305.3614	22579.5527	35.2077	35.1342	8	8
77	0.54	700.2634	701.3712	1401.6346	24.9170	24.9168	5	5
78	0.08	10575.2318	10606.4016	21181.6335	36.8766	36.8014	8	8
79	0.38	1200.2381	1200.2381	2400.4762	34.5187	34.5187	7	7
80	0.94	5202.0557	5202.0557	10404.1113	35.1900	35.1900	8	8
81	1.54	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
82	1.46	10089.4580	10119.5199	20208.9779	38.0557	37.9824	8	8
83	1.07	1200.2381	1200.2381	2400.4762	34.1734	34.1734	7	7
84	1.45	5202.0557	5202.0557	10404.1113	24.9757	24.9757	5	5
85	1.11	5202.0557	5202.0557	10404.1113	35.1900	35.1900	8	8
86	1.10	1198.9483	1198.9483	2397.8965	24.9989	24.9989	5	5
87	0.81	10089.4580	10119.5199	20208.9779	38.0557	37.9824	8	8
88	0.70	289.9265	290.4968	580.4233	24.9999	24.9999	5	5
89	2.07	40.1904	40.3845	80.5750	24.9997	24.9997	5	5
90	3.07	1961.8169	1874.0285	3835.8453	34.0146	34.1026	7	7
91	0.74	199.2369	199.2369	398.4738	25.0000	25.0000	6	6
92	0.65	199.2369	199.2369	398.4738	24.9778	24.9778	5	5
93	0.65	505.6650	491.4472	997.1122	24.9581	24.9605	5	5
94	0.25	505.6650	491.4472	997.1122	34.9413	34.9447	7	7
95	0.44	237.4880	237.4880	474.9759	25.0000	25.0000	6	6
96	0.76	214.0484	214.0484	428.0968	25.0000	25.0000	6	6
97	0.27	214.0484	214.0484	428.0968	34.9774	34.9774	7	7
98	0.23	16181.8797	16211.9419	32393.8216	24.9918	24.9387	5	5
99	1.73	325.2803	311.0625	636.3428	34.9767	34.9788	7	7
100	0.82	129.8419	130.4122	260.2541	25.0000	25.0000	6	6
101	0.63	0.0000	0.0000	0.0000	25.0000	25.0000	6	6

102	0.88	158.1395	157.5872	315.7268	24.9951	24.9951	5	5
103	1.13	0.0000	0.0000	0.0000	30.0000	30.0000	7	7
104	2.17	2698.6030	2771.0996	5469.7026	33.1254	33.0242	7	7
105	0.18	209.0153	194.2451	403.2604	24.9911	24.9924	5	5
106	0.36	325.2803	311.0625	636.3428	24.9834	24.9849	5	5
107	3.07	209.0153	194.2451	403.2604	24.9911	24.9924	5	5
108	0.55	492.0196	492.0196	984.0392	34.8704	34.8704	7	7
109	0.77	16594.4034	16624.4654	33218.8688	24.2729	24.2214	5	5
110	0.77	492.0196	492.0196	984.0392	24.9998	24.9998	5	5
111	1.24	5053.1918	5052.0838	10105.2756	35.4421	35.4440	8	8
112	0.28	347.0661	348.1740	695.2401	24.9288	24.9284	5	5
113	0.19	347.0661	348.1740	695.2401	24.9288	24.9284	5	5
114	0.47	4705.0177	4705.0178	9410.0355	36.0134	36.0134	8	8
115	0.14	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
116	0.28	347.0661	348.1740	695.2401	24.9288	24.9284	5	5
117	2.24	11541.2118	11572.3818	23113.5937	34.5807	34.5079	7	7
118	0.67	1475.0938	1475.0938	2950.1875	24.9983	24.9983	5	5
119	5.31	1949.7959	1862.0075	3811.8034	34.0269	34.1144	7	7
120	1.96	11916.1133	11916.1133	23832.2266	24.8618	24.8618	5	5
121	1.43	1587.7467	1587.7467	3175.4934	24.9980	24.9980	5	5
122	1.58	1587.7467	1587.7467	3175.4934	44.1793	44.1793	9	9
123	1.44	1891.6868	1972.4353	3864.1221	43.4260	43.2871	9	9
124	3.46	2622.3874	2541.6389	5164.0263	42.7234	42.8613	9	9
125	0.49	3484.6008	3484.6008	6969.2017	24.9895	24.9895	5	5
126	0.94	1471.5955	1471.5955	2943.1909	24.9983	24.9983	5	5
127	2.83	2028.0455	2108.7940	4136.8394	43.1883	43.0402	9	9
128	2.13	1471.5955	1471.5955	2943.1909	49.2204	49.2204	10	10
129	1.17	1558.5412	1639.2897	3197.8309	49.1223	49.0260	10	10
130	1.89	3208.5034	3208.5034	6417.0068	24.9912	24.9912	5	5
131	3.51	11916.1133	11916.1133	23832.2266	33.7116	33.7116	7	7
132	0.78	86.3199	86.3199	172.6398	25.0000	25.0000	6	6
133	2.25	86.3199	86.3199	172.6398	24.9962	24.9962	5	5
134	1.37	2741.0171	2741.0171	5482.0342	42.5140	42.5140	9	9
135	1.89	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
136	1.05	190.7065	190.7065	381.4130	25.0000	25.0000	6	6
137	2.39	3208.5034	3208.5034	6417.0068	47.6397	47.6397	10	10
138	0.55	3310.7542	3304.8099	6615.5641	41.4008	41.4133	9	9
139	0.95	190.7065	190.7065	381.4130	24.9797	24.9797	5	5
140	0.40	4216.7412	4228.8031	8445.5443	45.9582	45.9359	10	10
141	1.92	2741.0171	2741.0171	5482.0342	24.9937	24.9937	5	5
142	1.46	108.6971	108.6971	217.3942	25.0000	25.0000	6	6
143	1.60	630.4840	624.5398	1255.0238	29.8134	29.8171	6	6
144	0.25	206.5536	206.5536	413.1072	25.0000	25.0000	6	6
145	2.51	556.8307	550.8865	1107.7172	29.8561	29.8593	6	6
146	1.78	108.6971	108.6971	217.3942	24.9938	24.9938	5	5
147	2.14	10980.0029	10980.0029	21960.0059	24.8835	24.8835	5	5
148	3.73	10980.0029	10980.0029	21960.0059	35.9056	35.9056	8	8
149	1.93	922.4076	922.4046	1844.8122	44.6420	44.6420	9	9
150	1.79	1416.7255	1411.8431	2828.5686	39.2253	39.2308	8	8
151	2.01	9683.7915	9688.6709	19372.4625	39.0491	39.0371	8	8
152	0.11	12135.8407	12154.1286	24289.9693	13.8147	13.7952	3	3

699	0.13	637.2830	637.0898	1274.3728	24.9997	24.9997	5	5
154	0.06	16909.5362	16891.7699	33801.3061	9.5241	9.5371	2	2
767	0.18	6984.7140	6985.2355	13969.9495	19.9396	19.9389	4	4
156	0.10	391.4232	391.4232	782.8464	24.9999	24.9999	5	5
157	0.06	1646.5049	1646.5049	3293.0098	24.9978	24.9978	5	5
158	0.18	883.4930	883.4930	1766.9859	24.9994	24.9994	5	5
651	0.52	5951.2558	5967.8709	11919.1268	19.2623	19.2364	4	4
709	0.15	452.3845	452.4284	904.8129	24.9552	24.9552	5	5
161	0.16	742.4614	742.4614	1484.9227	24.9996	24.9996	5	5
162	0.11	278.2724	278.2724	556.5448	24.9999	24.9999	5	5
163	0.03	9603.8060	9626.6937	19230.4998	16.7188	16.6911	4	4
635	0.13	6906.5889	6906.5889	13813.1777	24.9559	24.9559	5	5
165	0.19	7354.3742	7396.5250	14750.8992	35.0791	34.9859	8	7
166	0.11	120.4014	120.4014	240.8027	25.0000	25.0000	6	6
647	0.45	1516.7644	1516.7644	3033.5288	28.8588	28.8588	6	6
749	0.05	10253.7227	10254.2444	20507.9672	15.9404	15.9398	4	4
685	0.48	0.0000	0.0000	0.0000	1.0000	1.0000	1	1
695	0.12	5269.2646	5269.2646	10538.5293	24.9750	24.9750	5	5
652	0.20	5832.7093	5836.8273	11669.5366	12.0831	12.0739	3	3
172	1.41	188.7891	189.3977	378.1868	25.0000	25.0000	6	6
173	1.39	47.4198	48.0284	95.4482	25.0000	25.0000	6	6
174	0.86	6207.8569	6249.5294	12457.3863	33.3855	33.3076	7	7
175	1.95	848.0484	738.4176	1586.4660	44.6995	44.7749	9	9
176	2.74	495.1353	466.2581	961.3933	49.9197	49.9292	10	10
177	0.31	122.9607	122.9607	245.9215	25.0000	25.0000	6	6
178	1.10	1150.0112	1040.3805	2190.3917	44.4337	44.5400	9	9
693	0.09	2054.3867	2054.3867	4108.7734	24.9965	24.9965	5	5
180	2.23	347.8455	347.8455	695.6909	24.9999	24.9999	5	5
181	2.59	12901.1137	13031.4151	25932.5288	31.4988	31.2143	7	7
182	1.48	1319.8682	1429.4939	2749.3621	39.3306	39.2109	8	8
183	0.40	243.2885	243.2885	486.5770	25.0000	25.0000	6	6
184	0.28	5002.6463	4869.3824	9872.0287	27.3572	27.6905	6	6
185	2.67	1516.7644	1516.7644	3033.5288	24.9982	24.9982	5	5
186	2.76	12907.8030	13038.1044	25945.9073	31.4841	31.1997	7	7
187	0.23	1522.8417	1445.8105	2968.6522	34.2136	34.2932	7	7
188	0.57	9453.1014	10075.0961	19528.1976	30.4230	29.0745	7	6
189	0.68	7611.1016	7119.4081	14730.5097	34.5106	35.5964	7	8
750	0.36	1504.5277	1503.9190	3008.4467	29.3425	29.3430	6	6
191	0.30	5558.8081	5801.6979	11360.5060	21.8098	21.0638	5	5
768	0.05	1396.1437	1396.1437	2792.2874	24.9985	24.9985	5	5
193	0.26	9838.9573	10583.2804	20422.2377	29.5831	27.9959	6	6
194	0.32	4905.0333	5029.2824	9934.3157	25.0319	24.8103	6	5
195	0.36	358.7180	358.1017	716.8197	24.9999	24.9999	5	5
196	0.24	1041.9679	1041.9679	2083.9358	24.9992	24.9992	5	5
197	0.36	7466.9997	7768.7766	15235.7763	34.8300	34.1602	7	7
198	0.09	4605.1331	4162.5870	8767.7201	12.1479	12.6061	3	3
787	0.13	1362.2646	1362.2646	2724.5293	24.9985	24.9985	5	5
200	0.11	18736.6824	19146.3449	37883.0273	30.6088	30.1606	7	7
201	0.19	1259.2676	1149.0281	2408.2957	23.9751	24.1484	5	5
644	0.12	2674.5828	2674.5828	5349.1655	24.9940	24.9940	5	5
203	0.26	14550.3609	14698.2804	29248.6412	35.2538	35.0906	8	8

204	0.19	2884.1371	3064.9400	5949.0771	20.1029	19.5805	5	4
205	0.09	960.6945	850.4550	1811.1495	24.4089	24.5400	5	5
206	0.21	960.6945	850.4550	1811.1495	24.9993	24.9995	5	5
207	0.22	1149.0281	1259.2676	2408.2957	24.9990	24.9988	5	5
208	0.41	669.8512	660.8364	1330.6876	24.7193	24.7271	5	5
209	0.20	744.0370	744.6533	1488.6903	24.9996	24.9996	5	5
210	0.46	1391.7580	1382.1269	2773.8850	23.7476	23.7648	5	5
757	0.12	1678.9665	1678.9665	3357.9329	24.3140	24.3140	5	5
212	0.18	20366.3653	20212.5078	40578.8732	28.8432	29.0077	6	6
213	0.05	19218.4513	19054.9632	38273.4144	30.0820	30.2604	7	7
214	0.16	2863.2964	2863.2964	5726.5928	24.9930	24.9930	5	5
215	1.13	2110.8534	2181.4168	4292.2702	22.1931	22.0163	5	5
216	0.07	6247.9612	6290.2423	12538.2035	33.3105	33.2313	7	7
217	0.92	4698.7647	4808.8393	9507.6040	36.0234	35.8459	8	8
218	0.02	1354.3317	1376.3226	2730.6543	23.8139	23.7751	5	5
219	0.97	1354.3317	1376.3226	2730.6543	34.3822	34.3614	7	7
220	1.45	3344.4330	3432.5166	6776.9496	42.6923	42.5698	9	9
221	2.07	1799.0194	1731.2260	3530.2454	33.8945	33.9777	7	7
688	0.17	13379.5642	12729.0505	26108.6147	22.5703	23.7465	5	5
223	1.07	637.7067	637.7067	1275.4133	24.9997	24.9997	5	5
224	1.47	140.0352	140.0352	280.0703	25.0000	25.0000	6	6
225	3.02	1517.6762	1533.3374	3051.0136	29.3306	29.3164	6	6
226	1.25	570.1162	564.1721	1134.2883	39.8835	39.8861	8	8
227	1.14	1999.3313	2020.5621	4019.8934	28.8264	28.8012	6	6
228	0.53	1559.5368	1574.8234	3134.3603	39.0563	39.0372	8	8
229	1.07	9163.6211	9184.8519	18348.4730	40.3295	40.2772	9	9
230	0.43	202.2295	202.2295	404.4590	25.0000	25.0000	6	6
231	1.23	116.3564	115.9818	232.3382	39.9958	39.9959	8	8
232	0.80	202.2295	202.2295	404.4590	24.9771	24.9771	5	5
233	0.07	8312.8117	8333.1003	16645.9119	42.4236	42.3738	9	9
234	0.85	960.1984	961.1405	1921.3389	34.6972	34.6966	7	7
235	0.87	8312.8117	8333.1003	16645.9119	42.4236	42.3738	9	9
236	0.64	118.5625	118.5625	237.1250	25.0000	25.0000	6	6
756	0.66	1681.4017	1681.9135	3363.3152	34.0368	34.0362	7	7
238	1.34	246.2013	245.8266	492.0279	39.9800	39.9800	8	8
239	0.25	13269.1491	13291.6439	26560.7929	30.7005	30.6523	7	7
240	0.65	8367.3147	8387.6033	16754.9180	42.2899	42.2402	9	9
241	2.23	4904.1036	4901.8975	9806.0012	37.5503	37.5562	8	8
242	2.22	27.9025	11.2409	39.1434	25.0000	25.0000	6	6
243	2.22	45.0806	28.4191	73.4998	25.0000	25.0000	6	6
244	1.32	5305.8975	5305.8975	10611.7949	24.9746	24.9746	5	5
245	0.71	925.5058	926.4479	1851.9537	34.7196	34.7190	7	7
246	3.28	5305.8975	5305.8975	10611.7949	36.4648	36.4648	8	8
247	1.46	1187.6219	1186.3578	2373.9798	39.4619	39.4631	8	8
248	3.09	1354.3317	1376.3226	2730.6543	34.3822	34.3614	7	7
249	3.56	3344.4330	3432.5166	6776.9496	42.6923	42.5698	9	9
250	0.84	13488.4791	13511.3490	26999.8280	30.2327	30.1842	7	7
251	0.03	1360.8791	1382.8700	2743.7491	34.3761	34.3551	7	7
252	0.22	1360.8791	1382.8700	2743.7491	24.5543	24.5394	5	5
253	1.25	47.3003	47.3003	94.6005	25.0000	25.0000	6	6
254	0.59	12169.1413	12170.0198	24339.1611	33.1331	33.1311	7	7

255	2.57	651.8304	651.8304	1303.6608	24.7348	24.7348	5	5
639	0.06	4250.0035	4260.9102	8510.9137	24.9841	24.9840	5	5
257	0.97	17269.4944	17240.3681	34509.8625	16.6764	16.7136	4	4
258	0.84	12820.8401	12821.7189	25642.5590	31.6750	31.6731	7	7
259	0.29	15971.9934	15884.7881	31856.7815	25.3661	25.5233	6	6
260	1.22	19990.0859	19990.9603	39981.0462	13.5983	13.5974	3	3
261	0.45	17269.4944	17240.3681	34509.8625	16.6764	16.7136	4	4
262	0.40	11106.1322	11019.8021	22125.9343	29.9023	30.0990	6	7
263	0.57	1150.4078	1150.4078	2300.8157	24.9990	24.9990	5	5
264	1.56	10480.6338	10394.3035	20874.9372	34.4811	34.7041	7	7
265	0.50	711.7492	711.7492	1423.4983	24.6816	24.6816	5	5
266	1.03	1363.5796	1363.5796	2727.1592	24.9985	24.9985	5	5
267	1.56	1477.9556	1476.6915	2954.6472	39.1548	39.1563	8	8
268	1.12	924.2404	924.2404	1848.4807	24.9994	24.9994	5	5
269	1.48	2041.8173	2040.5533	4082.3706	38.3675	38.3695	8	8
270	0.68	924.2404	924.2404	1848.4807	24.4541	24.4541	5	5
663	0.03	4852.9152	5043.6849	9896.6001	14.4799	13.9836	3	3
272	0.10	1890.8000	1890.8000	3781.6001	24.9971	24.9971	5	5
273	0.13	2117.6853	2117.6853	4235.3706	24.9963	24.9963	5	5
655	0.21	13629.8777	13365.4605	26995.3382	22.1324	22.5952	5	5
640	0.17	44.6347	33.7280	78.3627	25.0000	25.0000	6	6
656	0.05	15904.2643	16079.5051	31983.7694	33.7520	33.5568	7	7
662	0.10	6072.6930	6263.4628	12336.1558	11.5555	11.1530	3	3
278	0.66	3595.1711	3595.1711	7190.3423	52.3316	52.3316	11	11
279	1.26	3595.1711	3595.1711	7190.3423	24.9888	24.9888	5	5
280	0.13	169.4245	169.4245	338.8491	25.0000	25.0000	6	6
281	0.35	2534.7731	2535.1087	5069.8818	23.8182	23.8179	5	5
282	0.10	643.5501	643.1968	1286.7468	24.9305	24.9306	5	5
283	0.06	216.6350	216.6350	433.2700	24.9929	24.9929	5	5
284	0.34	1176.8439	1176.3061	2353.1500	24.9989	24.9989	5	5
285	0.46	5948.3872	6022.4615	11970.8487	38.0990	37.9458	8	8
286	0.18	721.6539	529.9358	1251.5897	24.9996	24.9998	5	5
287	0.19	238.7742	430.4923	669.2664	25.0000	24.9999	6	5
288	0.68	816.9221	795.0731	1611.9953	34.8397	34.8485	7	7
289	0.36	681.0387	681.0387	1362.0774	24.9997	24.9997	5	5
290	0.03	773.5763	751.7273	1525.3036	24.8978	24.9038	5	5
291	0.55	409.5780	409.5780	819.1559	24.9999	24.9999	5	5
292	1.85	216.5928	202.5248	419.1176	34.9866	34.9884	7	7
293	0.20	582.7569	564.4808	1147.2376	39.9096	39.9155	8	8
294	1.58	8708.0294	8366.1889	17074.2183	33.9156	34.6031	7	7
295	1.17	430.9363	430.7757	861.7120	24.9999	24.9999	5	5
296	0.26	5776.3102	6042.1025	11818.4127	38.4516	37.9050	8	8
297	3.96	270.3621	270.3797	540.7418	29.9817	29.9817	6	6
298	0.66	3889.8104	3706.1771	7595.9875	24.9868	24.9880	5	5
299	1.40	318.4924	318.3318	636.8241	24.9999	24.9999	5	5
300	1.36	2804.7403	2602.8308	5407.5711	37.6873	38.0064	8	8
301	1.22	8277.0932	7935.4132	16212.5064	34.7818	35.4640	7	8
302	0.70	2819.2489	2617.5002	5436.7490	37.6636	37.9839	8	8
303	1.41	502.2233	502.2233	1004.4467	24.9998	24.9998	5	5
304	0.89	10532.0922	10392.1610	20924.2532	28.1034	28.3988	6	6
305	0.62	606.9783	606.9783	1213.9567	24.9997	24.9997	5	5

306	0.14	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
307	0.61	3504.9336	3500.9473	7005.8809	42.4670	42.4727	9	9
308	0.18	462.3347	462.3347	924.6693	24.9999	24.9999	5	5
309	0.17	6275.5757	6301.6924	12577.2681	37.4161	37.3610	8	8
310	0.21	7571.5660	7597.6827	15169.2486	34.5983	34.5404	7	7
311	0.07	1333.9104	1333.9104	2667.8207	23.8495	23.8495	5	5
312	1.34	7754.2753	7780.3921	15534.6674	34.1925	34.1344	7	7
313	0.05	7711.1767	7737.2935	15448.4702	34.2883	34.2303	7	7
314	0.01	365.8577	365.8577	731.7154	34.9598	34.9598	7	7
315	0.15	338.7177	338.7177	677.4355	24.9999	24.9999	5	5
316	0.91	27.8284	27.8284	55.6567	34.9998	34.9998	7	7
317	0.50	2793.1173	2823.2204	5616.3377	23.1020	23.0621	5	5
318	0.13	570.0687	570.0687	1140.1374	24.9998	24.9998	5	5
319	0.15	1333.9104	1333.9104	2667.8207	24.9986	24.9986	5	5
320	1.22	2745.4434	2775.5465	5520.9899	23.1644	23.1251	5	5
321	0.22	832.0790	832.0790	1664.1581	24.9995	24.9995	5	5
322	0.12	81.4482	81.4482	162.8965	25.0000	25.0000	6	6
323	1.32	2750.6178	2720.6172	5471.2350	23.1577	23.1966	5	5
324	1.09	405.0564	405.1589	810.2153	24.9017	24.9016	5	5
325	1.42	430.0508	430.0508	860.1016	24.9999	24.9999	5	5
326	0.87	61.4538	61.4538	122.9075	34.9990	34.9990	7	7
327	0.97	81.4482	81.4482	162.8965	24.9966	24.9966	5	5
328	1.77	37.8134	37.8134	75.6267	25.0000	25.0000	6	6
329	0.34	10907.4086	10821.0784	21728.4871	27.3207	27.4995	6	6
330	0.14	1231.7775	1231.7775	2463.5549	24.9988	24.9988	5	5
331	0.58	3229.9697	3228.7056	6458.6753	22.4926	22.4945	5	5
642	0.13	4095.7422	3653.1961	7748.9383	12.6737	13.1077	3	3
333	0.07	10907.4086	10821.0784	21728.4871	27.3207	27.4995	6	6
334	0.02	6881.8590	6794.2647	13676.1237	17.8045	17.9416	4	4
335	0.32	3691.3806	3691.3806	7382.7612	42.1939	42.1939	9	9
753	0.26	7703.0606	7711.3298	15414.3904	38.1182	38.0978	8	8
337	0.53	43.3051	43.3051	86.6103	25.0000	25.0000	6	6
338	0.47	6881.8590	6794.2647	13676.1237	17.8045	17.9416	4	4
339	0.20	2123.5991	2036.0048	4159.6040	24.1730	24.2408	5	5
340	0.12	161.8522	161.8522	323.7044	25.0000	25.0000	6	6
341	1.12	5052.2280	5052.2280	10104.4561	37.1537	37.1537	8	8
342	0.35	43.3051	43.3051	86.6103	24.9991	24.9991	5	5
343	0.15	2123.5991	2036.0048	4159.6040	43.5113	43.6335	9	9
344	3.69	3566.2629	3566.2629	7132.5259	52.3743	52.3743	11	11
345	2.28	4824.7148	4824.7148	9649.4297	37.7609	37.7609	8	8
346	0.48	1079.6910	1079.6910	2159.3821	24.9991	24.9991	5	5
347	0.44	1053.1453	1053.1453	2106.2905	24.7379	24.7379	5	5
348	1.73	227.5134	227.5134	455.0267	34.9743	34.9743	7	7
349	4.80	2092.9611	2005.3668	4098.3278	43.5546	43.6751	9	9
350	0.01	0.0000	0.0000	0.0000	35.0000	35.0000	8	8
351	0.75	4619.6621	4619.6621	9239.3242	38.2980	38.2980	8	8
352	1.47	292.1973	292.1973	584.3947	34.9565	34.9565	7	7
353	0.57	227.5134	227.5134	455.0267	25.0000	25.0000	6	6
354	0.20	292.1973	292.1973	584.3947	24.9999	24.9999	5	5
355	1.16	4604.0645	4604.0645	9208.1289	38.3384	38.3384	8	8
356	0.31	562.9519	562.9519	1125.9038	24.9998	24.9998	5	5

357	0.56	2704.3461	2790.0616	5494.4076	33.1175	32.9973	7	7
358	0.62	66.6161	52.5302	119.1463	34.9989	34.9993	7	7
359	0.25	2563.2558	2648.9714	5212.2272	33.3081	33.1934	7	7
360	1.52	165.0429	165.0429	330.0858	25.0000	25.0000	6	6
361	2.91	2620.0417	2691.6713	5311.7130	33.2325	33.1350	7	7
362	6.04	38.3139	38.4164	76.7303	24.9993	24.9993	5	5
363	3.04	160.8105	160.8285	321.6390	34.9928	34.9928	7	7
364	0.68	192.9765	192.9765	385.9529	25.0000	25.0000	6	6
365	1.37	153.4653	153.4653	306.9306	25.0000	25.0000	6	6
366	2.86	153.4653	153.4653	306.9306	24.9871	24.9871	5	5
367	0.27	2153.9531	2066.3588	4220.3119	24.1488	24.2176	5	5
368	1.95	2000.4877	1912.8934	3913.3812	33.9746	34.0642	7	7
369	1.94	127.3318	127.3318	254.6636	25.0000	25.0000	6	6
370	2.37	486.8630	486.8630	973.7260	24.8556	24.8556	5	5
371	1.21	486.8630	486.8630	973.7260	24.9998	24.9998	5	5
372	0.79	301.4431	301.4431	602.8863	24.9999	24.9999	5	5
373	1.51	479.3530	479.3530	958.7060	24.8602	24.8602	5	5
374	0.36	301.4431	301.4431	602.8863	24.9470	24.9470	5	5
375	0.01	301.4431	301.4431	602.8863	24.9470	24.9470	5	5
376	0.71	650.7367	650.7367	1301.4734	24.9997	24.9997	5	5
377	0.70	1271.8033	1271.8003	2543.6037	44.3025	44.3025	9	9
378	0.79	2198.7887	2118.0372	4316.8260	43.4025	43.5192	9	9
379	1.15	1787.1543	1787.1563	3574.3107	48.8368	48.8368	10	10
380	0.64	5579.4403	5587.4527	11166.8931	48.7447	48.7280	10	10
381	1.19	344.9106	344.9106	689.8212	24.9999	24.9999	5	5
382	0.77	4101.2179	4104.3509	8205.5689	46.1697	46.1640	10	10
383	0.03	4342.7985	4345.9315	8688.7300	45.7224	45.7164	10	10
384	0.15	5013.1468	5026.3286	10039.4755	37.2588	37.2234	8	8
385	0.78	9190.9648	9209.2531	18400.2179	34.4432	34.3984	7	7
386	0.43	3742.7784	3742.7804	7485.5588	44.9448	44.9448	9	9
387	0.66	4904.9868	4918.1687	9823.1555	37.5480	37.5129	8	8
388	0.41	205.1669	205.1669	410.3337	24.9764	24.9764	5	5
389	0.11	205.1669	205.1669	410.3337	25.0000	25.0000	6	6
390	1.18	7634.7888	7655.9811	15290.7698	44.0725	44.0214	9	9
391	1.30	1450.3712	1445.4888	2895.8600	39.1870	39.1926	8	8
392	0.32	1461.3651	1459.8686	2921.2336	34.2775	34.2790	7	7
637	0.06	3891.4548	3891.4548	7782.9097	24.9868	24.9868	5	5
394	0.15	5107.5016	5112.2067	10219.7083	30.9643	30.9508	7	7
395	0.12	7988.3797	7996.6488	15985.0284	37.4125	37.3921	8	8
773	0.05	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
397	0.49	4317.5343	4329.5960	8647.1304	45.7701	45.7473	10	10
398	0.71	5899.7441	5927.4672	11827.2113	42.4435	42.3802	9	9
399	1.17	1635.8714	1651.5327	3287.4041	29.2194	29.2041	6	6
649	0.12	2110.8534	2181.4168	4292.2702	22.1931	22.0163	5	5
638	0.04	2231.6384	2231.6384	4463.2769	24.9959	24.9959	5	5
761	0.14	1085.2900	1071.1498	2156.4398	24.7210	24.7285	5	5
403	0.26	4912.6714	4912.6714	9825.3428	24.9784	24.9784	5	5
681	0.17	0.0000	0.0000	0.0000	1.0000	1.0000	1	1
678	0.09	4306.1922	3940.9746	8247.1668	15.9718	17.0153	4	4
680	0.09	4306.1922	3940.9746	8247.1668	15.9718	17.0153	4	4
407	0.09	15510.5969	15491.3338	31001.9307	10.6138	10.6297	3	3

408	0.10	1294.1468	1294.1468	2588.2936	24.9987	24.9987	5	5
409	0.09	116.7559	116.7559	233.5118	25.0000	25.0000	6	6
410	0.05	1593.8392	1593.8392	3187.6785	24.9980	24.9980	5	5
411	0.12	8814.4398	8763.5255	17577.9653	31.8318	31.9448	7	7
412	0.04	2602.4551	2602.4551	5204.9102	24.9943	24.9943	5	5
413	0.08	471.0700	471.0700	942.1401	34.9317	34.9317	7	7
414	0.03	418.0602	418.0602	836.1205	24.9999	24.9999	5	5
415	0.06	1590.8801	1590.8801	3181.7603	24.9980	24.9980	5	5
416	0.06	3802.7352	3888.4507	7691.1859	22.3956	22.2843	5	5
417	0.18	708.6672	708.6672	1417.3345	24.9996	24.9996	5	5
418	0.47	7742.6851	7423.9266	15166.6118	34.2183	34.9254	7	7
752	0.16	164.5348	164.5348	329.0696	25.0000	25.0000	6	6
755	0.15	234.6411	234.6411	469.2823	25.0000	25.0000	6	6
421	0.09	2509.5872	2509.5872	5019.1743	24.9947	24.9947	5	5
422	0.27	2781.4793	2804.5613	5586.0406	20.3956	20.3301	5	5
423	0.28	1684.0299	1707.1119	3391.1418	23.1760	23.1271	5	5
424	0.17	7742.6851	7423.9266	15166.6118	34.2183	34.9254	7	7
425	0.86	9027.2132	8685.3727	17712.5858	33.2720	33.9613	7	7
426	0.21	396.2905	382.2226	778.5131	24.9748	24.9767	5	5
745	0.13	729.3040	729.3040	1458.6079	24.9996	24.9996	5	5
428	0.34	396.2905	382.2226	778.5131	24.9748	24.9767	5	5
429	0.24	188.3051	188.3051	376.6101	25.0000	25.0000	6	6
430	1.51	3208.8084	3294.5240	6503.3324	32.3652	32.2271	7	7
431	0.58	1516.7644	1516.7644	3033.5288	28.8588	28.8588	6	6
432	0.23	2253.2070	2253.2070	4506.4141	24.9958	24.9958	5	5
433	0.03	15384.9053	15384.9053	30769.8105	19.2929	19.2929	4	4
434	0.03	12969.5401	12969.8758	25939.4159	36.9720	36.9716	8	8
435	0.15	4455.0542	4455.0542	8910.1084	24.9824	24.9824	5	5
436	2.26	13045.7607	13045.7607	26091.5215	24.8331	24.8331	5	5
437	1.62	13045.7607	13045.7607	26091.5215	23.1670	23.1670	5	5
438	0.17	131.1435	128.8471	259.9907	25.0000	25.0000	6	6
439	1.43	13045.7607	13045.7607	26091.5215	23.1670	23.1670	5	5
440	0.39	479.3530	479.3530	958.7060	24.9998	24.9998	5	5
441	4.65	31.0634	31.0811	62.1445	29.9998	29.9998	6	6
442	1.78	6453.4597	6609.2173	13062.6770	46.8405	46.4863	10	10
443	0.96	407.2539	407.2539	814.5079	24.9999	24.9999	5	5
444	2.05	1136.4704	1076.2225	2212.6929	34.6808	34.7150	7	7
445	1.19	6800.0447	6955.8024	13755.8471	46.0472	45.6850	10	10
446	1.51	6825.7842	6981.5595	13807.3437	45.9876	45.6248	10	10
447	0.51	1616.5173	1616.5173	3233.0347	24.9979	24.9979	5	5
448	1.33	1616.5173	1616.5173	3233.0347	23.3161	23.3161	5	5
449	1.16	16894.4112	16924.4735	33818.8847	23.7639	23.7135	5	5
450	0.55	926.5800	926.5800	1853.1599	24.4512	24.4512	5	5
451	0.78	15967.8312	15997.8935	31965.7247	25.3736	25.3196	6	6
452	0.70	926.5800	926.5800	1853.1599	24.9994	24.9994	5	5
453	0.86	9458.8184	9379.1351	18837.9535	30.4105	30.5851	7	7
454	0.97	434.6354	434.6354	869.2707	24.8861	24.8861	5	5
455	0.58	434.6354	434.6354	869.2707	24.9999	24.9999	5	5
456	0.57	775.6463	775.6463	1551.2926	24.9996	24.9996	5	5
457	1.69	9026.9355	8947.2522	17974.1877	31.3610	31.5373	7	7
458	0.54	243.9526	243.9526	487.9052	25.0000	25.0000	6	6

459	1.95	243.9526	243.9526	487.9052	24.9877	24.9877	5	5
460	4.60	2658.3556	2730.0877	5388.4433	33.1806	33.0817	7	7
461	1.02	1129.8147	1069.5668	2199.3815	34.6846	34.7186	7	7
462	0.38	7810.4705	7905.9980	15716.4686	34.0675	33.8548	7	7
463	0.53	9270.8880	9191.2048	18462.0929	30.8229	30.9984	7	7
464	5.48	35.4359	35.4539	70.8898	34.9997	34.9997	7	7
465	0.67	17078.1918	17094.0360	34172.2278	23.4577	23.4315	5	5
466	0.46	17223.7194	17253.7814	34477.5008	23.2183	23.1692	5	5
467	0.07	1575.0969	1560.8791	3135.9759	24.5515	24.5598	5	5
468	0.22	1175.9160	1175.9160	2351.8320	24.1075	24.1075	5	5
469	0.80	1175.9160	1175.9160	2351.8320	24.9989	24.9989	5	5
470	3.99	166.0027	166.1968	332.1995	24.9945	24.9945	5	5
471	0.23	2748.9515	2821.2539	5570.2054	33.0553	32.9528	7	7
472	0.61	4358.1356	4598.4149	8956.5505	25.9776	25.5687	6	6
473	0.10	987.6254	987.6254	1975.2507	24.9993	24.9993	5	5
689	0.19	19016.9060	18970.0644	37986.9704	30.3020	30.3532	7	7
475	0.19	465.3377	465.3377	930.6754	24.9998	24.9998	5	5
476	0.05	23448.7159	23161.5947	46610.3106	25.6690	25.9538	6	6
477	0.22	2116.8103	2116.8103	4233.6207	24.9963	24.9963	5	5
478	0.23	16488.7040	16488.6863	32977.3903	33.1006	33.1007	7	7
479	0.07	3888.4797	3888.4797	7776.9595	24.9868	24.9868	5	5
480	0.28	14971.6230	14971.6052	29943.2282	34.7884	34.7884	7	7
481	0.25	23466.0533	23178.9320	46644.9854	25.6519	25.9365	6	6
482	0.06	10980.5595	11267.6631	22248.2226	27.1698	26.5831	6	6
483	0.09	1653.1104	1653.1104	3306.2207	24.9978	24.9978	5	5
484	0.17	10148.9177	10436.0212	20584.9389	28.9164	28.3060	6	6
485	0.03	458.1430	458.1430	916.2861	24.9999	24.9999	5	5
486	0.14	429.5950	429.5950	859.1899	24.9702	24.9702	5	5
487	0.16	9902.6778	10189.7816	20092.4594	29.4455	28.8291	6	6
488	0.22	1713.2626	1713.2626	3426.5251	24.9976	24.9976	5	5
489	0.01	9032.1033	9319.2071	18351.3103	31.3496	30.7167	7	7
490	0.02	2871.3371	2657.7700	5529.1071	23.4860	23.7010	5	5
491	0.02	1613.3325	1613.3325	3226.6650	24.9979	24.9979	5	5
492	0.01	7097.4636	7171.0001	14268.4636	35.6445	35.4831	8	8
493	0.42	1456.5939	1243.0268	2699.6207	34.4657	34.6154	7	7
759	0.32	4483.9583	4515.2461	8999.2043	36.3618	36.3132	8	8
495	1.25	115.6056	115.6056	231.2112	24.9929	24.9929	5	5
496	0.01	2297.0224	2226.4591	4523.4815	21.7194	21.9017	5	5
497	0.40	446.0663	446.0663	892.1327	24.9999	24.9999	5	5
498	0.75	1966.2824	1895.7190	3862.0013	22.5434	22.7083	5	5
499	0.13	14702.4850	14702.4672	29404.9522	35.0860	35.0860	8	8
500	0.25	14229.3189	14229.6546	28458.9735	35.6068	35.6064	8	8
501	0.11	1216.1314	1215.7781	2431.9094	24.7375	24.7376	5	5
502	0.47	91.4327	91.4327	182.8655	24.9988	24.9988	5	5
503	0.17	572.5813	572.5813	1145.1627	24.9998	24.9998	5	5
504	0.13	849.9390	849.9390	1699.8781	24.9995	24.9995	5	5
666	0.22	8329.2783	8329.2783	16658.5566	24.9347	24.9347	5	5
506	0.44	19962.1226	20271.4425	40233.5651	29.2765	28.9446	6	6
636	0.00	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
508	0.01	20266.9995	20576.3194	40843.3188	28.9494	28.6194	6	6
509	0.01	810.0797	810.0797	1620.1594	24.5839	24.5839	5	5

510	0.15	20266.9995	20576.3194	40843.3188	28.9494	28.6194	6	6
511	0.02	18118.0161	18500.4478	36618.4639	31.2901	30.8684	7	7
512	0.07	12447.5354	12110.0060	24557.5414	18.7274	19.3615	4	4
513	0.16	810.0797	810.0797	1620.1594	24.9995	24.9995	5	5
514	0.15	18118.0161	18500.4478	36618.4639	31.2901	30.8684	7	7
515	0.20	14864.5391	14880.4405	29744.9796	20.0930	20.0680	5	5
650	0.10	5951.2558	5967.8709	11919.1268	19.2623	19.2364	4	4
517	0.15	955.2553	955.0622	1910.3175	24.9993	24.9993	5	5
692	1.07	5573.3353	5573.8570	11147.1923	43.1787	43.1775	9	9
519	0.08	585.5001	585.5001	1171.0001	24.9998	24.9998	5	5
520	0.07	4782.5812	4763.8104	9546.3917	14.6662	14.7162	3	3
521	0.03	4782.5812	4763.8104	9546.3917	14.6662	14.7162	3	3
522	0.16	4505.9370	4487.1662	8993.1032	15.4157	15.4674	4	4
523	0.23	5406.4481	5410.7593	10817.2074	13.0786	13.0681	3	3
524	0.39	1289.3285	1212.2974	2501.6259	24.7036	24.7392	5	5
525	0.16	364.2867	364.2867	728.5733	24.9999	24.9999	5	5
526	0.84	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
527	0.16	8675.4319	8624.5177	17299.9496	32.1405	32.2538	7	7
528	0.17	2220.4841	2220.4841	4440.9683	24.9959	24.9959	5	5
529	0.21	9785.5829	9734.6686	19520.2515	29.6987	29.8091	6	6
530	0.26	11783.9650	11804.6983	23588.6633	25.5515	25.5107	6	6
531	0.71	1328.1252	1328.1252	2656.2505	24.9986	24.9986	5	5
532	0.17	11254.0795	11288.8807	22542.9602	26.6107	26.5401	6	6
533	0.13	1874.4968	1860.4289	3734.9257	24.3587	24.3685	5	5
534	0.06	10859.4720	10894.2731	21753.7451	27.4199	27.3478	6	6
535	0.10	3685.9793	3771.6948	7457.6741	22.5444	22.4355	5	5
536	1.08	1.2898	1.2899	2.5797	35.0000	35.0000	8	8
537	0.32	157.0756	157.0756	314.1513	25.0000	25.0000	6	6
538	0.45	157.0756	157.0756	314.1513	24.9865	24.9865	5	5
539	0.25	10090.7478	10120.8097	20211.5575	38.0526	37.9793	8	8
540	0.60	10032.0051	10062.0670	20094.0721	38.1960	38.1226	8	8
541	1.05	58.7428	58.7428	117.4856	34.9991	34.9991	7	7
542	0.88	653.6689	652.9643	1306.6332	34.7653	34.7658	7	7
543	1.04	157.0756	157.0756	314.1513	34.9882	34.9882	7	7
544	0.29	9497.1167	9527.8834	19025.0001	39.5080	39.4323	8	8
545	0.53	4225.6505	4195.5884	8421.2389	30.5645	30.6222	7	7
546	0.84	246.3623	248.5450	494.9073	24.9653	24.9647	5	5
547	1.54	248.5450	246.3623	494.9073	25.0000	25.0000	6	6
548	2.73	3979.2882	3947.0435	7926.3317	31.0306	31.0903	7	7
549	2.59	9548.4101	9579.1766	19127.5867	39.3818	39.3061	8	8
550	0.95	0.0846	0.0846	0.1691	25.0000	25.0000	6	6
551	1.15	253.4948	255.6775	509.1722	25.0000	25.0000	6	6
552	0.56	1.4029	1.4029	2.8058	35.0000	35.0000	8	8
553	0.31	652.2660	651.5614	1303.8274	24.7344	24.7350	5	5
554	1.46	652.2660	651.5614	1303.8274	24.9997	24.9997	5	5
555	7.76	60.1457	60.1458	120.2915	34.9991	34.9991	7	7
556	2.48	9383.7879	9416.7371	18800.5251	39.7870	39.7058	8	8
557	2.51	3979.3728	3947.1281	7926.5009	31.0304	31.0901	7	7
558	3.56	107.2319	106.5273	213.7592	25.0000	25.0000	6	6
559	3.19	2.0891	2.0891	4.1781	25.0000	25.0000	6	6
560	1.17	13248.4708	13249.1752	26497.6460	30.7450	30.7434	7	7

561	1.69	13294.9070	13294.9069	26589.8139	30.6453	30.6453	7	7
562	8.32	62.2348	62.2348	124.4696	34.9990	34.9990	7	7
563	0.67	91.0603	91.0603	182.1207	25.0000	25.0000	6	6
564	0.07	1186.5669	1186.5669	2373.1338	34.5300	34.5300	7	7
565	8.44	12120.0808	12120.0807	24240.1615	33.2447	33.2447	7	7
566	5.27	28.8255	28.8256	57.6511	34.9998	34.9998	7	7
567	2.05	12100.7578	12100.7578	24201.5156	33.2888	33.2888	7	7
568	4.99	905.8372	905.8372	1811.6744	54.8453	54.8453	11	11
569	1.64	1656.9625	1656.9625	3313.9250	24.9978	24.9978	5	5
570	1.23	1186.5669	1186.5669	2373.1338	24.9989	24.9989	5	5
744	0.07	207.1639	207.1639	414.3278	25.0000	25.0000	6	6
577	0.90	2138.7393	2046.3269	4185.0662	38.6575	38.7728	8	8
574	1.93	6784.7983	6940.5558	13725.3542	36.3263	35.9876	8	8
575	0.99	2340.1207	2230.6237	4570.7443	38.3895	38.5380	8	8
576	0.15	1762.7000	1836.8364	3599.5364	39.0954	39.0157	8	8
578	0.69	2038.3500	2221.9833	4260.3334	24.9966	24.9959	5	5
579	1.21	14427.2271	14411.3252	28838.5523	20.7925	20.8184	5	5
580	0.53	17332.2960	17303.1697	34635.4657	16.5965	16.6335	4	4
581	1.61	13809.0840	13834.2241	27643.3081	21.8240	21.7811	5	5
582	4.19	1579.0739	1511.2805	3090.3544	34.1529	34.2258	7	7
583	7.77	1190.0889	1299.7146	2489.8035	34.5271	34.4326	7	7
585	0.36	905.6158	788.9693	1694.5851	29.8296	29.8722	6	6
586	1.07	18315.3720	18151.8836	36467.2557	31.0722	31.2527	7	7
587	0.17	1499.8539	1383.2075	2883.0614	29.5135	29.5885	6	6
588	0.47	8723.3294	8988.5841	17711.9135	32.0341	31.4458	7	7
589	0.72	2960.4109	2960.9487	5921.3596	32.7489	32.7481	7	7
590	0.03	2979.9604	2979.9604	5959.9207	23.3712	23.3712	5	5
591	0.33	3048.5479	3048.5479	6097.0958	32.6156	32.6156	7	7
592	0.15	961.4479	960.9101	1922.3580	24.9993	24.9993	5	5
595	0.28	3967.5437	3724.6540	7692.1976	26.9671	27.7587	6	6
596	0.38	11306.1948	10640.4255	21946.6203	26.5051	27.8761	6	6
687	0.03	4852.9152	5043.6849	9896.6001	14.4799	13.9836	3	3
598	0.82	4611.1953	4611.1953	9222.3906	24.9811	24.9811	5	5
599	0.17	14880.4405	14864.5391	29744.9796	34.8893	34.9069	7	7
600	0.04	12555.4587	12100.2716	24655.7303	24.0697	24.9350	5	5
601	0.21	13379.5642	12729.0505	26108.6147	22.5703	23.7465	5	5
602	0.20	9453.1014	10440.3141	19893.4155	30.4230	28.2969	7	6
603	0.26	11120.1958	11864.5187	22984.7144	26.8834	25.3933	6	6
604	0.15	16895.6389	17206.2430	34101.8819	32.6472	32.3014	7	7
605	0.11	7900.3374	8011.8609	15912.1983	8.2736	8.1115	2	2
610	0.15	5572.3441	5207.1265	10779.4707	12.6823	13.5694	3	3
626	0.09	4202.8115	4092.8458	8295.6574	16.2640	16.5777	4	4
614	0.11	5374.9798	5390.2355	10765.2152	13.1550	13.1179	3	3
682	0.10	0.0000	0.0000	0.0000	1.0000	1.0000	1	1
611	0.15	5572.3441	5207.1265	10779.4707	12.6823	13.5694	3	3
612	0.16	5572.3441	5207.1265	10779.4707	12.6823	13.5694	3	3
613	0.16	4852.9152	5043.6849	9896.6001	14.4799	13.9836	3	3
615	0.05	6906.5889	6906.5889	13813.1777	9.9033	9.9033	2	2
618	0.25	1455.8167	1651.1435	3106.9602	23.6302	23.2448	5	5
617	0.31	2954.5884	3165.1710	6119.7595	19.9002	19.2882	4	4
619	0.09	2954.5884	3165.1710	6119.7595	19.9002	19.2882	4	4

622	0.23	1533.6123	1548.8680	3082.4803	23.4816	23.4517	5	5
623	0.22	1533.6123	1548.8680	3082.4803	23.4816	23.4517	5	5
633	0.17	9506.9277	9506.9277	19013.8555	24.9138	24.9138	5	5
625	0.05	1978.5433	1868.5776	3847.1209	22.5144	22.7705	5	5
627	0.08	2145.2446	2035.2791	4180.5237	22.1074	22.3783	5	5
628	0.04	2231.6384	2231.6384	4463.2769	21.8884	21.8884	5	5
631	0.04	1951.9627	1852.9038	3804.8664	22.5772	22.8062	5	5
630	0.33	1852.9038	1951.9627	3804.8664	22.8062	22.5772	5	5
632	0.04	1951.9627	1852.9038	3804.8664	22.5772	22.8062	5	5
643	0.04	808.2177	808.2177	1616.4353	24.9995	24.9995	5	5
704	0.47	1398.5939	1397.0974	2795.6913	34.3399	34.3414	7	7
658	0.13	1286.5419	1286.5419	2573.0837	24.9987	24.9987	5	5
661	0.41	0.0000	0.0000	0.0000	1.0000	1.0000	1	1
664	0.03	6072.6930	6263.4628	12336.1558	11.5555	11.1530	3	3
665	0.08	11110.7871	11110.7871	22221.5742	24.8806	24.8806	5	5
698	0.46	4088.3154	4088.3154	8176.6309	24.9853	24.9853	5	5
696	0.16	562.7064	562.7064	1125.4128	24.9998	24.9998	5	5
686	0.03	23615.3214	23328.2000	46943.5214	25.5049	25.7882	6	6
672	1.86	1731.1589	1922.3009	3653.4598	24.9976	24.9970	5	5
754	0.41	3472.2642	3453.4190	6925.6832	47.2373	47.2670	10	10
674	2.55	2357.1564	2166.0145	4523.1709	24.9954	24.9961	5	5
690	0.30	6904.3870	6920.8090	13825.1960	17.7693	17.7436	4	4
725	0.07	8630.3736	8630.8953	17261.2689	17.9115	17.9109	4	4
706	0.16	451.2728	451.2728	902.5456	24.9554	24.9554	5	5
707	0.09	564.5409	564.5409	1129.0818	24.9287	24.9287	5	5
708	0.08	6626.9662	6635.7578	13262.7239	20.3706	20.3601	5	5
710	0.06	2853.5759	2839.4796	5693.0555	23.0216	23.0405	5	5
715	0.18	795.8736	781.7335	1577.6071	24.8538	24.8591	5	5
712	0.16	1791.2985	1791.2985	3582.5970	24.2172	24.2172	5	5
713	0.04	2615.8145	2601.6743	5217.4888	23.3299	23.3475	5	5
714	0.17	7729.0278	7737.2969	15466.3247	38.0540	38.0336	8	8
716	0.17	5238.0588	5238.5370	10476.5958	19.1176	19.1168	4	4
717	0.35	7915.2310	7923.5001	15838.7310	37.5936	37.5731	8	8
718	0.07	7765.1735	7773.4868	15538.6603	37.9647	37.9442	8	8
720	0.37	4483.9583	4515.2461	8999.2043	36.3618	36.3132	8	8
724	0.26	3329.3627	3327.8662	6657.2288	31.2835	31.2866	7	7
748	0.12	3433.4243	3433.4243	6866.8486	24.9898	24.9898	5	5
723	0.17	11548.0740	11566.3619	23114.4360	14.4550	14.4347	3	3
726	0.16	6550.3072	6559.0986	13109.4058	20.4621	20.4516	5	5
727	0.21	548.0374	548.0812	1096.1186	24.9330	24.9330	5	5
728	0.14	113.2682	113.2682	226.5363	24.9975	24.9975	5	5
729	0.33	501.1785	501.1785	1002.3569	24.9444	24.9444	5	5
747	0.23	2998.2187	2984.1224	5982.3410	22.8240	22.8436	5	5
732	0.18	1021.3533	1021.3533	2042.7067	24.9992	24.9992	5	5
746	0.08	7664.1057	7672.4188	15336.5244	38.2143	38.1938	8	8
734	0.44	1818.6674	1819.1457	3637.8131	33.8698	33.8692	7	7
735	0.43	5399.7408	5427.4638	10827.2046	43.5607	43.5002	9	9
736	0.29	3815.7054	3796.8603	7612.5657	46.6724	46.7046	10	10
738	0.80	0.0000	0.0000	0.0000	40.0000	40.0000	9	9
740	0.16	4461.5063	4464.7147	8926.2210	32.7958	32.7868	7	7
741	0.00	11426.1630	11428.1363	22854.2993	29.1813	29.1769	6	6

742	0.01	9190.9648	9209.2531	18400.2179	34.4432	34.3984	7	7
743	0.43	9165.6980	9182.0131	18347.7111	34.5051	34.4651	7	7
751	0.20	1328.1252	1328.1252	2656.2505	29.4914	29.4914	6	6
831	0.23	2563.1307	2574.0271	5137.1578	23.3953	23.3818	5	5
771	0.58	7177.8242	7179.7976	14357.6218	39.4090	39.4041	8	8
770	0.15	10771.3027	10771.3027	21542.6055	24.8881	24.8881	5	5
763	0.18	161.7485	159.4521	321.2006	25.0000	25.0000	6	6
764	0.59	4461.5063	4464.7147	8926.2210	32.7958	32.7868	7	7
765	0.17	6273.7623	6278.0320	12551.7943	41.5778	41.5677	9	9
819	0.49	1228.0938	1213.9537	2442.0475	24.6395	24.6481	5	5
769	0.04	9356.8817	9357.4033	18714.2850	17.0189	17.0182	4	4
775	0.03	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
776	0.04	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
778	0.27	2294.4851	2294.4851	4588.9702	24.9956	24.9956	5	5
789	0.10	933.9479	933.9479	1867.8958	24.9993	24.9993	5	5
780	0.46	1191.8147	1191.8147	2383.6294	24.9989	24.9989	5	5
781	0.54	101.9165	101.9165	203.8331	25.0000	25.0000	6	6
783	0.04	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
791	0.20	1964.7444	1964.7444	3929.4888	24.9968	24.9968	5	5
785	0.12	1354.7063	1354.7063	2709.4126	24.9986	24.9986	5	5
821	0.16	5112.2067	5107.5016	10219.7083	44.1784	44.1883	9	9
795	0.22	5019.7207	5019.7207	10039.4414	24.9774	24.9774	5	5
802	0.08	0.0000	0.0000	0.0000	25.0000	25.0000	6	6
797	0.13	2209.2944	2209.2944	4418.5889	24.9960	24.9960	5	5
799	0.04	742.4614	742.4614	1484.9227	24.9996	24.9996	5	5
800	0.12	742.4614	742.4614	1484.9227	24.9996	24.9996	5	5
803	0.14	1134.6215	1134.6215	2269.2429	24.6941	24.6941	5	5
830	0.40	1423.8785	1434.7748	2858.6533	24.5108	24.5030	5	5
805	0.29	7097.6450	7139.7958	14237.4407	31.6836	31.6014	7	7
806	0.05	15726.0813	15706.8181	31432.8993	10.4372	10.4528	3	3
807	0.63	6435.5107	6437.4841	12872.9948	41.1967	41.1920	9	9
808	0.82	5573.3353	5573.8570	11147.1923	43.1787	43.1775	9	9
809	0.14	1552.2190	1545.0401	3097.2591	39.0653	39.0742	8	8
810	1.50	1546.9724	1562.6337	3109.6061	29.3039	29.2893	6	6
811	1.13	3778.0211	3772.0769	7550.0981	40.3692	40.3829	9	9
812	0.57	1884.0693	1884.0713	3768.1406	48.7040	48.7040	10	10
817	0.14	1813.5353	1813.5353	3627.0706	24.9973	24.9973	5	5
814	0.03	2430.3513	2430.3513	4860.7026	23.5551	23.5551	5	5
815	0.13	2615.8145	2601.6743	5217.4888	23.3299	23.3475	5	5
816	0.31	666.9208	666.9208	1333.8416	24.9997	24.9997	5	5
820	0.23	2430.3513	2430.3513	4860.7026	32.9771	32.9771	7	7
826	0.21	634.4818	645.3781	1279.8598	24.9089	24.9056	5	5
823	0.37	280.4289	280.3955	560.8244	24.9836	24.9836	5	5
829	0.70	1861.1443	1861.1443	3722.2886	24.9972	24.9972	5	5
841	0.32	195.7482	195.7482	391.4964	39.9876	39.9876	8	8
828	0.22	113.2682	113.2682	226.5363	24.9975	24.9975	5	5
833	0.14	399.4706	399.4706	798.9412	24.9999	24.9999	5	5
840	0.33	500.0033	500.0033	1000.0066	39.9115	39.9115	8	8
835	0.15	2116.8103	2116.8103	4233.6207	24.9963	24.9963	5	5
842	0.47	2159.7080	2158.2115	4317.9196	33.4010	33.4032	7	7
837	0.14	195.7482	195.7482	391.4964	25.0000	25.0000	6	6

843	3.37	2577.9723	2584.0899	5162.0623	48.4828	48.4755	10	10
839	0.11	1964.7444	1964.7444	3929.4888	24.9968	24.9968	5	5
845	0.16	11426.1630	11428.1363	22854.2993	29.1813	29.1769	6	6

ID	LENGTH	AB_FLOW	BA_FLOW	TOT_FLOW	AB_SPEED1	BA_SPEED1	VMT	AB Speed Cat
							0	1 Total
							2228.939	2 Total
							38715.09	3 Total
							51157.95	4 Total
							432925.5	5 Total
							113010.2	6 Total
							744556	7 Total
							577173.9	8 Total
							182365.3	9 Total
							103603.6	10 Total
							109062.3	11 Total
							2354799	Grand Total

ID	LENGTH	AB_FLOW	BA_FLOW	TOT_FLOW	AB_SPEED1	BA_SPEED1	VMT	BA Speed Cat
685	0.48	0.0000	0.0000	0.0000	1.0000	1.0000	0	1
681	0.17	0.0000	0.0000	0.0000	1.0000	1.0000	0	1
682	0.10	0.0000	0.0000	0.0000	1.0000	1.0000	0	1
661	0.41	0.0000	0.0000	0.0000	1.0000	1.0000	0	1
							0	1 Total
154	0.06	16909.5362	16891.7699	33801.3061	9.5241	9.5371	1013.506	2
605	0.11	7900.3374	8011.8609	15912.1983	8.2736	8.1115	881.3047	2
615	0.05	6906.5889	6906.5889	13813.1777	9.9033	9.9033	345.3294	2
							2240.14	2 Total
16	0.02	5661.1836	5661.1836	11322.3672	48.5734	11.8573	113.2237	3
152	0.11	12135.8407	12154.1286	24289.9693	13.8147	13.7952	1336.954	3
652	0.20	5832.7093	5836.8273	11669.5366	12.0831	12.0739	1167.365	3
198	0.09	4605.1331	4162.5870	8767.7201	12.1479	12.6061	374.6328	3
260	1.22	19990.0859	19990.9603	39981.0462	13.5983	13.5974	24388.97	3
663	0.03	4852.9152	5043.6849	9896.6001	14.4799	13.9836	151.3105	3
662	0.10	6072.6930	6263.4628	12336.1558	11.5555	11.1530	626.3463	3
642	0.13	4095.7422	3653.1961	7748.9383	12.6737	13.1077	474.9155	3
407	0.09	15510.5969	15491.3338	31001.9307	10.6138	10.6297	1394.22	3
520	0.07	4782.5812	4763.8104	9546.3917	14.6662	14.7162	333.4667	3
521	0.03	4782.5812	4763.8104	9546.3917	14.6662	14.7162	142.9143	3
523	0.23	5406.4481	5410.7593	10817.2074	13.0786	13.0681	1244.475	3
687	0.03	4852.9152	5043.6849	9896.6001	14.4799	13.9836	151.3105	3
610	0.15	5572.3441	5207.1265	10779.4707	12.6823	13.5694	781.069	3
614	0.11	5374.9798	5390.2355	10765.2152	13.1550	13.1179	592.9259	3
611	0.15	5572.3441	5207.1265	10779.4707	12.6823	13.5694	781.069	3
612	0.16	5572.3441	5207.1265	10779.4707	12.6823	13.5694	833.1402	3
613	0.16	4852.9152	5043.6849	9896.6001	14.4799	13.9836	806.9896	3
664	0.03	6072.6930	6263.4628	12336.1558	11.5555	11.1530	187.9039	3
723	0.17	11548.0740	11566.3619	23114.4360	14.4550	14.4347	1966.282	3
806	0.05	15726.0813	15706.8181	31432.8993	10.4372	10.4528	785.3409	3
							38634.83	3 Total
767	0.18	6984.7140	6985.2355	13969.9495	19.9396	19.9389	1257.342	4
651	0.52	5951.2558	5967.8709	11919.1268	19.2623	19.2364	3103.293	4
163	0.03	9603.8060	9626.6937	19230.4998	16.7188	16.6911	288.8008	4
749	0.05	10253.7227	10254.2444	20507.9672	15.9404	15.9398	512.7122	4
204	0.19	2884.1371	3064.9400	5949.0771	20.1029	19.5805	582.3386	4

257	0.97	17269.4944	17240.3681	34509.8625	16.6764	16.7136	16723.16	4
261	0.45	17269.4944	17240.3681	34509.8625	16.6764	16.7136	7758.166	4
334	0.02	6881.8590	6794.2647	13676.1237	17.8045	17.9416	135.8853	4
338	0.47	6881.8590	6794.2647	13676.1237	17.8045	17.9416	3193.304	4
678	0.09	4306.1922	3940.9746	8247.1668	15.9718	17.0153	354.6877	4
680	0.09	4306.1922	3940.9746	8247.1668	15.9718	17.0153	354.6877	4
433	0.03	15384.9053	15384.9053	30769.8105	19.2929	19.2929	461.5472	4
512	0.07	12447.5354	12110.0060	24557.5414	18.7274	19.3615	847.7004	4
650	0.10	5951.2558	5967.8709	11919.1268	19.2623	19.2364	596.7871	4
522	0.16	4505.9370	4487.1662	8993.1032	15.4157	15.4674	717.9466	4
580	0.53	17332.2960	17303.1697	34635.4657	16.5965	16.6335	9170.68	4
626	0.09	4202.8115	4092.8458	8295.6574	16.2640	16.5777	368.3561	4
617	0.31	2954.5884	3165.1710	6119.7595	19.9002	19.2882	981.203	4
619	0.09	2954.5884	3165.1710	6119.7595	19.9002	19.2882	284.8654	4
690	0.30	6904.3870	6920.8090	13825.1960	17.7693	17.7436	2076.243	4
725	0.07	8630.3736	8630.8953	17261.2689	17.9115	17.9109	604.1627	4
716	0.17	5238.0588	5238.5370	10476.5958	19.1176	19.1168	890.5513	4
769	0.04	9356.8817	9357.4033	18714.2850	17.0189	17.0182	374.2961	4
							51638.71	
							4 Total	
5	2.62	192.1296	192.1296	384.2592	24.9794	24.9794	503.3796	5
7	0.76	192.1296	192.1296	384.2592	24.9794	24.9794	146.0185	5
12	1.68	905.8372	905.8372	1811.6744	24.9994	24.9994	1521.806	5
14	0.72	208.5945	208.5945	417.1890	24.9755	24.9755	150.188	5
15	1.24	57.0002	57.0002	114.0004	24.9984	24.9984	70.68025	5
17	0.04	40.6403	40.6403	81.2806	24.9992	24.9992	1.625612	5
19	0.21	57.0002	57.0002	114.0004	24.9984	24.9984	11.97004	5
22	2.09	40.6403	40.6403	81.2806	24.9992	24.9992	84.93823	5
23	2.77	5750.4336	5750.4336	11500.8672	24.9700	24.9700	15928.7	5
24	2.86	288.0370	288.0370	576.0739	24.9518	24.9518	823.7858	5
25	1.89	288.0370	288.0370	576.0739	24.9999	24.9999	544.3899	5
29	1.13	600.8525	600.8525	1201.7051	24.7761	24.7761	678.9633	5
30	1.29	1468.4822	1468.4822	2936.9644	24.9983	24.9983	1894.342	5
32	1.84	428.2075	428.2075	856.4150	24.9999	24.9999	787.9018	5
35	6.58	600.8525	600.8525	1201.7051	24.9997	24.9997	3953.609	5
38	2.56	4671.6021	4671.6021	9343.2041	24.9806	24.9806	11959.3	5
40	7.34	233.5679	233.5679	467.1359	24.9690	24.9690	1714.388	5
43	1.64	1300.8188	1300.8188	2601.6377	24.9987	24.9987	2133.343	5

44	3.87	1300.8188	1300.8188	2601.6377	23.9060	23.9060	5034.169	5
50	0.32	160.0598	160.0598	320.1196	24.9860	24.9860	51.21914	5
51	0.21	32.0698	32.0698	64.1396	24.9995	24.9995	6.734658	5
52	1.92	151.5943	151.5943	303.1886	24.9875	24.9875	291.0611	5
57	0.84	767.1756	767.1756	1534.3512	24.9996	24.9996	644.4275	5
667	0.14	5801.6979	5558.8081	11360.5060	21.0638	21.8098	778.2331	5
62	0.10	28.9082	28.9082	57.8164	24.9996	24.9996	2.89082	5
64	3.27	28.9082	28.9082	57.8164	24.9999	24.9999	94.52981	5
66	1.00	392.7776	392.7776	785.5553	24.9999	24.9999	392.7776	5
68	1.11	4368.9980	4368.9980	8737.9961	24.9831	24.9831	4849.588	5
71	0.11	347.0661	348.1740	695.2401	24.9288	24.9284	38.29914	5
72	0.34	347.0661	348.1740	695.2401	24.9999	24.9999	118.3792	5
73	0.94	1475.0938	1475.0938	2950.1875	23.5940	23.5940	1386.588	5
74	0.41	576.5646	575.4567	1152.0213	24.9998	24.9998	235.9372	5
75	0.41	497.0378	497.0377	994.0755	24.9595	24.9595	203.7855	5
77	0.54	700.2634	701.3712	1401.6346	24.9170	24.9168	378.7404	5
84	1.45	5202.0557	5202.0557	10404.1113	24.9757	24.9757	7542.981	5
86	1.10	1198.9483	1198.9483	2397.8965	24.9989	24.9989	1318.843	5
88	0.70	289.9265	290.4968	580.4233	24.9999	24.9999	203.3478	5
89	2.07	40.1904	40.3845	80.5750	24.9997	24.9997	83.59592	5
92	0.65	199.2369	199.2369	398.4738	24.9778	24.9778	129.504	5
93	0.65	505.6650	491.4472	997.1122	24.9581	24.9605	319.4407	5
98	0.23	16181.8797	16211.9419	32393.8216	24.9918	24.9387	3728.747	5
102	0.88	158.1395	157.5872	315.7268	24.9951	24.9951	138.6767	5
105	0.18	209.0153	194.2451	403.2604	24.9911	24.9924	34.96412	5
106	0.36	325.2803	311.0625	636.3428	24.9834	24.9849	111.9825	5
107	3.07	209.0153	194.2451	403.2604	24.9911	24.9924	596.3325	5
109	0.77	16594.4034	16624.4654	33218.8688	24.2729	24.2214	12800.84	5
110	0.77	492.0196	492.0196	984.0392	24.9998	24.9998	378.8551	5
112	0.28	347.0661	348.1740	695.2401	24.9288	24.9284	97.48872	5
113	0.19	347.0661	348.1740	695.2401	24.9288	24.9284	66.15306	5
116	0.28	347.0661	348.1740	695.2401	24.9288	24.9284	97.48872	5
118	0.67	1475.0938	1475.0938	2950.1875	24.9983	24.9983	988.3128	5
120	1.96	11916.1133	11916.1133	23832.2266	24.8618	24.8618	23355.58	5
121	1.43	1587.7467	1587.7467	3175.4934	24.9980	24.9980	2270.478	5
125	0.49	3484.6008	3484.6008	6969.2017	24.9895	24.9895	1707.454	5
126	0.94	1471.5955	1471.5955	2943.1909	24.9983	24.9983	1383.3	5

130	1.89	3208.5034	3208.5034	6417.0068	24.9912	24.9912	6064.071	5
133	2.25	86.3199	86.3199	172.6398	24.9962	24.9962	194.2198	5
139	0.95	190.7065	190.7065	381.4130	24.9797	24.9797	181.1712	5
141	1.92	2741.0171	2741.0171	5482.0342	24.9937	24.9937	5262.753	5
146	1.78	108.6971	108.6971	217.3942	24.9938	24.9938	193.4808	5
147	2.14	10980.0029	10980.0029	21960.0059	24.8835	24.8835	23497.21	5
699	0.13	637.2830	637.0898	1274.3728	24.9997	24.9997	82.82167	5
156	0.10	391.4232	391.4232	782.8464	24.9999	24.9999	39.14232	5
157	0.06	1646.5049	1646.5049	3293.0098	24.9978	24.9978	98.79029	5
158	0.18	883.4930	883.4930	1766.9859	24.9994	24.9994	159.0287	5
709	0.15	452.3845	452.4284	904.8129	24.9552	24.9552	67.86426	5
161	0.16	742.4614	742.4614	1484.9227	24.9996	24.9996	118.7938	5
162	0.11	278.2724	278.2724	556.5448	24.9999	24.9999	30.60996	5
635	0.13	6906.5889	6906.5889	13813.1777	24.9559	24.9559	897.8566	5
695	0.12	5269.2646	5269.2646	10538.5293	24.9750	24.9750	632.3118	5
693	0.09	2054.3867	2054.3867	4108.7734	24.9965	24.9965	184.8948	5
180	2.23	347.8455	347.8455	695.6909	24.9999	24.9999	775.6955	5
185	2.67	1516.7644	1516.7644	3033.5288	24.9982	24.9982	4049.761	5
191	0.30	5558.8081	5801.6979	11360.5060	21.8098	21.0638	1740.509	5
768	0.05	1396.1437	1396.1437	2792.2874	24.9985	24.9985	69.80719	5
194	0.32	4905.0333	5029.2824	9934.3157	25.0319	24.8103	1609.37	5
195	0.36	358.7180	358.1017	716.8197	24.9999	24.9999	128.9166	5
196	0.24	1041.9679	1041.9679	2083.9358	24.9992	24.9992	250.0723	5
787	0.13	1362.2646	1362.2646	2724.5293	24.9985	24.9985	177.0944	5
201	0.19	1259.2676	1149.0281	2408.2957	23.9751	24.1484	218.3153	5
644	0.12	2674.5828	2674.5828	5349.1655	24.9940	24.9940	320.9499	5
205	0.09	960.6945	850.4550	1811.1495	24.4089	24.5400	76.54095	5
206	0.21	960.6945	850.4550	1811.1495	24.9993	24.9995	178.5956	5
207	0.22	1149.0281	1259.2676	2408.2957	24.9990	24.9988	277.0389	5
208	0.41	669.8512	660.8364	1330.6876	24.7193	24.7271	270.9429	5
209	0.20	744.0370	744.6533	1488.6903	24.9996	24.9996	148.9307	5
210	0.46	1391.7580	1382.1269	2773.8850	23.7476	23.7648	635.7784	5
757	0.12	1678.9665	1678.9665	3357.9329	24.3140	24.3140	201.476	5
214	0.16	2863.2964	2863.2964	5726.5928	24.9930	24.9930	458.1274	5
215	1.13	2110.8534	2181.4168	4292.2702	22.1931	22.0163	2465.001	5
218	0.02	1354.3317	1376.3226	2730.6543	23.8139	23.7751	27.52645	5
688	0.17	13379.5642	12729.0505	26108.6147	22.5703	23.7465	2163.939	5

223	1.07	637.7067	637.7067	1275.4133	24.9997	24.9997	682.3462	5
232	0.80	202.2295	202.2295	404.4590	24.9771	24.9771	161.7836	5
244	1.32	5305.8975	5305.8975	10611.7949	24.9746	24.9746	7003.785	5
252	0.22	1360.8791	1382.8700	2743.7491	24.5543	24.5394	304.2314	5
255	2.57	651.8304	651.8304	1303.6608	24.7348	24.7348	1675.204	5
639	0.06	4250.0035	4260.9102	8510.9137	24.9841	24.9840	255.6546	5
263	0.57	1150.4078	1150.4078	2300.8157	24.9990	24.9990	655.7324	5
265	0.50	711.7492	711.7492	1423.4983	24.6816	24.6816	355.8746	5
266	1.03	1363.5796	1363.5796	2727.1592	24.9985	24.9985	1404.487	5
268	1.12	924.2404	924.2404	1848.4807	24.9994	24.9994	1035.149	5
270	0.68	924.2404	924.2404	1848.4807	24.4541	24.4541	628.4835	5
272	0.10	1890.8000	1890.8000	3781.6001	24.9971	24.9971	189.08	5
273	0.13	2117.6853	2117.6853	4235.3706	24.9963	24.9963	275.2991	5
655	0.21	13629.8777	13365.4605	26995.3382	22.1324	22.5952	2806.747	5
279	1.26	3595.1711	3595.1711	7190.3423	24.9888	24.9888	4529.916	5
281	0.35	2534.7731	2535.1087	5069.8818	23.8182	23.8179	887.288	5
282	0.10	643.5501	643.1968	1286.7468	24.9305	24.9306	64.31968	5
283	0.06	216.6350	216.6350	433.2700	24.9929	24.9929	12.9981	5
284	0.34	1176.8439	1176.3061	2353.1500	24.9989	24.9989	399.9441	5
286	0.18	721.6539	529.9358	1251.5897	24.9996	24.9998	95.38844	5
287	0.19	238.7742	430.4923	669.2664	25.0000	24.9999	81.79354	5
289	0.36	681.0387	681.0387	1362.0774	24.9997	24.9997	245.1739	5
290	0.03	773.5763	751.7273	1525.3036	24.8978	24.9038	22.55182	5
291	0.55	409.5780	409.5780	819.1559	24.9999	24.9999	225.2679	5
295	1.17	430.9363	430.7757	861.7120	24.9999	24.9999	504.0076	5
298	0.66	3889.8104	3706.1771	7595.9875	24.9868	24.9880	2446.077	5
299	1.40	318.4924	318.3318	636.8241	24.9999	24.9999	445.6645	5
303	1.41	502.2233	502.2233	1004.4467	24.9998	24.9998	708.1349	5
305	0.62	606.9783	606.9783	1213.9567	24.9997	24.9997	376.3265	5
308	0.18	462.3347	462.3347	924.6693	24.9999	24.9999	83.22025	5
311	0.07	1333.9104	1333.9104	2667.8207	23.8495	23.8495	93.37373	5
315	0.15	338.7177	338.7177	677.4355	24.9999	24.9999	50.80766	5
317	0.50	2793.1173	2823.2204	5616.3377	23.1020	23.0621	1411.61	5
318	0.13	570.0687	570.0687	1140.1374	24.9998	24.9998	74.10893	5
319	0.15	1333.9104	1333.9104	2667.8207	24.9986	24.9986	200.0866	5
320	1.22	2745.4434	2775.5465	5520.9899	23.1644	23.1251	3386.167	5
321	0.22	832.0790	832.0790	1664.1581	24.9995	24.9995	183.0574	5

323	1.32	2750.6178	2720.6172	5471.2350	23.1577	23.1966	3591.215	5
324	1.09	405.0564	405.1589	810.2153	24.9017	24.9016	441.6232	5
325	1.42	430.0508	430.0508	860.1016	24.9999	24.9999	610.6721	5
327	0.97	81.4482	81.4482	162.8965	24.9966	24.9966	79.00475	5
330	0.14	1231.7775	1231.7775	2463.5549	24.9988	24.9988	172.4489	5
331	0.58	3229.9697	3228.7056	6458.6753	22.4926	22.4945	1872.649	5
339	0.20	2123.5991	2036.0048	4159.6040	24.1730	24.2408	407.201	5
342	0.35	43.3051	43.3051	86.6103	24.9991	24.9991	15.15679	5
346	0.48	1079.6910	1079.6910	2159.3821	24.9991	24.9991	518.2517	5
347	0.44	1053.1453	1053.1453	2106.2905	24.7379	24.7379	463.3839	5
354	0.20	292.1973	292.1973	584.3947	24.9999	24.9999	58.43946	5
356	0.31	562.9519	562.9519	1125.9038	24.9998	24.9998	174.5151	5
362	6.04	38.3139	38.4164	76.7303	24.9993	24.9993	232.0351	5
366	2.86	153.4653	153.4653	306.9306	24.9871	24.9871	438.9108	5
367	0.27	2153.9531	2066.3588	4220.3119	24.1488	24.2176	557.9169	5
370	2.37	486.8630	486.8630	973.7260	24.8556	24.8556	1153.865	5
371	1.21	486.8630	486.8630	973.7260	24.9998	24.9998	589.1042	5
372	0.79	301.4431	301.4431	602.8863	24.9999	24.9999	238.14	5
373	1.51	479.3530	479.3530	958.7060	24.8602	24.8602	723.823	5
374	0.36	301.4431	301.4431	602.8863	24.9470	24.9470	108.5195	5
375	0.01	301.4431	301.4431	602.8863	24.9470	24.9470	3.014431	5
376	0.71	650.7367	650.7367	1301.4734	24.9997	24.9997	462.0231	5
381	1.19	344.9106	344.9106	689.8212	24.9999	24.9999	410.4436	5
388	0.41	205.1669	205.1669	410.3337	24.9764	24.9764	84.11843	5
637	0.06	3891.4548	3891.4548	7782.9097	24.9868	24.9868	233.4873	5
649	0.12	2110.8534	2181.4168	4292.2702	22.1931	22.0163	261.77	5
638	0.04	2231.6384	2231.6384	4463.2769	24.9959	24.9959	89.26554	5
761	0.14	1085.2900	1071.1498	2156.4398	24.7210	24.7285	149.961	5
403	0.26	4912.6714	4912.6714	9825.3428	24.9784	24.9784	1277.295	5
408	0.10	1294.1468	1294.1468	2588.2936	24.9987	24.9987	129.4147	5
410	0.05	1593.8392	1593.8392	3187.6785	24.9980	24.9980	79.69196	5
412	0.04	2602.4551	2602.4551	5204.9102	24.9943	24.9943	104.0982	5
414	0.03	418.0602	418.0602	836.1205	24.9999	24.9999	12.54181	5
415	0.06	1590.8801	1590.8801	3181.7603	24.9980	24.9980	95.45281	5
416	0.06	3802.7352	3888.4507	7691.1859	22.3956	22.2843	233.307	5
417	0.18	708.6672	708.6672	1417.3345	24.9996	24.9996	127.5601	5
421	0.09	2509.5872	2509.5872	5019.1743	24.9947	24.9947	225.8628	5

422	0.27	2781.4793	2804.5613	5586.0406	20.3956	20.3301	757.2316	5
423	0.28	1684.0299	1707.1119	3391.1418	23.1760	23.1271	477.9913	5
426	0.21	396.2905	382.2226	778.5131	24.9748	24.9767	80.26675	5
745	0.13	729.3040	729.3040	1458.6079	24.9996	24.9996	94.80952	5
428	0.34	396.2905	382.2226	778.5131	24.9748	24.9767	129.9557	5
432	0.23	2253.2070	2253.2070	4506.4141	24.9958	24.9958	518.2376	5
435	0.15	4455.0542	4455.0542	8910.1084	24.9824	24.9824	668.2581	5
436	2.26	13045.7607	13045.7607	26091.5215	24.8331	24.8331	29483.42	5
437	1.62	13045.7607	13045.7607	26091.5215	23.1670	23.1670	21134.13	5
439	1.43	13045.7607	13045.7607	26091.5215	23.1670	23.1670	18655.44	5
440	0.39	479.3530	479.3530	958.7060	24.9998	24.9998	186.9477	5
443	0.96	407.2539	407.2539	814.5079	24.9999	24.9999	390.9637	5
447	0.51	1616.5173	1616.5173	3233.0347	24.9979	24.9979	824.4238	5
448	1.33	1616.5173	1616.5173	3233.0347	23.3161	23.3161	2149.968	5
449	1.16	16894.4112	16924.4735	33818.8847	23.7639	23.7135	19632.39	5
450	0.55	926.5800	926.5800	1853.1599	24.4512	24.4512	509.619	5
452	0.70	926.5800	926.5800	1853.1599	24.9994	24.9994	648.606	5
454	0.97	434.6354	434.6354	869.2707	24.8861	24.8861	421.5963	5
455	0.58	434.6354	434.6354	869.2707	24.9999	24.9999	252.0885	5
456	0.57	775.6463	775.6463	1551.2926	24.9996	24.9996	442.1184	5
459	1.95	243.9526	243.9526	487.9052	24.9877	24.9877	475.7076	5
465	0.67	17078.1918	17094.0360	34172.2278	23.4577	23.4315	11453	5
466	0.46	17223.7194	17253.7814	34477.5008	23.2183	23.1692	7936.739	5
467	0.07	1575.0969	1560.8791	3135.9759	24.5515	24.5598	109.2615	5
468	0.22	1175.9160	1175.9160	2351.8320	24.1075	24.1075	258.7015	5
469	0.80	1175.9160	1175.9160	2351.8320	24.9989	24.9989	940.7328	5
470	3.99	166.0027	166.1968	332.1995	24.9945	24.9945	663.1252	5
473	0.10	987.6254	987.6254	1975.2507	24.9993	24.9993	98.76254	5
475	0.19	465.3377	465.3377	930.6754	24.9998	24.9998	88.41416	5
477	0.22	2116.8103	2116.8103	4233.6207	24.9963	24.9963	465.6983	5
479	0.07	3888.4797	3888.4797	7776.9595	24.9868	24.9868	272.1936	5
483	0.09	1653.1104	1653.1104	3306.2207	24.9978	24.9978	148.7799	5
485	0.03	458.1430	458.1430	916.2861	24.9999	24.9999	13.74429	5
486	0.14	429.5950	429.5950	859.1899	24.9702	24.9702	60.1433	5
488	0.22	1713.2626	1713.2626	3426.5251	24.9976	24.9976	376.9178	5
490	0.02	2871.3371	2657.7700	5529.1071	23.4860	23.7010	53.1554	5
491	0.02	1613.3325	1613.3325	3226.6650	24.9979	24.9979	32.26665	5

495	1.25	115.6056	115.6056	231.2112	24.9929	24.9929	144.507	5
496	0.01	2297.0224	2226.4591	4523.4815	21.7194	21.9017	22.26459	5
497	0.40	446.0663	446.0663	892.1327	24.9999	24.9999	178.4265	5
498	0.75	1966.2824	1895.7190	3862.0013	22.5434	22.7083	1421.789	5
501	0.11	1216.1314	1215.7781	2431.9094	24.7375	24.7376	133.7356	5
502	0.47	91.4327	91.4327	182.8655	24.9988	24.9988	42.97337	5
503	0.17	572.5813	572.5813	1145.1627	24.9998	24.9998	97.33882	5
504	0.13	849.9390	849.9390	1699.8781	24.9995	24.9995	110.4921	5
666	0.22	8329.2783	8329.2783	16658.5566	24.9347	24.9347	1832.441	5
509	0.01	810.0797	810.0797	1620.1594	24.5839	24.5839	8.100797	5
513	0.16	810.0797	810.0797	1620.1594	24.9995	24.9995	129.6128	5
515	0.20	14864.5391	14880.4405	29744.9796	20.0930	20.0680	2976.088	5
517	0.15	955.2553	955.0622	1910.3175	24.9993	24.9993	143.2593	5
519	0.08	585.5001	585.5001	1171.0001	24.9998	24.9998	46.84001	5
524	0.39	1289.3285	1212.2974	2501.6259	24.7036	24.7392	472.796	5
525	0.16	364.2867	364.2867	728.5733	24.9999	24.9999	58.28587	5
528	0.17	2220.4841	2220.4841	4440.9683	24.9959	24.9959	377.4823	5
531	0.71	1328.1252	1328.1252	2656.2505	24.9986	24.9986	942.9689	5
533	0.13	1874.4968	1860.4289	3734.9257	24.3587	24.3685	241.8558	5
535	0.10	3685.9793	3771.6948	7457.6741	22.5444	22.4355	377.1695	5
538	0.45	157.0756	157.0756	314.1513	24.9865	24.9865	70.68402	5
546	0.84	246.3623	248.5450	494.9073	24.9653	24.9647	208.7778	5
553	0.31	652.2660	651.5614	1303.8274	24.7344	24.7350	201.984	5
554	1.46	652.2660	651.5614	1303.8274	24.9997	24.9997	951.2796	5
569	1.64	1656.9625	1656.9625	3313.9250	24.9978	24.9978	2717.419	5
570	1.23	1186.5669	1186.5669	2373.1338	24.9989	24.9989	1459.477	5
578	0.69	2038.3500	2221.9833	4260.3334	24.9966	24.9959	1533.168	5
579	1.21	14427.2271	14411.3252	28838.5523	20.7925	20.8184	17437.7	5
581	1.61	13809.0840	13834.2241	27643.3081	21.8240	21.7811	22273.1	5
590	0.03	2979.9604	2979.9604	5959.9207	23.3712	23.3712	89.39881	5
592	0.15	961.4479	960.9101	1922.3580	24.9993	24.9993	144.1365	5
598	0.82	4611.1953	4611.1953	9222.3906	24.9811	24.9811	3781.18	5
600	0.04	12555.4587	12100.2716	24655.7303	24.0697	24.9350	484.0109	5
601	0.21	13379.5642	12729.0505	26108.6147	22.5703	23.7465	2673.101	5
618	0.25	1455.8167	1651.1435	3106.9602	23.6302	23.2448	412.7859	5
622	0.23	1533.6123	1548.8680	3082.4803	23.4816	23.4517	356.2396	5
623	0.22	1533.6123	1548.8680	3082.4803	23.4816	23.4517	340.751	5

633	0.17	9506.9277	9506.9277	19013.8555	24.9138	24.9138	1616.178	5
625	0.05	1978.5433	1868.5776	3847.1209	22.5144	22.7705	93.42888	5
627	0.08	2145.2446	2035.2791	4180.5237	22.1074	22.3783	162.8223	5
628	0.04	2231.6384	2231.6384	4463.2769	21.8884	21.8884	89.26554	5
631	0.04	1951.9627	1852.9038	3804.8664	22.5772	22.8062	74.11615	5
630	0.33	1852.9038	1951.9627	3804.8664	22.8062	22.5772	644.1477	5
632	0.04	1951.9627	1852.9038	3804.8664	22.5772	22.8062	74.11615	5
643	0.04	808.2177	808.2177	1616.4353	24.9995	24.9995	32.32871	5
658	0.13	1286.5419	1286.5419	2573.0837	24.9987	24.9987	167.2504	5
665	0.08	11110.7871	11110.7871	22221.5742	24.8806	24.8806	888.863	5
698	0.46	4088.3154	4088.3154	8176.6309	24.9853	24.9853	1880.625	5
696	0.16	562.7064	562.7064	1125.4128	24.9998	24.9998	90.03302	5
672	1.86	1731.1589	1922.3009	3653.4598	24.9976	24.9970	3575.48	5
674	2.55	2357.1564	2166.0145	4523.1709	24.9954	24.9961	5523.337	5
706	0.16	451.2728	451.2728	902.5456	24.9554	24.9554	72.20365	5
707	0.09	564.5409	564.5409	1129.0818	24.9287	24.9287	50.80868	5
708	0.08	6626.9662	6635.7578	13262.7239	20.3706	20.3601	530.8606	5
710	0.06	2853.5759	2839.4796	5693.0555	23.0216	23.0405	170.3688	5
715	0.18	795.8736	781.7335	1577.6071	24.8538	24.8591	140.712	5
712	0.16	1791.2985	1791.2985	3582.5970	24.2172	24.2172	286.6078	5
713	0.04	2615.8145	2601.6743	5217.4888	23.3299	23.3475	104.067	5
748	0.12	3433.4243	3433.4243	6866.8486	24.9898	24.9898	412.0109	5
726	0.16	6550.3072	6559.0986	13109.4058	20.4621	20.4516	1049.456	5
727	0.21	548.0374	548.0812	1096.1186	24.9330	24.9330	115.0971	5
728	0.14	113.2682	113.2682	226.5363	24.9975	24.9975	15.85755	5
729	0.33	501.1785	501.1785	1002.3569	24.9444	24.9444	165.3889	5
747	0.23	2998.2187	2984.1224	5982.3410	22.8240	22.8436	686.3482	5
732	0.18	1021.3533	1021.3533	2042.7067	24.9992	24.9992	183.8436	5
831	0.23	2563.1307	2574.0271	5137.1578	23.3953	23.3818	592.0262	5
770	0.15	10771.3027	10771.3027	21542.6055	24.8881	24.8881	1615.695	5
819	0.49	1228.0938	1213.9537	2442.0475	24.6395	24.6481	594.8373	5
778	0.27	2294.4851	2294.4851	4588.9702	24.9956	24.9956	619.511	5
789	0.10	933.9479	933.9479	1867.8958	24.9993	24.9993	93.39479	5
780	0.46	1191.8147	1191.8147	2383.6294	24.9989	24.9989	548.2348	5
791	0.20	1964.7444	1964.7444	3929.4888	24.9968	24.9968	392.9489	5
785	0.12	1354.7063	1354.7063	2709.4126	24.9986	24.9986	162.5648	5
795	0.22	5019.7207	5019.7207	10039.4414	24.9774	24.9774	1104.339	5

797	0.13	2209.2944	2209.2944	4418.5889	24.9960	24.9960	287.2083	5
799	0.04	742.4614	742.4614	1484.9227	24.9996	24.9996	29.69846	5
800	0.12	742.4614	742.4614	1484.9227	24.9996	24.9996	89.09537	5
803	0.14	1134.6215	1134.6215	2269.2429	24.6941	24.6941	158.847	5
830	0.40	1423.8785	1434.7748	2858.6533	24.5108	24.5030	573.9099	5
817	0.14	1813.5353	1813.5353	3627.0706	24.9973	24.9973	253.8949	5
814	0.03	2430.3513	2430.3513	4860.7026	23.5551	23.5551	72.91054	5
815	0.13	2615.8145	2601.6743	5217.4888	23.3299	23.3475	338.2177	5
816	0.31	666.9208	666.9208	1333.8416	24.9997	24.9997	206.7454	5
826	0.21	634.4818	645.3781	1279.8598	24.9089	24.9056	135.5294	5
823	0.37	280.4289	280.3955	560.8244	24.9836	24.9836	103.7463	5
829	0.70	1861.1443	1861.1443	3722.2886	24.9972	24.9972	1302.801	5
828	0.22	113.2682	113.2682	226.5363	24.9975	24.9975	24.919	5
833	0.14	399.4706	399.4706	798.9412	24.9999	24.9999	55.92588	5
835	0.15	2116.8103	2116.8103	4233.6207	24.9963	24.9963	317.5215	5
839	0.11	1964.7444	1964.7444	3929.4888	24.9968	24.9968	216.1219	5
							433693.5	
							5 Total	
4	5.63	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
8	1.35	192.1296	192.1296	384.2592	25.0000	25.0000	259.375	6
9	2.20	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
10	1.90	40.6403	40.6403	81.2806	25.0000	25.0000	77.21657	6
11	2.98	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
13	3.04	208.5945	208.5945	417.1890	25.0000	25.0000	634.1273	6
18	0.78	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
36	3.27	233.5679	233.5679	467.1359	25.0000	25.0000	763.767	6
53	3.45	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
54	4.91	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
59	0.68	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
63	0.12	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
69	0.22	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
81	1.54	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
91	0.74	199.2369	199.2369	398.4738	25.0000	25.0000	147.4353	6
95	0.44	237.4880	237.4880	474.9759	25.0000	25.0000	104.4947	6
96	0.76	214.0484	214.0484	428.0968	25.0000	25.0000	162.6768	6
100	0.82	129.8419	130.4122	260.2541	25.0000	25.0000	106.938	6
101	0.63	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
115	0.14	0.0000	0.0000	0.0000	25.0000	25.0000	0	6

132	0.78	86.3199	86.3199	172.6398	25.0000	25.0000	67.32952	6
135	1.89	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
136	1.05	190.7065	190.7065	381.4130	25.0000	25.0000	200.2418	6
142	1.46	108.6971	108.6971	217.3942	25.0000	25.0000	158.6978	6
143	1.60	630.4840	624.5398	1255.0238	29.8134	29.8171	999.2637	6
144	0.25	206.5536	206.5536	413.1072	25.0000	25.0000	51.6384	6
145	2.51	556.8307	550.8865	1107.7172	29.8561	29.8593	1382.725	6
166	0.11	120.4014	120.4014	240.8027	25.0000	25.0000	13.24415	6
647	0.45	1516.7644	1516.7644	3033.5288	28.8588	28.8588	682.544	6
172	1.41	188.7891	189.3977	378.1868	25.0000	25.0000	267.0508	6
173	1.39	47.4198	48.0284	95.4482	25.0000	25.0000	66.75948	6
177	0.31	122.9607	122.9607	245.9215	25.0000	25.0000	38.11782	6
183	0.40	243.2885	243.2885	486.5770	25.0000	25.0000	97.3154	6
184	0.28	5002.6463	4869.3824	9872.0287	27.3572	27.6905	1363.427	6
188	0.57	9453.1014	10075.0961	19528.1976	30.4230	29.0745	5742.805	6
750	0.36	1504.5277	1503.9190	3008.4467	29.3425	29.3430	541.4108	6
193	0.26	9838.9573	10583.2804	20422.2377	29.5831	27.9959	2751.653	6
212	0.18	20366.3653	20212.5078	40578.8732	28.8432	29.0077	3638.251	6
224	1.47	140.0352	140.0352	280.0703	25.0000	25.0000	205.8517	6
225	3.02	1517.6762	1533.3374	3051.0136	29.3306	29.3164	4630.679	6
227	1.14	1999.3313	2020.5621	4019.8934	28.8264	28.8012	2303.441	6
230	0.43	202.2295	202.2295	404.4590	25.0000	25.0000	86.95869	6
236	0.64	118.5625	118.5625	237.1250	25.0000	25.0000	75.88	6
242	2.22	27.9025	11.2409	39.1434	25.0000	25.0000	24.9548	6
243	2.22	45.0806	28.4191	73.4998	25.0000	25.0000	63.0904	6
253	1.25	47.3003	47.3003	94.6005	25.0000	25.0000	59.12538	6
259	0.29	15971.9934	15884.7881	31856.7815	25.3661	25.5233	4606.589	6
640	0.17	44.6347	33.7280	78.3627	25.0000	25.0000	5.73376	6
280	0.13	169.4245	169.4245	338.8491	25.0000	25.0000	22.02519	6
297	3.96	270.3621	270.3797	540.7418	29.9817	29.9817	1070.704	6
304	0.89	10532.0922	10392.1610	20924.2532	28.1034	28.3988	9249.023	6
306	0.14	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
322	0.12	81.4482	81.4482	162.8965	25.0000	25.0000	9.773784	6
328	1.77	37.8134	37.8134	75.6267	25.0000	25.0000	66.92972	6
329	0.34	10907.4086	10821.0784	21728.4871	27.3207	27.4995	3679.167	6
333	0.07	10907.4086	10821.0784	21728.4871	27.3207	27.4995	757.4755	6
337	0.53	43.3051	43.3051	86.6103	25.0000	25.0000	22.9517	6

340	0.12	161.8522	161.8522	323.7044	25.0000	25.0000	19.42226	6
353	0.57	227.5134	227.5134	455.0267	25.0000	25.0000	129.6826	6
360	1.52	165.0429	165.0429	330.0858	25.0000	25.0000	250.8652	6
364	0.68	192.9765	192.9765	385.9529	25.0000	25.0000	131.224	6
365	1.37	153.4653	153.4653	306.9306	25.0000	25.0000	210.2475	6
369	1.94	127.3318	127.3318	254.6636	25.0000	25.0000	247.0237	6
389	0.11	205.1669	205.1669	410.3337	25.0000	25.0000	22.56836	6
773	0.05	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
399	1.17	1635.8714	1651.5327	3287.4041	29.2194	29.2041	1932.293	6
409	0.09	116.7559	116.7559	233.5118	25.0000	25.0000	10.50803	6
752	0.16	164.5348	164.5348	329.0696	25.0000	25.0000	26.32557	6
755	0.15	234.6411	234.6411	469.2823	25.0000	25.0000	35.19617	6
429	0.24	188.3051	188.3051	376.6101	25.0000	25.0000	45.19322	6
431	0.58	1516.7644	1516.7644	3033.5288	28.8588	28.8588	879.7234	6
438	0.17	131.1435	128.8471	259.9907	25.0000	25.0000	21.90401	6
441	4.65	31.0634	31.0811	62.1445	29.9998	29.9998	144.5271	6
451	0.78	15967.8312	15997.8935	31965.7247	25.3736	25.3196	12478.36	6
458	0.54	243.9526	243.9526	487.9052	25.0000	25.0000	131.7344	6
472	0.61	4358.1356	4598.4149	8956.5505	25.9776	25.5687	2805.033	6
476	0.05	23448.7159	23161.5947	46610.3106	25.6690	25.9538	1158.08	6
481	0.25	23466.0533	23178.9320	46644.9854	25.6519	25.9365	5794.733	6
482	0.06	10980.5595	11267.6631	22248.2226	27.1698	26.5831	676.0598	6
484	0.17	10148.9177	10436.0212	20584.9389	28.9164	28.3060	1774.124	6
487	0.16	9902.6778	10189.7816	20092.4594	29.4455	28.8291	1630.365	6
506	0.44	19962.1226	20271.4425	40233.5651	29.2765	28.9446	8919.435	6
636	0.00	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
508	0.01	20266.9995	20576.3194	40843.3188	28.9494	28.6194	205.7632	6
510	0.15	20266.9995	20576.3194	40843.3188	28.9494	28.6194	3086.448	6
526	0.84	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
529	0.21	9785.5829	9734.6686	19520.2515	29.6987	29.8091	2044.28	6
530	0.26	11783.9650	11804.6983	23588.6633	25.5515	25.5107	3069.222	6
532	0.17	11254.0795	11288.8807	22542.9602	26.6107	26.5401	1919.11	6
534	0.06	10859.4720	10894.2731	21753.7451	27.4199	27.3478	653.6564	6
537	0.32	157.0756	157.0756	314.1513	25.0000	25.0000	50.26419	6
547	1.54	248.5450	246.3623	494.9073	25.0000	25.0000	379.3979	6
550	0.95	0.0846	0.0846	0.1691	25.0000	25.0000	0.08037	6
551	1.15	253.4948	255.6775	509.1722	25.0000	25.0000	294.0291	6

558	3.56	107.2319	106.5273	213.7592	25.0000	25.0000	379.2372	6
559	3.19	2.0891	2.0891	4.1781	25.0000	25.0000	6.664229	6
563	0.67	91.0603	91.0603	182.1207	25.0000	25.0000	61.0104	6
744	0.07	207.1639	207.1639	414.3278	25.0000	25.0000	14.50147	6
585	0.36	905.6158	788.9693	1694.5851	29.8296	29.8722	284.0289	6
587	0.17	1499.8539	1383.2075	2883.0614	29.5135	29.5885	235.1453	6
595	0.28	3967.5437	3724.6540	7692.1976	26.9671	27.7587	1042.903	6
596	0.38	11306.1948	10640.4255	21946.6203	26.5051	27.8761	4043.362	6
602	0.20	9453.1014	10440.3141	19893.4155	30.4230	28.2969	2088.063	6
603	0.26	11120.1958	11864.5187	22984.7144	26.8834	25.3933	3084.775	6
686	0.03	23615.3214	23328.2000	46943.5214	25.5049	25.7882	699.846	6
741	0.00	11426.1630	11428.1363	22854.2993	29.1813	29.1769	0	6
751	0.20	1328.1252	1328.1252	2656.2505	29.4914	29.4914	265.625	6
763	0.18	161.7485	159.4521	321.2006	25.0000	25.0000	28.70138	6
775	0.03	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
776	0.04	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
781	0.54	101.9165	101.9165	203.8331	25.0000	25.0000	55.03491	6
783	0.04	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
802	0.08	0.0000	0.0000	0.0000	25.0000	25.0000	0	6
810	1.50	1546.9724	1562.6337	3109.6061	29.3039	29.2893	2343.951	6
837	0.14	195.7482	195.7482	391.4964	25.0000	25.0000	27.40475	6
845	0.16	11426.1630	11428.1363	22854.2993	29.1813	29.1769	1828.502	6
							114924.5	
								6 Total
26	7.69	11931.0957	11931.0957	23862.1914	33.6772	33.6772	91750.13	7
27	0.73	1656.9625	1656.9625	3313.9250	34.0652	34.0652	1209.583	7
33	0.75	428.2075	428.2075	856.4150	34.9586	34.9586	321.1556	7
56	1.31	2855.8888	2913.6152	5769.5041	32.9028	32.8184	3816.836	7
60	1.75	2542.3197	2600.0461	5142.3657	33.3357	33.2593	4550.081	7
65	0.73	392.7776	392.7776	785.5553	34.9191	34.9191	286.7276	7
79	0.38	1200.2381	1200.2381	2400.4762	34.5187	34.5187	456.0905	7
83	1.07	1200.2381	1200.2381	2400.4762	34.1734	34.1734	1284.255	7
90	3.07	1961.8169	1874.0285	3835.8453	34.0146	34.1026	5753.267	7
94	0.25	505.6650	491.4472	997.1122	34.9413	34.9447	122.8618	7
97	0.27	214.0484	214.0484	428.0968	34.9774	34.9774	57.79307	7
99	1.73	325.2803	311.0625	636.3428	34.9767	34.9788	538.1381	7
103	1.13	0.0000	0.0000	0.0000	30.0000	30.0000	0	7
104	2.17	2698.6030	2771.0996	5469.7026	33.1254	33.0242	6013.286	7

108	0.55	492.0196	492.0196	984.0392	34.8704	34.8704	270.6108	7
117	2.24	11541.2118	11572.3818	23113.5937	34.5807	34.5079	25922.14	7
119	5.31	1949.7959	1862.0075	3811.8034	34.0269	34.1144	9887.26	7
131	3.51	11916.1133	11916.1133	23832.2266	33.7116	33.7116	41825.56	7
165	0.19	7354.3742	7396.5250	14750.8992	35.0791	34.9859	1405.34	7
174	0.86	6207.8569	6249.5294	12457.3863	33.3855	33.3076	5374.595	7
181	2.59	12901.1137	13031.4151	25932.5288	31.4988	31.2143	33751.37	7
186	2.76	12907.8030	13038.1044	25945.9073	31.4841	31.1997	35985.17	7
187	0.23	1522.8417	1445.8105	2968.6522	34.2136	34.2932	332.5364	7
197	0.36	7466.9997	7768.7766	15235.7763	34.8300	34.1602	2796.76	7
200	0.11	18736.6824	19146.3449	37883.0273	30.6088	30.1606	2106.098	7
213	0.05	19218.4513	19054.9632	38273.4144	30.0820	30.2604	952.7482	7
216	0.07	6247.9612	6290.2423	12538.2035	33.3105	33.2313	440.317	7
219	0.97	1354.3317	1376.3226	2730.6543	34.3822	34.3614	1335.033	7
221	2.07	1799.0194	1731.2260	3530.2454	33.8945	33.9777	3583.638	7
234	0.85	960.1984	961.1405	1921.3389	34.6972	34.6966	816.9694	7
756	0.66	1681.4017	1681.9135	3363.3152	34.0368	34.0362	1110.063	7
239	0.25	13269.1491	13291.6439	26560.7929	30.7005	30.6523	3322.911	7
245	0.71	925.5058	926.4479	1851.9537	34.7196	34.7190	657.778	7
248	3.09	1354.3317	1376.3226	2730.6543	34.3822	34.3614	4252.837	7
250	0.84	13488.4791	13511.3490	26999.8280	30.2327	30.1842	11349.53	7
251	0.03	1360.8791	1382.8700	2743.7491	34.3761	34.3551	41.4861	7
254	0.59	12169.1413	12170.0198	24339.1611	33.1331	33.1311	7180.312	7
258	0.84	12820.8401	12821.7189	25642.5590	31.6750	31.6731	10770.24	7
262	0.40	11106.1322	11019.8021	22125.9343	29.9023	30.0990	4407.921	7
264	1.56	10480.6338	10394.3035	20874.9372	34.4811	34.7041	16215.11	7
656	0.05	15904.2643	16079.5051	31983.7694	33.7520	33.5568	803.9753	7
288	0.68	816.9221	795.0731	1611.9953	34.8397	34.8485	540.6497	7
292	1.85	216.5928	202.5248	419.1176	34.9866	34.9884	374.6709	7
294	1.58	8708.0294	8366.1889	17074.2183	33.9156	34.6031	13218.58	7
310	0.21	7571.5660	7597.6827	15169.2486	34.5983	34.5404	1595.513	7
312	1.34	7754.2753	7780.3921	15534.6674	34.1925	34.1344	10425.73	7
313	0.05	7711.1767	7737.2935	15448.4702	34.2883	34.2303	386.8647	7
314	0.01	365.8577	365.8577	731.7154	34.9598	34.9598	3.658577	7
316	0.91	27.8284	27.8284	55.6567	34.9998	34.9998	25.32384	7
326	0.87	61.4538	61.4538	122.9075	34.9990	34.9990	53.46481	7
348	1.73	227.5134	227.5134	455.0267	34.9743	34.9743	393.5982	7

352	1.47	292.1973	292.1973	584.3947	34.9565	34.9565	429.53	7
357	0.56	2704.3461	2790.0616	5494.4076	33.1175	32.9973	1562.434	7
358	0.62	66.6161	52.5302	119.1463	34.9989	34.9993	32.56872	7
359	0.25	2563.2558	2648.9714	5212.2272	33.3081	33.1934	662.2429	7
361	2.91	2620.0417	2691.6713	5311.7130	33.2325	33.1350	7832.763	7
363	3.04	160.8105	160.8285	321.6390	34.9928	34.9928	488.9186	7
368	1.95	2000.4877	1912.8934	3913.3812	33.9746	34.0642	3730.142	7
385	0.78	9190.9648	9209.2531	18400.2179	34.4432	34.3984	7183.217	7
392	0.32	1461.3651	1459.8686	2921.2336	34.2775	34.2790	467.158	7
394	0.15	5107.5016	5112.2067	10219.7083	30.9643	30.9508	766.831	7
411	0.12	8814.4398	8763.5255	17577.9653	31.8318	31.9448	1051.623	7
413	0.08	471.0700	471.0700	942.1401	34.9317	34.9317	37.6856	7
418	0.47	7742.6851	7423.9266	15166.6118	34.2183	34.9254	3489.246	7
424	0.17	7742.6851	7423.9266	15166.6118	34.2183	34.9254	1262.068	7
425	0.86	9027.2132	8685.3727	17712.5858	33.2720	33.9613	7469.421	7
430	1.51	3208.8084	3294.5240	6503.3324	32.3652	32.2271	4974.731	7
444	2.05	1136.4704	1076.2225	2212.6929	34.6808	34.7150	2206.256	7
453	0.86	9458.8184	9379.1351	18837.9535	30.4105	30.5851	8066.056	7
457	1.69	9026.9355	8947.2522	17974.1877	31.3610	31.5373	15120.86	7
460	4.60	2658.3556	2730.0877	5388.4433	33.1806	33.0817	12558.4	7
461	1.02	1129.8147	1069.5668	2199.3815	34.6846	34.7186	1090.958	7
462	0.38	7810.4705	7905.9980	15716.4686	34.0675	33.8548	3004.279	7
463	0.53	9270.8880	9191.2048	18462.0929	30.8229	30.9984	4871.339	7
464	5.48	35.4359	35.4539	70.8898	34.9997	34.9997	194.2874	7
471	0.23	2748.9515	2821.2539	5570.2054	33.0553	32.9528	648.8884	7
689	0.19	19016.9060	18970.0644	37986.9704	30.3020	30.3532	3604.312	7
478	0.23	16488.7040	16488.6863	32977.3903	33.1006	33.1007	3792.398	7
480	0.28	14971.6230	14971.6052	29943.2282	34.7884	34.7884	4192.049	7
489	0.01	9032.1033	9319.2071	18351.3103	31.3496	30.7167	93.19207	7
493	0.42	1456.5939	1243.0268	2699.6207	34.4657	34.6154	522.0713	7
511	0.02	18118.0161	18500.4478	36618.4639	31.2901	30.8684	370.009	7
514	0.15	18118.0161	18500.4478	36618.4639	31.2901	30.8684	2775.067	7
527	0.16	8675.4319	8624.5177	17299.9496	32.1405	32.2538	1379.923	7
541	1.05	58.7428	58.7428	117.4856	34.9991	34.9991	61.67994	7
542	0.88	653.6689	652.9643	1306.6332	34.7653	34.7658	574.6086	7
543	1.04	157.0756	157.0756	314.1513	34.9882	34.9882	163.3586	7
545	0.53	4225.6505	4195.5884	8421.2389	30.5645	30.6222	2223.662	7

548	2.73	3979.2882	3947.0435	7926.3317	31.0306	31.0903	10775.43	7
555	7.76	60.1457	60.1458	120.2915	34.9991	34.9991	466.7314	7
557	2.51	3979.3728	3947.1281	7926.5009	31.0304	31.0901	9907.292	7
560	1.17	13248.4708	13249.1752	26497.6460	30.7450	30.7434	15501.53	7
561	1.69	13294.9070	13294.9069	26589.8139	30.6453	30.6453	22468.39	7
562	8.32	62.2348	62.2348	124.4696	34.9990	34.9990	517.7935	7
564	0.07	1186.5669	1186.5669	2373.1338	34.5300	34.5300	83.05968	7
565	8.44	12120.0808	12120.0807	24240.1615	33.2447	33.2447	102293.5	7
566	5.27	28.8255	28.8256	57.6511	34.9998	34.9998	151.9109	7
567	2.05	12100.7578	12100.7578	24201.5156	33.2888	33.2888	24806.55	7
582	4.19	1579.0739	1511.2805	3090.3544	34.1529	34.2258	6332.265	7
583	7.77	1190.0889	1299.7146	2489.8035	34.5271	34.4326	10098.78	7
586	1.07	18315.3720	18151.8836	36467.2557	31.0722	31.2527	19422.52	7
588	0.47	8723.3294	8988.5841	17711.9135	32.0341	31.4458	4224.635	7
589	0.72	2960.4109	2960.9487	5921.3596	32.7489	32.7481	2131.883	7
591	0.33	3048.5479	3048.5479	6097.0958	32.6156	32.6156	1006.021	7
599	0.17	14880.4405	14864.5391	29744.9796	34.8893	34.9069	2526.972	7
604	0.15	16895.6389	17206.2430	34101.8819	32.6472	32.3014	2580.936	7
704	0.47	1398.5939	1397.0974	2795.6913	34.3399	34.3414	656.6358	7
724	0.26	3329.3627	3327.8662	6657.2288	31.2835	31.2866	865.2452	7
734	0.44	1818.6674	1819.1457	3637.8131	33.8698	33.8692	800.4241	7
740	0.16	4461.5063	4464.7147	8926.2210	32.7958	32.7868	714.3544	7
742	0.01	9190.9648	9209.2531	18400.2179	34.4432	34.3984	92.09253	7
743	0.43	9165.6980	9182.0131	18347.7111	34.5051	34.4651	3948.266	7
764	0.59	4461.5063	4464.7147	8926.2210	32.7958	32.7868	2634.182	7
805	0.29	7097.6450	7139.7958	14237.4407	31.6836	31.6014	2070.541	7
820	0.23	2430.3513	2430.3513	4860.7026	32.9771	32.9771	558.9808	7
842	0.47	2159.7080	2158.2115	4317.9196	33.4010	33.4032	1014.359	7
							727682.1	7 Total
28	11.73	10492.4385	10492.4385	20984.8770	37.0766	37.0766	123076.3	
37	11.37	9891.5859	9891.5859	19783.1719	38.5395	38.5395	112467.3	8
41	2.49	10125.1533	10125.1533	20250.3066	37.9687	37.9687	25211.63	8
67	3.21	4368.9980	4368.9980	8737.9961	38.9391	38.9391	14024.48	8
70	0.88	4705.0177	4705.0178	9410.0355	36.0134	36.0134	4140.416	8
76	0.20	11274.1913	11305.3614	22579.5527	35.2077	35.1342	2261.072	8
78	0.08	10575.2318	10606.4016	21181.6335	36.8766	36.8014	848.5121	8
80	0.94	5202.0557	5202.0557	10404.1113	35.1900	35.1900	4889.932	8

82	1.46	10089.4580	10119.5199	20208.9779	38.0557	37.9824	14774.5	8
85	1.11	5202.0557	5202.0557	10404.1113	35.1900	35.1900	5774.282	8
87	0.81	10089.4580	10119.5199	20208.9779	38.0557	37.9824	8196.811	8
111	1.24	5053.1918	5052.0838	10105.2756	35.4421	35.4440	6264.584	8
114	0.47	4705.0177	4705.0178	9410.0355	36.0134	36.0134	2211.358	8
148	3.73	10980.0029	10980.0029	21960.0059	35.9056	35.9056	40955.41	8
150	1.79	1416.7255	1411.8431	2828.5686	39.2253	39.2308	2527.199	8
151	2.01	9683.7915	9688.6709	19372.4625	39.0491	39.0371	19474.23	8
182	1.48	1319.8682	1429.4939	2749.3621	39.3306	39.2109	2115.651	8
189	0.68	7611.1016	7119.4081	14730.5097	34.5106	35.5964	4841.198	8
203	0.26	14550.3609	14698.2804	29248.6412	35.2538	35.0906	3821.553	8
217	0.92	4698.7647	4808.8393	9507.6040	36.0234	35.8459	4424.132	8
226	1.25	570.1162	564.1721	1134.2883	39.8835	39.8861	705.2151	8
228	0.53	1559.5368	1574.8234	3134.3603	39.0563	39.0372	834.6564	8
231	1.23	116.3564	115.9818	232.3382	39.9958	39.9959	142.6576	8
238	1.34	246.2013	245.8266	492.0279	39.9800	39.9800	329.4076	8
241	2.23	4904.1036	4901.8975	9806.0012	37.5503	37.5562	10931.23	8
246	3.28	5305.8975	5305.8975	10611.7949	36.4648	36.4648	17403.34	8
247	1.46	1187.6219	1186.3578	2373.9798	39.4619	39.4631	1732.082	8
267	1.56	1477.9556	1476.6915	2954.6472	39.1548	39.1563	2303.639	8
269	1.48	2041.8173	2040.5533	4082.3706	38.3675	38.3695	3020.019	8
285	0.46	5948.3872	6022.4615	11970.8487	38.0990	37.9458	2770.332	8
293	0.20	582.7569	564.4808	1147.2376	39.9096	39.9155	112.8962	8
296	0.26	5776.3102	6042.1025	11818.4127	38.4516	37.9050	1570.947	8
300	1.36	2804.7403	2602.8308	5407.5711	37.6873	38.0064	3539.85	8
301	1.22	8277.0932	7935.4132	16212.5064	34.7818	35.4640	9681.204	8
302	0.70	2819.2489	2617.5002	5436.7490	37.6636	37.9839	1832.25	8
309	0.17	6275.5757	6301.6924	12577.2681	37.4161	37.3610	1071.288	8
753	0.26	7703.0606	7711.3298	15414.3904	38.1182	38.0978	2004.946	8
341	1.12	5052.2280	5052.2280	10104.4561	37.1537	37.1537	5658.495	8
345	2.28	4824.7148	4824.7148	9649.4297	37.7609	37.7609	11000.35	8
350	0.01	0.0000	0.0000	0.0000	35.0000	35.0000	0	8
351	0.75	4619.6621	4619.6621	9239.3242	38.2980	38.2980	3464.747	8
355	1.16	4604.0645	4604.0645	9208.1289	38.3384	38.3384	5340.715	8
384	0.15	5013.1468	5026.3286	10039.4755	37.2588	37.2234	753.9493	8
387	0.66	4904.9868	4918.1687	9823.1555	37.5480	37.5129	3245.991	8
391	1.30	1450.3712	1445.4888	2895.8600	39.1870	39.1926	1879.135	8

395	0.12	7988.3797	7996.6488	15985.0284	37.4125	37.3921	959.5979	8
434	0.03	12969.5401	12969.8758	25939.4159	36.9720	36.9716	389.0963	8
492	0.01	7097.4636	7171.0001	14268.4636	35.6445	35.4831	71.71	8
759	0.32	4483.9583	4515.2461	8999.2043	36.3618	36.3132	1444.879	8
499	0.13	14702.4850	14702.4672	29404.9522	35.0860	35.0860	1911.321	8
500	0.25	14229.3189	14229.6546	28458.9735	35.6068	35.6064	3557.414	8
536	1.08	1.2898	1.2899	2.5797	35.0000	35.0000	1.393092	8
539	0.25	10090.7478	10120.8097	20211.5575	38.0526	37.9793	2530.202	8
540	0.60	10032.0051	10062.0670	20094.0721	38.1960	38.1226	6037.24	8
544	0.29	9497.1167	9527.8834	19025.0001	39.5080	39.4323	2763.086	8
549	2.59	9548.4101	9579.1766	19127.5867	39.3818	39.3061	24810.07	8
552	0.56	1.4029	1.4029	2.8058	35.0000	35.0000	0.785624	8
556	2.48	9383.7879	9416.7371	18800.5251	39.7870	39.7058	23353.51	8
577	0.90	2138.7393	2046.3269	4185.0662	38.6575	38.7728	1841.694	8
574	1.93	6784.7983	6940.5558	13725.3542	36.3263	35.9876	13395.27	8
575	0.99	2340.1207	2230.6237	4570.7443	38.3895	38.5380	2208.317	8
576	0.15	1762.7000	1836.8364	3599.5364	39.0954	39.0157	275.5255	8
714	0.17	7729.0278	7737.2969	15466.3247	38.0540	38.0336	1315.34	8
717	0.35	7915.2310	7923.5001	15838.7310	37.5936	37.5731	2773.225	8
718	0.07	7765.1735	7773.4868	15538.6603	37.9647	37.9442	544.1441	8
720	0.37	4483.9583	4515.2461	8999.2043	36.3618	36.3132	1670.641	8
746	0.08	7664.1057	7672.4188	15336.5244	38.2143	38.1938	613.7935	8
771	0.58	7177.8242	7179.7976	14357.6218	39.4090	39.4041	4164.283	8
809	0.14	1552.2190	1545.0401	3097.2591	39.0653	39.0742	216.3056	8
841	0.32	195.7482	195.7482	391.4964	39.9876	39.9876	62.63942	8
840	0.33	500.0033	500.0033	1000.0066	39.9115	39.9115	165.0011	8
							590706.4	
							8 Total	
39	2.59	4671.6021	4671.6021	9343.2041	40.5752	40.5752	12099.45	9
42	5.83	7881.5991	7881.5991	15763.1982	43.4756	43.4756	45949.72	9
122	1.58	1587.7467	1587.7467	3175.4934	44.1793	44.1793	2508.64	9
123	1.44	1891.6868	1972.4353	3864.1221	43.4260	43.2871	2840.307	9
124	3.46	2622.3874	2541.6389	5164.0263	42.7234	42.8613	8794.071	9
127	2.83	2028.0455	2108.7940	4136.8394	43.1883	43.0402	5967.887	9
134	1.37	2741.0171	2741.0171	5482.0342	42.5140	42.5140	3755.193	9
138	0.55	3310.7542	3304.8099	6615.5641	41.4008	41.4133	1817.645	9
149	1.93	922.4076	922.4046	1844.8122	44.6420	44.6420	1780.241	9
175	1.95	848.0484	738.4176	1586.4660	44.6995	44.7749	1439.914	9

178	1.10	1150.0112	1040.3805	2190.3917	44.4337	44.5400	1144.419	9
220	1.45	3344.4330	3432.5166	6776.9496	42.6923	42.5698	4977.149	9
229	1.07	9163.6211	9184.8519	18348.4730	40.3295	40.2772	9827.792	9
233	0.07	8312.8117	8333.1003	16645.9119	42.4236	42.3738	583.317	9
235	0.87	8312.8117	8333.1003	16645.9119	42.4236	42.3738	7249.797	9
240	0.65	8367.3147	8387.6033	16754.9180	42.2899	42.2402	5451.942	9
249	3.56	3344.4330	3432.5166	6776.9496	42.6923	42.5698	12219.76	9
307	0.61	3504.9336	3500.9473	7005.8809	42.4670	42.4727	2135.578	9
335	0.32	3691.3806	3691.3806	7382.7612	42.1939	42.1939	1181.242	9
343	0.15	2123.5991	2036.0048	4159.6040	43.5113	43.6335	305.4007	9
349	4.80	2092.9611	2005.3668	4098.3278	43.5546	43.6751	9625.761	9
377	0.70	1271.8033	1271.8003	2543.6037	44.3025	44.3025	890.2602	9
378	0.79	2198.7887	2118.0372	4316.8260	43.4025	43.5192	1673.249	9
386	0.43	3742.7784	3742.7804	7485.5588	44.9448	44.9448	1609.396	9
390	1.18	7634.7888	7655.9811	15290.7698	44.0725	44.0214	9034.058	9
398	0.71	5899.7441	5927.4672	11827.2113	42.4435	42.3802	4208.502	9
692	1.07	5573.3353	5573.8570	11147.1923	43.1787	43.1775	5964.027	9
735	0.43	5399.7408	5427.4638	10827.2046	43.5607	43.5002	2333.809	9
738	0.80	0.0000	0.0000	0.0000	40.0000	40.0000	0	9
765	0.17	6273.7623	6278.0320	12551.7943	41.5778	41.5677	1067.265	9
821	0.16	5112.2067	5107.5016	10219.7083	44.1784	44.1883	817.2003	9
807	0.63	6435.5107	6437.4841	12872.9948	41.1967	41.1920	4055.615	9
808	0.82	5573.3353	5573.8570	11147.1923	43.1787	43.1775	4570.563	9
811	1.13	3778.0211	3772.0769	7550.0981	40.3692	40.3829	4262.447	9
							182141.6	
							9 Total	
6	2.73	5661.1836	5661.1836	11322.3672	48.5734	48.5734	15455.03	10
20	0.73	5701.8237	5701.8237	11403.6475	48.4876	48.4876	4162.331	10
21	1.89	5750.4336	5750.4336	11500.8672	48.3846	48.3846	10868.32	10
48	0.37	5812.7778	5812.7778	11625.5557	48.2516	48.2516	2150.728	10
49	0.34	5812.7778	5812.7778	11625.5557	48.2516	48.2516	1976.344	10
128	2.13	1471.5955	1471.5955	2943.1909	49.2204	49.2204	3134.498	10
129	1.17	1558.5412	1639.2897	3197.8309	49.1223	49.0260	1917.969	10
137	2.39	3208.5034	3208.5034	6417.0068	47.6397	47.6397	7668.323	10
140	0.40	4216.7412	4228.8031	8445.5443	45.9582	45.9359	1691.521	10
176	2.74	495.1353	466.2581	961.3933	49.9197	49.9292	1277.547	10
379	1.15	1787.1543	1787.1563	3574.3107	48.8368	48.8368	2055.23	10
380	0.64	5579.4403	5587.4527	11166.8931	48.7447	48.7280	3575.97	10

382	0.77	4101.2179	4104.3509	8205.5689	46.1697	46.1640	3160.35		10
383	0.03	4342.7985	4345.9315	8688.7300	45.7224	45.7164	130.3779		10
397	0.49	4317.5343	4329.5960	8647.1304	45.7701	45.7473	2121.502		10
442	1.78	6453.4597	6609.2173	13062.6770	46.8405	46.4863	11764.41		10
445	1.19	6800.0447	6955.8024	13755.8471	46.0472	45.6850	8277.405		10
446	1.51	6825.7842	6981.5595	13807.3437	45.9876	45.6248	10542.15		10
754	0.41	3472.2642	3453.4190	6925.6832	47.2373	47.2670	1415.902		10
736	0.29	3815.7054	3796.8603	7612.5657	46.6724	46.7046	1101.089		10
812	0.57	1884.0693	1884.0713	3768.1406	48.7040	48.7040	1073.921		10
843	3.37	2577.9723	2584.0899	5162.0623	48.4828	48.4755	8708.383		10
							104229.3	10 Total	
1	4.78	905.8372	905.8372	1811.6744	54.8453	54.8453	4329.902		11
2	2.62	3488.4961	3488.4961	6976.9922	52.4877	52.4877	9139.86		11
3	4.90	2429.1936	2429.1936	4858.3872	53.7958	53.7958	11903.05		11
31	2.80	1468.4822	1468.4822	2936.9644	54.5755	54.5755	4111.75		11
34	15.45	1598.8081	1598.8081	3197.6162	54.4932	54.4932	24701.59		11
45	2.83	3488.4961	3488.4961	6976.9922	52.4877	52.4877	9872.444		11
46	0.36	3456.4263	3456.4263	6912.8525	52.5338	52.5338	1244.313		11
47	0.55	3616.4861	3616.4861	7232.9722	52.2999	52.2999	1989.067		11
55	13.16	1598.8081	1598.8081	3197.6162	54.4932	54.4932	21040.31		11
61	0.19	3566.2629	3566.2629	7132.5259	52.3743	52.3743	677.59		11
278	0.66	3595.1711	3595.1711	7190.3423	52.3316	52.3316	2372.813		11
344	3.69	3566.2629	3566.2629	7132.5259	52.3743	52.3743	13159.51		11
568	4.99	905.8372	905.8372	1811.6744	54.8453	54.8453	4520.128		11
							109062.3	11 Total	
							2354953	Grand Total	

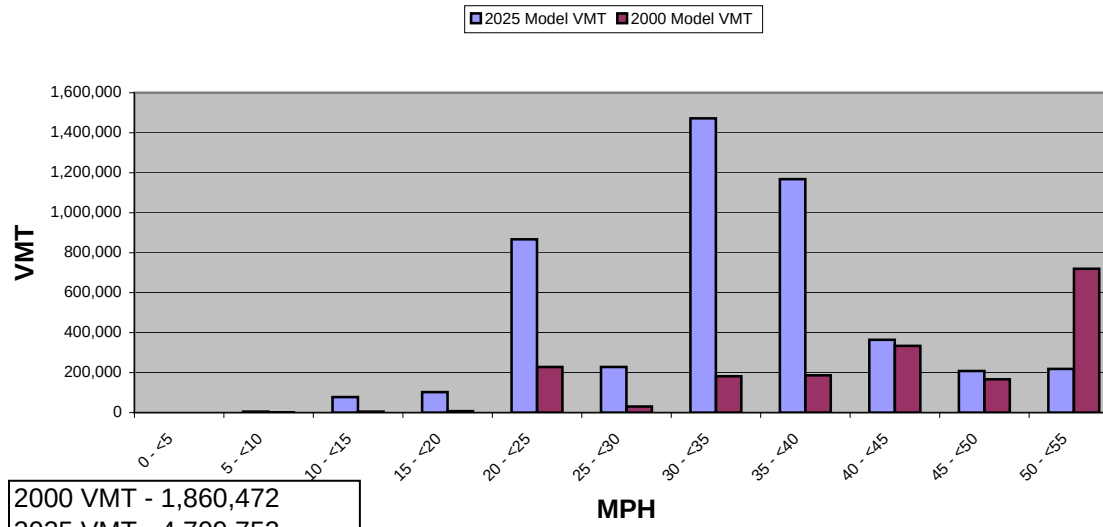
2025 Model VMT

MPH	VMT
0 - <5	0
5 - <10	4,469
10 - <15	77,350
15 - <20	102,797
20 - <25	866,619
25 - <30	227,935
30 - <35	1,472,238
35 - <40	1,167,880
40 - <45	364,507
45 - <50	207,833
50 - <55	218,125
Total	4,709,752

2000 Model VMT

MPH	VMT
0 - <5	0
5 - <10	843
10 - <15	5,156
15 - <20	7,532
20 - <25	228,269
25 - <30	30,760
30 - <35	182,079
35 - <40	186,150
40 - <45	333,656
45 - <50	166,425
50 - <55	719,602
Total	1,860,472

City of Ione Vehicle-Miles Traveled by Speed Bin



APPENDIX 4.8A BIOLOGICAL RESOURCES



United States Department of the Interior
FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



October 29, 2008

Document Number: 081029033431

Jessica Griggs
PMC
2729 Prospect Park Drive, Suite 220
Rancho Cordova, CA 95670

Subject: Species List for City of Ione, General Plan EIR

Dear: Ms. Griggs

We are sending this official species list in response to your October 29, 2008 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 27, 2009.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 081029033431

Database Last Updated: January 31, 2008

Quad Lists

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

valley elderberry longhorn beetle (T)

Lepidurus packardii

Critical habitat, vernal pool tadpole shrimp (X)

vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (T)

Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

Plants

Arctostaphylos myrtifolia

Ione manzanita (T)

Castilleja campestris ssp. *succulenta*

succulent (=fleshy) owl's-clover (T)

Eriogonum apricum var. *apricum*

Ione buckwheat (E)

Eriogonum apricum var. *prostratum*

Irish Hill buckwheat (E)

Orcuttia viscida

Critical habitat, Sacramento Orcutt grass (X)

Sacramento Orcutt grass (E)

Quads Containing Listed, Proposed or Candidate Species:

VALLEY SPRINGS (477A)

WALLACE (477B)

CLEMENTS (478A)

AMADOR CITY (494A)

IRISH HILL (494B)

IONE (494C)

JACKSON (494D)

CARBONDALE (495A)

GOOSE CREEK (495D)

LATROBE (510C)

FIDDLTOWN (510D)

FOLSOM SE (511D)

County Lists

No county species lists requested.

Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.

- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as [critical habitat](#). These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements;

cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [critical habitat page](#) for maps.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 27, 2009.

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Landscape
City of Lone, General Plan EIR

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
1 Actinemys marmorata	western pond turtle	ARAAD02030			G3G4	S3		SC
2 Actinemys marmorata marmorata	northwestern pond turtle	ARAAD02031			G3G4T3	S3		SC
3 Agelaius tricolor	tricolored blackbird	ABPBXB0020			G2G3	S2		SC
4 Agrostis hendersonii	Henderson's bent grass	PMPOA040K0			G1Q	S1.1	3.2	
5 Ambystoma californiense	California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3		SC
6 Ammodramus savannarum	grasshopper sparrow	ABPBXA0020			G5	S2		SC
7 Andrena blennospermatis	Blennosperma vernal pool andrenid bee	IIHYM35030			G2	S2		
8 Antrozous pallidus	pallid bat	AMACC10010			G5	S3		SC
9 Aquila chrysaetos	golden eagle	ABNKC22010			G5	S3		
10 Arctostaphylos myrtifolia	lone manzanita	PDERI04240	Threatened		G2	S2.1	1B.2	
11 Ardea alba	great egret	ABNGA04040			G5	S4		
12 Ardea herodias	great blue heron	ABNGA04010			G5	S4		
13 Athene cunicularia	burrowing owl	ABNSB10010			G4	S2		SC
14 Banksula rudolphi	Rudolph's cave harvestman	ILARA14080			G1	S1		
15 Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3		
16 Buteo swainsoni	Swainson's hawk	ABNKC19070		Threatened	G5	S2		
17 Calycadenia hooveri	Hoover's calycadenia	PDAST1P040			G2	S2.2	1B.3	
18 Central Valley Drainage Hardhead/Squawfish Stream	Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA			G?	SNR		
19 Chrysis tularensis	Tulare cuckoo wasp	IIHYM72010			G1G2	S1S2		
20 Clarkia biloba ssp. brandegeae	Brandegee's clarkia	PDONA05053			G4G5T2	S2.2	1B.2	
21 Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2		
22 Eriogonum apricum var. apricum	lone buckwheat	PDPGN080F1	Endangered	Endangered	G2T2	S2.1	1B.1	
23 Eriogonum apricum var. prostratum	Irish Hill buckwheat	PDPGN080F2	Endangered	Endangered	G2T1	S1.1	1B.1	
24 Eryngium pinnatisectum	Tuolumne button-celery	PDAPI0Z0P0			G3	S3.2	1B.2	
25 Falco mexicanus	prairie falcon	ABNKD06090			G5	S3		
26 Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2	
27 Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	G5	S2		
28 Helianthemum suffrutescens	Bisbee Peak rush-rose	PDCIS020F0			G2Q	S2.2	3.2	
29 Horkelia parryi	Parry's horkelia	PDROS0W0C0			G2	S2.2	1B.2	
30 Icteria virens	yellow-breasted chat	ABPBX24010			G5	S3		SC
31 Lone Chaparral	lone Chaparral	CTT37D00CA			G1	S1.1		
32 Legenere limosa	legenere	PDCAM0C010			G2	S2.2	1B.1	

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Landscape
City of Ione, General Plan EIR

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
33 <i>Lepidurus packardii</i>	vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3		
34 <i>Linderiella occidentalis</i>	California linderiella	ICBRA06010			G3	S2S3		
35 <i>Navarretia myersii</i> ssp. <i>myersii</i>	pincushion navarretia	PDPLM0C0X1			G1T1	S1.1	1B.1	
36 Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1		
37 <i>Orcuttia viscida</i>	Sacramento orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1.1	1B.1	
38 <i>Pandion haliaetus</i>	osprey	ABNKC01010			G5	S3		
39 <i>Rana draytonii</i>	California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3		SC
40 <i>Riparia riparia</i>	bank swallow	ABPAU08010		Threatened	G5	S2S3		
41 <i>Sagittaria sanfordii</i>	Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2	
42 <i>Spea hammondi</i>	western spadefoot	AAABF02020			G3	S3		SC
43 <i>Sphenopholis obtusata</i>	prairie wedge grass	PMPOA5T030			G5	S2.2	2.2	



Inventory of Rare and Endangered Plants

v7-08d 10-05-08

Status: search results - Wed, Oct. 29, 2008 14:17 c

{QUADS_123} =~ m/494B|510C|510D|495A|495D|511D|494A|494C Search

Tip: Word fragments must be completed with a wildcard, e.g., esch* hyp* for Eschscholzia hypocoides. [all tips and help.] [search history]

Your Quad Selection: Irish Hill (494B) 3812048, Latrobe (510C) 3812058, Fiddletown (510D) 3812057, Carbondale (495A) 3812141, Goose Creek (495D) 3812131, Folsom SE (511D) 3812151, Amador City (494A) 3812047, Lone (494C) 3812038, Jackson (494D) 3812037

Hits 1 to 14 of 14

Requests that specify topo quads will return only Lists 1-3.

To save selected records for later study, click the ADD button.

ADD checked items to Plant Press

check all

check none

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	☐	1	<u>Arctostaphylos myrtifolia</u>	lone manzanita	Ericaceae	List 1B.2
	☐	1	<u>Clarkia biloba</u> ssp. <u>brandegeae</u>	Brandegee's clarkia	Onagraceae	List 1B.2
	☐	1	<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	List 2.2
	☐	1	<u>Eriogonum apricum</u> var. <u>apricum</u>	lone buckwheat	Polygonaceae	List 1B.1
	☐	1	<u>Eriogonum apricum</u> var. <u>prostratum</u>	Irish Hill buckwheat	Polygonaceae	List 1B.1
	☐	1	<u>Eryngium pinnatisectum</u>	Tuolumne button-celery	Apiaceae	List 1B.2
	☐	1	<u>Gratiola heterosepala</u>	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	☐	1	<u>Helianthemum suffrutescens</u>	Bisbee Peak rush-rose	Cistaceae	List 3.2
	☐	1	<u>Horkelia parryi</u>	Parry's horkelia	Rosaceae	List 1B.2
	☐	1	<u>Legenere limosa</u>	legenere	Campanulaceae	List 1B.1
	☐	1	<u>Navarretia myersii</u> ssp. <u>myersii</u>	pincushion navarretia	Polemoniaceae	List 1B.1
	☐	1	<u>Orcuttia viscida</u>	Sacramento Orcutt grass	Poaceae	List 1B.1
	☐	1	<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	List 1B.2
	☐	1	<u>Sphenopholis obtusata</u>	prairie wedge grass	Poaceae	List 2.2

To save selected records for later study, click the ADD button.



Inventory of Rare and Endangered Plants

v7-08d 10-05-08

Status: search results - Wed, Oct. 29, 2008 14:21 c

{QUADS_123} = ~ m/494C|477A|477B|495D|495A|478A|494D|494/ Search

Tip: +Lathyrus + "coastal dunes" returns only those Lathyrus in coastal dunes. Note the "+" and quotes.[all tips and help.][search history]

Your Quad Selection: lone (494C) 3812038, Valley Springs (477A) 3812027, Wallace (477B) 3812028, Goose Creek (495D) 3812131, Carbondale (495A) 3812141, Clements (478A) 3812121, Jackson (494D) 3812037, Amador City (494A) 3812047, Irish Hill (494B) 3812048

Hits 1 to 15 of 15

Requests that specify topo quads will return only Lists 1-3.

To save selected records for later study, click the ADD button.

ADD checked items to Plant Press

check all

check none

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	☐	1	<u>Agrostis hendersonii</u>	Henderson's bent grass	Poaceae	List 3.2
	☐	1	<u>Arctostaphylos myrtifolia</u>	lone manzanita	Ericaceae	List 1B.2
	☐	1	<u>Calycadenia hooveri</u>	Hoover's calycadenia	Asteraceae	List 1B.3
	☐	1	<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	List 2.2
	☐	1	<u>Eriogonum apricum</u> var. <u>apricum</u>	lone buckwheat	Polygonaceae	List 1B.1
	☐	1	<u>Eriogonum apricum</u> var. <u>prostratum</u>	Irish Hill buckwheat	Polygonaceae	List 1B.1
	☐	1	<u>Eryngium pinnatisectum</u>	Tuolumne button-celery	Apiaceae	List 1B.2
	☐	1	<u>Gratiola heterosepala</u>	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	☐	1	<u>Helianthemum suffrutescens</u>	Bisbee Peak rush-rose	Cistaceae	List 3.2
	☐	1	<u>Horkelia parryi</u>	Parry's horkelia	Rosaceae	List 1B.2
	☐	1	<u>Legenere limosa</u>	legenere	Campanulaceae	List 1B.1
	☐	1	<u>Navarretia myersii</u> ssp. <u>myersii</u>	pincushion navarretia	Polemoniaceae	List 1B.1
	☐	1	<u>Orcuttia viscida</u>	Sacramento Orcutt grass	Poaceae	List 1B.1
	☐	1	<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	List 1B.2
☐	☐	1	<u>Sphenopholis obtusata</u>	prairie wedge	Poaceae	List

APPENDIX 4.8B BIOLOGICAL RESOURCES

APPENDIX B – CONSOLIDATED LIST OF SPECIAL-STATUS SPECIES FROM THE RESULTS OF DATABASE SEARCHES

TABLE B-1 SPECIAL-STATUS PLANT SPECIES

Scientific Name Common Name	Status			Habitat Description ⁴	Considered in Impact Analysis	Rationale
	Federal ¹	State ²	CNPS ³			
Plants						
<i>Arctostaphylos myrtifolia</i> lone manzanita	FT	~	1B.2	Evergreen shrub. Chaparral, cismontane woodland in acidic, lone clay or sandy soil. Blooms: November - February Elevation: 60 - 580 meters	Yes	There are seven previously recorded occurrences of this species within a one-mile radius of the Planning Area and four additional occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the chaparral and woodland areas within the Planning Area.
<i>Calycadenia hooveri</i> Hoover's calycadenia	~	~	1B.3	Inhabits cismontane woodland, valley and foothill grassland; among rocky soils. Blooming period: July-September Elevation: 65 - 300 meters	Yes	Although there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area, suitable habitat is present within the annual grassland habitat in the Planning Area.
<i>Castilleja campestris</i> ssp. <i>succulenta</i> Succulent (=fleshy) owl's clover	FT	SE	1B.2	A hemi-parasitic annual herb, generally 5 - 25 cm tall, with fleshy, somewhat brittle leaves. Produces dense inflorescences of yellow to white flowers subtended by green bracts. Restricted to vernal pools in the southern portion of the Central Valley of California. Blooms: May	Yes	Although there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area, suitable habitat is present within the Planning Area.

Scientific Name Common Name	Status			Habitat Description ⁴	Considered in Impact Analysis	Rationale
	Federal ¹	State ²	CNPS ³			
				Elevation: 50 – 750 meters		
<i>Clarkia biloba</i> ssp. <i>brandegeeeae</i> Brandegee's clarkia	~	~	1B.2	Annual herb. Chaparral and cismontane woodland often on roadcuts. Blooming period: May - July Elevation: 225 - 915 meters	No	This species' known elevation range is outside the Planning Area (USGS 2005). In addition, there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area.
<i>Dowlingia pusilla</i> Dwarf dowingia	~	~	2.2	Annual herb. Valley and foothill grassland (mesic soils) and vernal pools. Blooms: March - May Elevation: 1 - 445 meters	Yes	Although there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area, suitable habitat is present within the annual grassland habitat in the Planning Area.
<i>Eriogonum</i> <i>apricum</i> var. <i>apricum</i> lone buckwheat	FE	SE	1B.1	Perennial herb. Chaparral (openings, lone soil). Blooms: July - October Elevation: 60 - 145 meters	Yes	There are nine previously recorded occurrences of this species within a one-mile radius of the Planning Area and one additional occurrence within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the chaparral habitat in the Planning Area.
<i>Eriogonum</i> <i>apricum</i> var. <i>prostratum</i> Irish Hill buckwheat	FE	SE	1B.1	Perennial herb. Chaparral (openings, lone soil). Blooms: June - July Elevation: 90 - 120 meters	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area and one additional occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the

Scientific Name Common Name	Status			Habitat Description ⁴	Considered in Impact Analysis	Rationale
	Federal ¹	State ²	CNPS ³			
						chaparral habitat in the Planning Area.
<i>Eryngium pinnatisectum</i> Tuolumne button-celery	~	~	1B.2	Annual/perennial herb. Cismontane woodland, lower montane coniferous forest, vernal pools in mesic soils. Blooms: June - August Elevation: 70 - 915 meters	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area and three additional occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Gratiola heterosepala</i> Bogg's Lake hedge-hyssop	~	SE	1B.2	Annual herb. Marshes, swamps, lake margins, and vernal pools with clay soils. Blooms: April - June Elevation 10 – 2,375 meters	Yes	There are four previously recorded occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Helianthemum suffrutescens</i> Bisbee Peak rush-rose	~	~	3.2	Perennial shrub. Chaparral (often in serpentinite or gabbroic rock formations or lone soil). Blooms: April – June Elevation: 45 – 840 meters	Yes	There are nine previously recorded occurrences of this species within a one-mile radius of the Planning Area and three additional occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Horkelia parryi</i> Parry's horkelia	~	~	1B.2	Perennial herb. Chaparral, cismontane woodland, especially lone formation. Blooms: April – June (September) Elevation: 80 - 1,035 meters	Yes	There are six previously recorded occurrences of this species within a one-mile radius of the Planning Area and three additional occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the

Scientific Name Common Name	Status			Habitat Description ⁴	Considered in Impact Analysis	Rationale
	Federal ¹	State ²	CNPS ³			
						Planning Area.
<i>Legenere limosa</i> Legenere	~	~	1B.1	Annual herb. Vernal pools. Blooms: April - June Elevation: 1 - 880 meters	Yes	There are four previously recorded occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Navarretia myersii</i> ssp. <i>myersii</i> Pincushion navarretia	~	~	1B.1	Annual herb. Vernal pools. Blooms: May Elevation: 20 - 330 meters	Yes	There are three previously recorded occurrences of this species within a one-mile radius of the Planning Area and four additional occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Orcuttia viscida</i> Sacramento orcutt grass	FE	SE	1B.1	Vernal pools. Known from 10 occurrences (CNPS 2008). Blooms: April – July Elevation: 30 -100 meters	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Sagittaria sanfordii</i> Sanford's arrowhead	~	~	1B2	Marshes and swamps (assorted shallow freshwater). Extirpated from southern California and mostly extirpated from the Central Valley. Blooms: May - October Elevation: 0 - 610 meters	Yes	Although there are no previously recorded occurrences of this species within a five -mile radius of the Planning Area, suitable habitat is present within the Planning Area.
<i>Sphenopholis obtusata</i> Prairie wedge	~	~	2.2	Perennial herb. Inhabits cismontane woodland, meadows and seeps; among mesic soils. Blooming period: April-July	No	This species' known elevational range is outside the Planning Area. In addition, there are no

Scientific Name Common Name	Status			Habitat Description ⁴	Considered in Impact Analysis	Rationale
	Federal ¹	State ²	CNPS ³			
grass				Elevation: 300 - 2,000 meters		previously recorded occurrences of this species within a five -mile radius of the Planning Area.

CODE DESIGNATIONS

Federal status ¹	State status ²	CNPS ³
FE = Listed as endangered under the federal Endangered Species Act	SE = Listed as endangered under the California Endangered Species Act	List 1B = Plant species that are rare, threatened, or endangered in California and elsewhere.
FT = Listed as threatened under the federal Endangered Species Act	CR = Species identified as rare by CDFG	List 2 = Plant species that are rare, threatened, or endangered in California, but more common elsewhere.
		List 3 = Plant species that lack the necessary information to assign them to a listing status
		Threat Ranks 0.1 -Seriously threatened in California (high degree/immediacy of threat) 0.2 -Fairly threatened in California (moderate degree/immediacy of threat) 0.3 -Not very threatened in California (low degree/immediacy of threats or no current threats known)
Habitat Description³: Habitat description adapted from CNDDDB (CDFG 2008), CNPS online inventory (CNPS 2008), and NatureServe Explorer (NatureServe 2008) Note: Listed Blooming period months in parenthesis indicate uncommon blooming period (e.g., June-July (August)).		

References

- California Department of Fish and Game (CDFG). 2008. California Natural Diversity Database (CNDDDB) Rarefind 3 computer program, Version 3.1.0. Commercial version dated August 2, 2008. Data will expire February 2, 2009. CDFG, BiogeographicData Branch. Sacramento, CA.
- California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants (online edition, v7-08d). California Native Plant Society. Sacramento, CA. Accessed on Mon, Oct. 27, 2008 from <http://www.cnps.org/inventory>
- NatureServe. 2008. NatureServe Explorer (online edition). Version 7.0 (1 February 2008). Ecological systems data last updated June 2008. All other data last updated February 2008. Accessed on October 27, 2008. <http://www.natureserve.org/>
- United States Geological Survey (USGS). 2005. The National Map Viewer (online version). Last modification: 09/14/2005. Accessed on December 9, 2008 from <http://nmviewogc.cr.usgs.gov/viewer.htm>

TABLE B-2 SPECIAL-STATUS WILDLIFE SPECIES

Common Name (<i>Scientific Name</i>)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
Invertebrates					
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	FE	~	Inhabits rather large, cool-water vernal pools with moderately turbid water. They have been collected from early November to early April. Currently, the USFWS is aware of eight populations of Conservancy fairy shrimp, which include (from north to south): (1) Vina Plains, Butte and Tehama counties; (2) Sacramento National Wildlife Refuge, Glenn County; (3) Yolo Bypass Wildlife Area, Yolo County; (4) Jepson Prairie, Solano County; (5) Mapes Ranch, Stanislaus County; (6) University of California, Merced, Merced County; (7) Grasslands Ecological Area, Merced County and (8) Los Padres National Forest, Ventura County.	Yes	Although there are no previously recorded occurrences of this species within a five -mile radius of the Planning Area, suitable habitat is present within the Planning Area.
<i>Branchinecta lynchi</i> Vernal pool fairy shrimp	FT	~	Occupies a variety of different vernal pool habitats, from small, clear, sandstone rock pools to large, turbid, alkaline, grassland valley floor pools. Although the species has been collected from large vernal pools, including one exceeding 25 acres, it tends to occur in smaller pools. It is most frequently found in pools measuring less than 0.05 acre most commonly in grass or mud bottomed swales, or basalt flow depression pools in unplowed grasslands. Vernal pool fairy shrimp	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area and 12 additional previously recorded occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			have been collected from early December to early May.		
<i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	FT, FPD	~	Associated exclusively with elderberry shrubs (<i>Sambucus</i> spp.) in Central Valley and foothills during its entire life cycle; larvae bore into elderberry stems and feed upon the pith during their two-year life cycle.	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area (CDFG 2008). Several elderberry shrubs were observed within the Planning Area.
<i>Lepidurus packardii</i> Vernal pool tadpole shrimp	FE	~	Inhabits vernal pools containing clear to highly turbid water, ranging in size from 54 square feet in the former Mather Air Force Base area of Sacramento County, to the 89-acre Olcott Lake at Jepson Prairie. Tadpole shrimp climb objects and plow along or within bottom sediments feeding on organic debris and living organisms, such as fairy shrimp and other invertebrates. Superficially resembles the ricefield tadpole shrimp (<i>Triops longicaudatus</i>).	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area and five additional previously recorded occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
Fish					
<i>Hypomesus transpacificus</i> Delta smelt	FT	ST	Located exclusively in the Sacramento-San Joaquin Delta. They have been found as far upstream as the mouth of the American River on the Sacramento River and Mossdale on the San Joaquin River. They extend downstream as far as San Pablo Bay. Delta smelt are found in brackish water. They usually inhabit salinity ranges of less than 2 parts per thousand (ppt) and are rarely found at	No	The Planning Area is outside of this species' range.

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			salinities greater than 14 ppt.		
<i>Oncorhynchus mykiss</i> Central Valley Steelhead - ESU	FT	~	This fish species is found within the Sacramento and San Joaquin rivers and their tributaries. Resident populations inhabit small headwater streams, large rivers, lakes, or reservoirs, often in cool clear lakes and cool swift streams with silt-free substrate. In streams, deep, low velocity pools are important wintering habitats.	Yes	Sutter Creek and Mule Creek within the Planning Area eventually drain into the Cosumnes River which has the potential to support this fish species.
<i>Oncorhynchus tshawytscha</i> Central Valley Chinook salmon Spring-run ESU	FT	ST	Existing populations spawn in the Sacramento River and its tributaries in California. Historically, this ESU was the dominant run in the Sacramento and San Joaquin river basins, but native populations in the San Joaquin River apparently all have been extirpated.	Yes	Sutter Creek and Mule Creek within the Planning Area eventually drain into the Cosumnes River which has the potential to support this fish species.
<i>Oncorhynchus tshawytscha</i> Central Valley Chinook salmon Winter-run ESU	FE	SE	Spawns primarily in the mainstem of the Sacramento River immediately downstream of Keswick Dam and below the historic spawning grounds downstream from Shasta Reservoir; most suitable spawning areas are between the Red Bluff Diversion Dam and Keswick Dam. Migrates through the Sacramento River, Delta, and San Pablo and San Francisco bays to nonbreeding habitat in the Pacific Ocean. Some juveniles rear non-natally for brief periods in lower reaches of tributaries.	Yes	Sutter Creek and Mule Creek within the Planning Area eventually drain into the Cosumnes River which has the potential to support this fish species.
Amphibians					
<i>Ambystoma</i>	FT	CSC	Typically found in annual grasslands of	Yes	There are three previously

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
<i>californiense</i> California tiger salamander			lower hills and valleys; breeds in temporary and permanent ponds and in streams; uses rodent burrows and other subterranean retreats in surrounding uplands for shelter; appears to be absent in waters containing predatory game fish. The California tiger salamander spends most of its lifecycle estivating underground in adjacent valley oak woodland or grassland habitat, primarily in abandoned rodent burrows. Research has shown that dispersing juveniles can roam up to two miles from their breeding ponds and that a minimum of several hundred acres of uplands habitat is needed surrounding a breeding pond in order for the species to survive over the long term.		recorded occurrences of this species within a one-mile radius of the Planning Area and 20 additional occurrences within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Rana aurora draytonii</i> California red-legged frog	FT	CSC	Found in humid forests, woodlands, grasslands, and streamsides with plant cover. Most common in lowlands or foothills. Frequently found in woods adjacent to streams. Breeding habitat is in permanent or late season sources of deep water; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. From sea level to 8,000 feet (2,440 meters). Breeds late December to early April. Endemic to California and northern Baja California. Ranges along the coast from Mendocino County in northern California south to northern	Yes	Although there are no previously recorded occurrences of this species within a five -mile radius of the Planning Area, suitable habitat is present within the Planning Area.

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			Baja California, and inland through the northern Sacramento Valley into the foothills of the Sierra Nevada mountains, south to Tulare county, and possibly Kern county.		
<i>Spea hammondi</i> Western spadefoot toad	~	CSC	Associated habitat divided between aquatic breeding ponds and upland, non-breeding habitat. During much of the year found in upland grassland, chaparral, and woodland communities. Will travel long distances to ephemeral breeding pools. Breeding typically takes place January - May.	Yes	There are five previously recorded occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
Reptiles					
<i>Actinemys marmorata marmorata</i> Northwestern pond turtle	~	CSC	Permanent or nearly permanent water in various habitats (e.g. ponds, streams, perennial drainages). Requires basking sites particularly in areas vegetated with riparian habitats. The western pond turtle includes two subspecies, the northwestern pond turtle (<i>A. m. marmorata</i>) and the southwestern pond turtle (<i>A. m. pallida</i>). The two subspecies range is interconnected within and around the San Francisco Bay Area.	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Thamnophis gigas</i> Giant garter snake	FT	ST	Inhabits freshwater sloughs, marshes, canals, wetlands. Also uses rice fields, drainage canals and irrigation ditches for hunting and overwinters underground in uplands. This species inhabits small mammal burrows and other soil crevices above	No	There are no previously recorded occurrences within a five-mile radius of the Planning Area. The Planning Area is outside of this species' known range (CaliforniaHerps 2008).

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			prevailing flood elevations throughout its winter dormancy period. Burrows commonly have sunny exposure along south and west facing slopes. The breeding season extends through March and April, and females give birth to live young from late July through early September.		
Birds					
FALCONIFORMES (hawks, falcons)					
<i>Aquila chrysaetos</i> Golden eagle	MNBMC; Bald and Golden Eagle Protection Act	CSC; CFP	A large raptor. Found generally in open country including prairies, arctic and alpine tundra, open wooded country, and barren areas, especially in hilly or mountainous regions. Nests on rock ledge of cliff or in large tree (e.g., oak or eucalyptus in California). Pair may have several alternate nests. Egg dates: peak late February-March, California to Texas (but earlier nesting may yield young ready to fly as early as March 1 in Texas).	Yes	There is one previously recorded occurrence of this species within a one-mile radius of the Planning Area (CDFG 2008). A golden eagle nest was observed in 1992 less than one mile west of the Planning Area (CDFG 2008a/b). Suitable nesting and foraging habitat is present within the Planning Area.
<i>Buteo swainsoni</i> Swainson's hawk	MNBMC	ST	Breeds in stands with few trees in Juniper-sage flats, riparian areas, and in oak savannah. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. Nests in valley oaks, cottonwoods, willows and a variety of other trees often in, or near, riparian habitats; forages in grasslands, irrigated pastures, and a variety of	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable nesting and foraging habitat is present within the Planning Area.

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			agricultural row and field crops; shows a preference for alfalfa. Breeds late March to late August.		
<i>Falco mexicanus</i> Prairie falcon	MNBMC	CSC	Prairie falcons are sandy-colored falcons with distinctive white eyebrows and dark wing-pit patches. Prairie falcons inhabit hills, canyons, and mountains of arid grasslands and shrub-steppes of southwestern Canada, western United States, Baja California, and northern Mexico. They nest primarily on cliffs overlooking large open areas, using a ledge, cavity, crevice, or an abandoned nest of eagles, hawks, or ravens.	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable nesting and foraging habitat is present within the Planning Area.
<i>Haliaeetus leucocephalus</i> Bald eagle	FT; FPD; MNBMC; Bald and Golden Eagle Protection Act	SE; CFP	Permanent resident, and uncommon winter migrant, now restricted to breeding mostly in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity cos. Ocean shore, lake margins, and rivers, both nesting and wintering. Build stick nests within large tall trees and typically within 1 mile of permanent water. Wintering populations along major rivers and reservoirs in Yuba County. Breeds February to July.	Yes	Although there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area, suitable habitat is present within the Planning Area.
<i>Pandion haliaetus</i> Osprey	MNBMC	CSC	This raptor inhabits areas primarily along rivers, lakes, reservoirs, and seacoasts. This species is often seen crossing land between bodies of water during its migration. This raptor nests in dead snags, living trees, cliffs, utility poles,	Yes	Although there are no previously recorded occurrences of this species within a five-mile radius of the Planning Area, suitable nesting and foraging habitat is present

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			wooden platforms on poles, channel buoys, chimneys, windmills, etc. (usually near or above water). This species nests are often used in successive years.		within the Planning Area.
CICONIIFORMES (herons, vultures)					
<i>Ardea herodias</i> Great blue heron	MNBMC	~	(Nests are protected). Colonial nester in tall trees, cliff sides and sequestered spots on marshes. Rookery site in close proximity to foraging areas, marshes, lake margins, tide-flats, rivers, streams, and wet meadows.	Yes	Although there are no previously recorded occurrences of this species within a five -mile radius of the Planning Area, suitable nesting habitat is present within the Planning Area.
<i>Ardea alba</i> Great egret	MNBMC	~	(Nests are protected). Typically nest in large breeding colonies or rookeries. Breeding season typically February–August. Rookeries typically found in large trees in riparian habitat.	Yes	Although there are no previously recorded occurrences of this species within a five -mile radius of the Planning Area, suitable nesting habitat is present within the Planning Area.
PASSERIFORMES (perching birds)					
<i>Agelaius tricolor</i> Tricolored blackbird	MNBMC	CSC	Breeds in freshwater wetlands, with tall dense vegetation including tule, cattail, and blackberry. Forages in grasslands and croplands. Resident year-round. Breeds April to July.	Yes	There are five previously recorded occurrences of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Ammodramus savannarum</i> Grasshopper sparrow	MNBMC	CSC	Inhabits grassland/herbaceous, old field, and savanna. Prefers grasslands of intermediate height and are often associated with clumped vegetation interspersed with patches of bare	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
			ground for breeding habitat. Other habitat requirements include moderately deep litter and sparse coverage of woody vegetation.		present within the Planning Area.
<i>Icteria virens</i> Yellow-breasted chat	MNBMC	CSC	Migrant species that nests in riparian habitats along rivers and streams up to 4,800 ft. on the west side of the Sierra Nevada. Breeds May to July.	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present within the Planning Area.
<i>Riparia riparia</i> Bank swallow	MNBMC	ST	Primarily riparian and other lowland habitats in California. In summer, restricted to riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with fine-textured or sandy soils for nesting holes. Breeds early May to July.	Yes	There are no previously recorded occurrences of this species within a five-mile radius of the Planning Area. Suitable habitat may be present along the riparian corridors; however, since the entire Planning Area was not surveyed, it is unknown whether these areas contain vertical cliffs suitable for nesting habitat.
STRIGIFORMES (owls)					
<i>Athene cunicularia</i> Burrowing owl	MNBMC	CSC	Open grasslands and shrublands up to 1,615 meters (5,300 feet) with low perches and small mammal burrows. Resident year-round. Breeds March-August.	Yes	There are two previously recorded occurrences of this species within a five-mile radius of the Planning Area. Suitable nesting and foraging habitat is present within the annual grassland habitat.
Mammals					

Common Name (Scientific Name)	Status		Habitat Description ³	Considered in Impact Analysis	Comments
	Federal ¹	State ²			
Antrozous pallidus Pallid bat	~	CSC	Pallid bats roost in rock crevices, tree hollows, mines, caves, and a variety of anthropogenic structures, including vacant and occupied buildings and buildings, mines, and natural caves are utilized as roosts. Occurrence is primarily in arid habitats. Colonies are usually small and may contain 12-100 bats.	Yes	There is one previously recorded occurrence of this species within a five-mile radius of the Planning Area (CDFG 2008). Suitable habitat is present throughout the Planning Area.

CODE DESIGNATIONS

Federal status ¹	State status ²
ESU = Evolutionary Significant Unit is a distinctive population	SE = Listed as endangered under the California Endangered Species Act
FE = Listed as endangered under the Endangered Species Act	ST = Listed as threatened under the California Endangered Species Act
FT = Listed as threatened under the Endangered Species Act	CSC = Species of Concern as identified by CDFG
FPD = Federally Proposed to be Delisted, identified by USFWS	CFP = Listed as fully protected under CDFG Code
MNBMC = Migratory Nongame Bird of Management Concern, protected under the Migratory Bird Treaty Act	
Habitat Description³: Habitat description adapted from CNDDDB (CDFG 2008) and NatureServe Explorer (NatureServe 2008)	

References

California Department of Fish and Game (CDFG). 2008. California Natural Diversity Database (CNDDDB) Rarefind 3 computer program, Version 3.1.0. Commercial version dated August 2, 2008. Data will expire February 2, 2009. CDFG, Biogeographic Data Branch. Sacramento, CA.

California Herps. 2008. Range map for Giant Garter Snake (*Thamnophis gigas*). Accessed online December 8, 2008 at <http://www.californiaherps.com/snakes/pages/t.gigas.html>

NatureServe. 2008. NatureServe Explorer (online edition). Version 7.0 (1 February 2008). Ecological systems data last updated June 2008. All other data last updated February 2008. Accessed on October 27, 2008. <http://www.natureserve.org/>

APPENDIX C – PLANT AND WILDLIFE SPECIES OBSERVED DURING THE SITE RECONNAISSANCE

TABLE C-1 PLANT SPECIES OBSERVED

List compiled from a survey completed by a PMC biologist on November 12, 2008.

Scientific Name	Common Name	Habitat
<i>Adenostoma fasciculatum</i>	Chamise	Chaparral, Mixed oak woodland
<i>Ailanthus altissima</i>	Tree of Heaven	Ruderal
<i>Arctostaphylos</i> sp.	Manzanita	Chaparral
<i>Baccharis salicifolia</i>	Mule fat	Riparian
<i>Brassica rapa</i>	Field mustard	Urban/ruderal
<i>Centaurea solstitialis</i>	Yellow star thistle	Invasive
<i>Cirsium vulgare</i>	Bull thistle	Invasive
<i>Convolvulus arvensis</i>	Field bindweed	Urban/ruderal
<i>Cyperus</i> sp.	Nutsedge	Emergent wetland
<i>Eriodictyon californicum</i>	Yerba santa	
<i>Eucalyptus</i> sp.	Eucalyptus	Urban, Ruderal
<i>Fraxinus latifolia</i>	Oregon ash	Riparian
<i>Heteromeles arbutifolia</i>	Toyon	Mixed oak woodland, chaparral
<i>Juglans californica</i>	California black walnut	
<i>Lepidium</i> sp.	Pepperweed	Riparian
<i>Ludwigia peploides</i>	Creeping water-primrose	Invasive
<i>Phytolacca americana</i>	Pokeweed	Riparian
<i>Pinus sabiniana</i>	Gray pine	Mixed oak woodland
<i>Platanus racemosa</i>	California sycamore	Riparian
<i>Populus fremontii</i>	Fremont's cottonwood	Riparian
<i>Quercus berberidifolia</i>	Scrub oak	Chaparral
<i>Quercus douglasii</i>	Blue oak	Blue oak woodland, Mixed oak woodland
<i>Quercus lobata</i>	Valley oak	Mixed oak woodland, Riparian
<i>Quercus wislizeni</i>	Interior live oak	Mixed oak woodland
<i>Raphanus raphanistrum</i>	Wild radish	Urban/ruderal

APPENDIX C – PLANT AND WILDLIFE SPECIES OBSERVED DURING THE SITE RECONNAISSANCE

Scientific Name	Common Name	Habitat
<i>Rosa californica</i>	Wild rose	Riparian
<i>Rubus discolor</i>	Himalayan blackberry	Riparian, Emergent Wetland
<i>Rubus ursinus</i>	California blackberry	Riparian, Emergent Wetland
<i>Rumex crispus</i>	Curly dock	Ruderal
<i>Salix sp.</i>	Willow	Riparian, Emergent Wetland
<i>Sambucus mexicana</i>	Blue elderberry	Riparian
<i>Scirpus sp.</i>	Bulrush	Emergent wetland
<i>Symphoricarpos mollis</i>	Creeping snowberry	Riparian
<i>Toxicodendron diversilobum</i>	Poison oak	
<i>Typha latifolia</i>	Broad-leaved cattail	Emergent wetland

TABLE C-2 WILDLIFE SPECIES OBSERVED

List compiled from a survey completed by a PMC biologist on November 12, 2008.

Scientific Name	Common Name	Habitat
Reptiles		
<i>Sceloporus occidentalis</i>	Western fence lizard	Ruderal
Birds		
<i>Agelaius phoeniceus</i>	Red-winged blackbird	Emergent wetland, WWTP
<i>Anas platyrhynchos</i>	Mallard	WWTP
<i>Aphelocoma californica</i>	Western scrub jay	Coastal oak woodland
<i>Ardea alba</i>	Great egret	
<i>Branta canadensis</i>	Canada goose	Estuarine
<i>Bucephala albeola</i>	Bufflehead	
<i>Buteo jamaicensis</i>	Red-tailed hawk	Coastal dune
<i>Carpodacus mexicanus</i>	House finch	Urban/Ruderal
<i>Cathartes aura</i>	Turkey vulture	
<i>Certhia americana</i>	Brown creeper	
<i>Charadrius vociferus</i>	Killdeer	Ruderal

APPENDIX C – PLANT AND WILDLIFE SPECIES OBSERVED DURING THE SITE RECONNAISSANCE

Scientific Name	Common Name	Habitat
<i>Colaptes auratus</i>	Northern Flicker	Mixed oak woodland
<i>Columba livia</i>	Rock pigeon	Urban/Ruderal
<i>Corvus brachyrhynchos</i>	American crow	Urban/Ruderal
<i>Dendroica townsendi</i>	Townsend's warbler	Riparian
<i>Egretta thula</i>	Snowy egret	
<i>Euphagus cyanocephalus</i>	Brewer's blackbird	Urban/Ruderal
<i>Falco mexicanus</i>	Prairie falcon	
<i>Junco hyemalis</i>	Dark-eyed junco	
<i>Melanerpes formicivorus</i>	Acorn woodpecker	Blue oak woodland, mixed oak woodland
<i>Meleagris gallopavo</i>	Wild turkey	Blue oak woodland, Annual grassland
<i>Melospiza melodia</i>	Song sparrow	Emergent wetland
<i>Myiarchus sp.</i>	Flycatchers	
<i>Passer domesticus</i>	House sparrow	Urban/Ruderal
<i>Sayornis nigricans</i>	Black phoebe	Emergent wetland
<i>Sturnella neglecta</i>	Western meadowlark	Annual grassland
<i>Sturnus vulgaris</i>	European starling	Urban/Ruderal
<i>Zenaida macroura</i>	Mourning dove	Urban/Ruderal
Mammals		
<i>Odocoileus hemionus</i>	Black-tailed deer	Riparian
<i>Canis latrans</i>	Coyote	scat
<i>Castor canadensis</i>	Beaver	dam
<i>Felis catus</i>	House cat	
<i>Vulpes vulpes</i>	Red fox	den

APPENDIX 4.9 CULTURAL AND PALEONTOLOGICAL RESOURCES

STATE OF CALIFORNIA

Arnold Schwarzenegger, Governor

NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-6251
Fax (916) 657-5390
Web Site www.nahc.ca.gov
e-mail: de_nahc@pacbell.net



September 25, 2008

Kurt Lambert
PMC
2729 Prospect Park Drive, Suite 220
Rancho Cordova, CA 95670

Sent by Fax: 916-361-1574
Number of Pages: 2

Re: Proposed City of Ione General Plan EIR, Amador County

Dear Ms. Lambert:

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Amador County
September 25, 2008

✓ Dwight Dutschke 9820 5 Mile Drive Lone , CA 95640 ✓(916) 653-9134 Work	Miwok	✓ Calaveras Band of Miwok Indians Debra Grimes, Cultural Res. Specialist PO Box 1015 West Point , CA 95255 (209) 293-4135 - Tribal Office	Me-Wuk
✓ Randy Yonemura 4305 - 39th Avenue Sacramento , CA 95824 honortraditions@mail.com (916) 421-1600	Miwok	✓ Lone Band of Miwok Indians Matthew Franklin, Chairperson PO Box 1190 Lone , CA 95640 matt@ionemiwok.org (209) 274-6753 (209) 274-6636 Fax	Miwok
✓ Kenneth Counsil 4209 V Street #5 Sacramento , CA 95817 mrken@sonic.net 916-457-7144 - Home 916-213-3934 - cell	Miwok Maidu	✓ Lone Band of Miwok Indians Heritage Cultural Committee PO Box 1190 Lone , CA 95640 (209) 274-6753 (209) 274-6636 Fax	Miwok
✓ Buena Vista Rancheria Rhonda Morningstar Pope, Chairperson PO Box 162283 Sacramento , CA 95816 rhonda@buenavistatribe.com 916 491-0011 916 491-0012 - fax	Me-Wuk / Miwok	✓ Jackson Band of Mi-Wuk Indians Margaret Dalton, Chairperson P.O. Box 1090 Jackson , CA 95642 d.keeney@jacksoncasino.com (209) 223-1935 (209) 223-5366 - Fax	Me-Wuk - Miwok -

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed lone General Plan, Amador County.



FAX TRANSMITTAL

Date: Sept. 22, 2008

To: Debbie Pilas-Treadway
Native American Heritage Commission

From: Kurt Lambert

Fax: 916-657-5390

Pages: 4

Cc:

Re: Request for Sacred Lands Search

The following document is:

☐ Urgent

☐ For Your Records

☒ Please Respond

Dear Debbie:

Attached is a supplement sacred lands search request for the Ione General Plan EIR in the City of Ione, Amador County that I sent in September 16, 2008. Karen wished for a breakdown including Sections, so I have included that here. I have also included a map of the project area, including the quad names (Carbondale, Ca., Irish Hill, Ca., Goose Creek, Ca., and Ione, Ca.) and township and ranges (T5N, R9E; T5N, R10E; T6N, R9E; and T6N, R10E, and an unsectioned portion of the Arroyo Seco land grant MDBM). Please call me if you have any questions regarding the project or if the map did not FAX well. Thanks.

PMC Phone: 916-361-8384

PMC Fax: 916-361-1574

2729 Prospect Park Drive, Suite 220
Rancho Cordova, CA 95670



September 22, 2008

Debbie Pilas-Treadway
NATIVE AMERICAN HERITAGE COMMISSION
915 Capitol Mall
Room 364
Sacramento, CA 95814

RE: SACRED LANDS SEARCH FOR THE IONE GENERAL PLAN EIR

Dear Ms. Pilas-Treadway:

PMC is preparing the environmental documents, including cultural resources studies, for the Ione General Plan EIR in the City of Ione, Amador County. I am requesting a sacred lands search and a list of Native American contacts for the project area. I have included maps of the project area, including the quad names (Carbondale, Ca., Irish Hill, Ca., Goose Creek, Ca., and Ione, Ca.) and township and ranges (T5N, R9E; T5N, R10E; T6N, R9E; and T6N, R10E, and an unsectioned portion of the Arroyo Seco land grant MDBM). Please do not hesitate to contact me if you have any concerns or questions regarding this project.

Carbondale, Ca. Quadrangle

T6N, R9 E unsectioned portion of Arroyo Seco Land Grant

Irish Hill, Ca. Quadrangle

T6N, R9E unsectioned portion of Arroyo Seco Land Grant

T6N, R10E Sections 7 and 18

Goose Creek, Ca. Quadrangle

T5N, R9E unsectioned portion of Arroyo Seco Land Grant

T6N, R9E unsectioned portion of Arroyo Seco Land Grant

Ione, Ca. Quadrangle

T5N, R9E unsectioned portion of Arroyo Seco Land Grant

T5N, R10E Section 6

T6N, R9E unsectioned portion of Arroyo Seco Land Grant

T6N, R10E Sections 18, 19, 29, 30, 31 and 32



Sincerely,

A handwritten signature in black ink, appearing to read "Kurt Lambert". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Kurt Lambert
Cultural Resources Specialist

PMC
2729 Prospect Park Dr. Suite 220
Rancho Cordova, Ca. 95670
(916) 361-8384
(916) 361-1574 (fax)

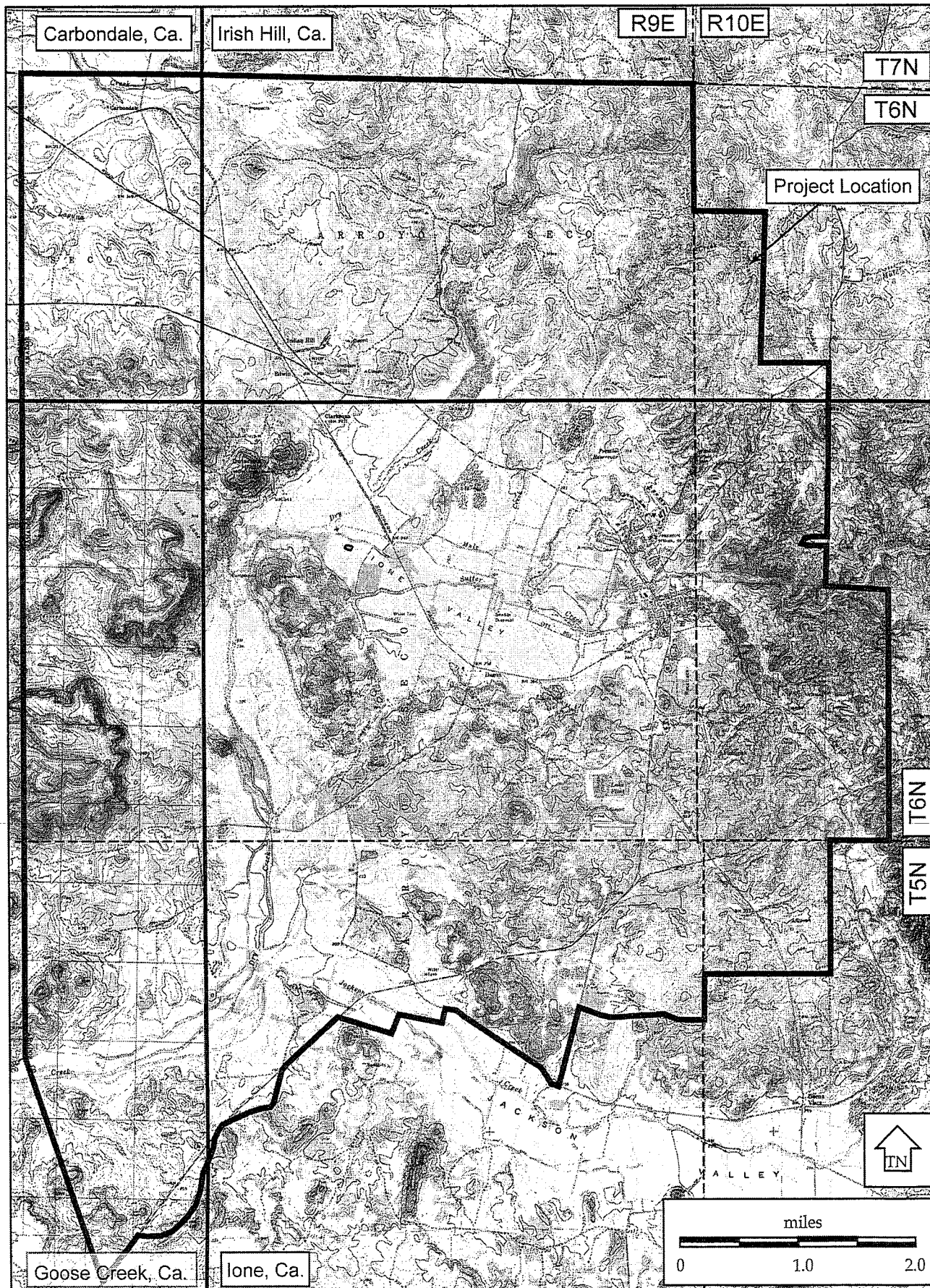


Figure 2. Project Location Map.

SOURCE: National Geographic TOPOI; San Francisco CD; 2003 showing the Carbondale, Ca., Goose Creek, Ca., Irish Hill, Ca., and Lone, Ca. quadrangles; T5N, R10E; T5N, R9E; T6N, R9E; and T6N, R10E.



FAX TRANSMITTAL

Date: Sept. 22, 2008

To: Debbie Pilas-Treadway
Native American Heritage Commission

From: Kurt Lambert

Fax: 916-657-5390

Pages: 4

Cc:

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☐ For Your Records

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PMC Phone: 916-361-8384

PMC Fax: 916-361-1574

2729 Prospect Park Drive, Suite 220
Rancho Cordova, CA 95670



September 22, 2008

Debbie Pilas-Treadway
NATIVE AMERICAN HERITAGE COMMISSION
915 Capitol Mall
Room 364
Sacramento, CA 95814

RE: SACRED LANDS SEARCH FOR THE IONE GENERAL PLAN EIR

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T5N, R9E unsectioned portion of Arroyo Seco Land Grant

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Ione, Ca. Quadrangle

T5N, R9E unsectioned portion of Arroyo Seco Land Grant

T5N, R10E Section 6

T6N, R9E unsectioned portion of Arroyo Seco Land Grant

T6N, R10E Sections 18, 19, 29, 30, 31 and 32



Sincerely,

Kurt Lambert
Cultural Resources Specialist

PMC
2729 Prospect Park Dr. Suite 220
Rancho Cordova, Ca. 95670
(916) 361-8384
(916) 361-1574 (fax)

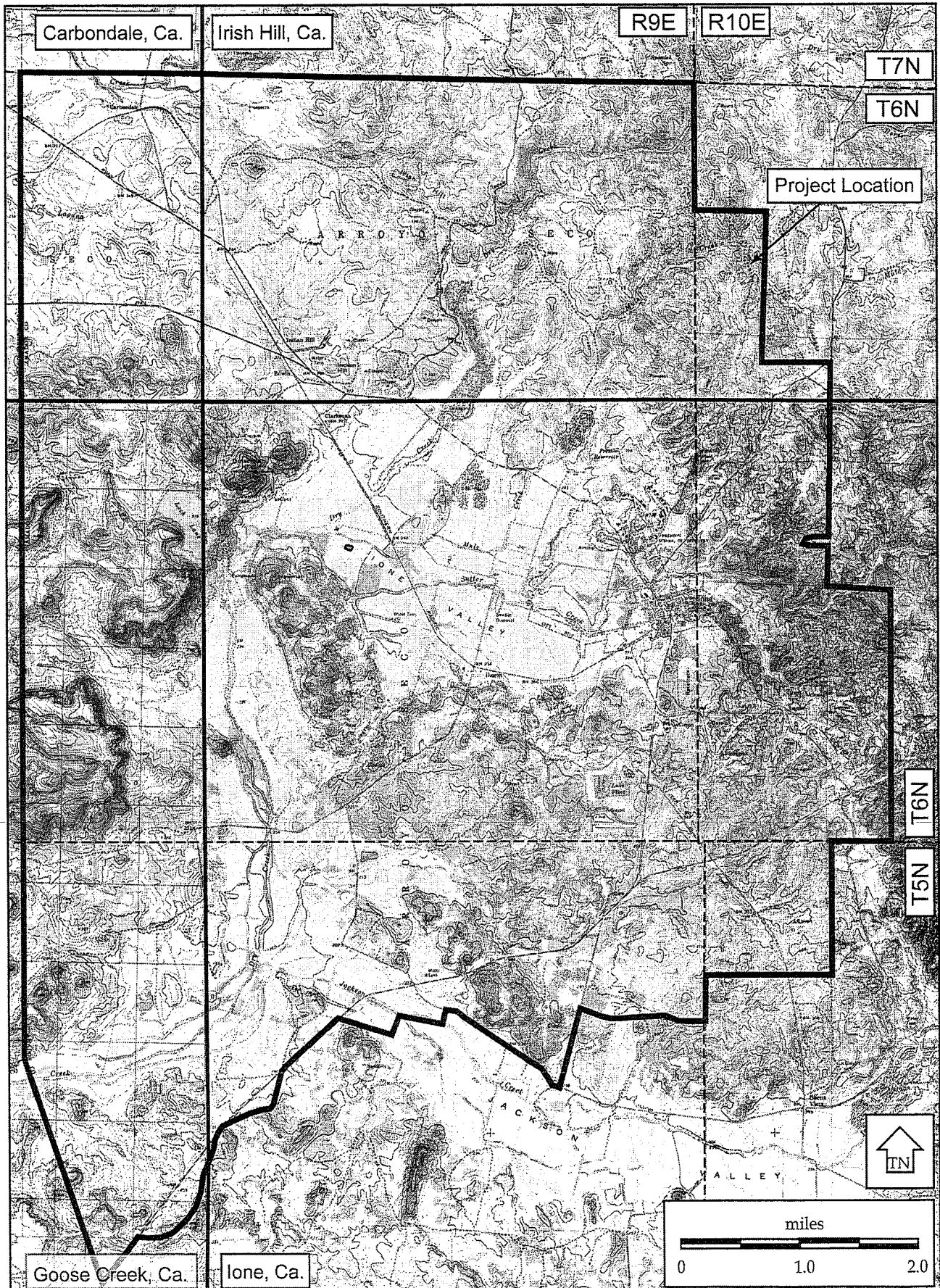


Figure 2. Project Location Map.

SOURCE: National Geographic TOPOI; San Francisco CD; 2003 showing the Carbondale, Ca., Goose Creek, Ca., Irish Hill, Ca., and Ione, Ca. quadrangles; T5N, R10E; T5N, R9E; T6N, R9E; and T6N, R10E.



LOCAL GOVERNMENT
TRIBAL CONSULTATION LIST REQUEST
NATIVE AMERICAN HERITAGE COMMISSION
915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-4082
(916) 657-5390 - FAX

Project Title: General Plan Update

Local Government/Lead Agency: City of Ione

Contact Person: John Nadolski

Street Address: 2729 Prospect Park Drive Ste. 220

City: Rancho Cordova **Zip:** 95670

Phone: 916-361-8384

Fax: 916-361-1574

Specific Area Subject to Proposed Action:

County: Amador

City/Community: City of Ione

Local Action Type:

☒ General Plan Update

☐ General Plan Element

☐ Specific Plan

☐ General Plan Amendment

☐ Specific Plan Amendment

☐ Pre-planning Outreach Activity

Project Description:

General Plan Update; The City of Ione General Plan Update will address the State-mandated requirements and local issues through inclusion of the following Elements: Infrastructure and Public Services, Land Use, Housing, and Circulation. The City will also be proposing an expansion of its Sphere of Influence (SOI) and Planning Area to accommodate the City's growth over the next 20-years.

NAHC Use Only

Date Received: _____

Date Completed _____

Native American Tribal Consultation lists are only applicable for consulting with California Native American tribes per Government Code Section 65352.3.

STATE OF CALIFORNIAArnold Schwarzenegger, Governor**NATIVE AMERICAN HERITAGE COMMISSION**

915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-6251
Fax (916) 657-5390
Web Site www.nahc.ca.gov
e-mail: ds_nahc@pacbell.net



September 25, 2008

Kurt Lambert
PMC
2729 Prospect Park Drive, Suite 220
Rancho Cordova, CA 95670

Sent by Fax: 916-361-1574
Number of Pages: 2

Re: Proposed City of Ione General Plan EIR, Amador County

Dear Ms. Lambert:

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts

Amador County
September 25, 2008

- | | | | |
|--|------------------------|--|-------------------------|
| <p>✓ Dwight Dutschke
9820 5 Mile Drive
lone , CA 95640
✓(916) 653-9134 Work</p> | <p>Miwok</p> | <p>✓ Calaveras Band of Miwuk Indians
Debra Grimes, Cultural Res. Specialist
PO Box 1015
West Point , CA 95255
(209) 293-4135 - Tribal Office</p> | <p>Me-Wuk</p> |
| <p>✓ Randy Yonemura
4305 - 39th Avenue
Sacramento , CA 95824
honortraditions@mail.com
(916) 421-1600</p> | <p>Miwok</p> | <p>✓ lone Band of Miwuk Indians
Matthew Franklin, Chairperson
PO Box 1190
lone , CA 95640
matt@ionemiwok.org
(209) 274-6753
(209) 274-6636 Fax</p> | <p>Miwok</p> |
| <p>✓ Kenneth Counsil
4209 V Street #5
Sacramento , CA 95817
mrken@sonic.net
916-457-7144 - Home
916-213-3934 - cell</p> | <p>Miwok
Maidu</p> | <p>✓ lone Band of Miwuk Indians
Heritage Cultural Committee
PO Box 1190
lone , CA 95640
(209) 274-6753
(209) 274-6636 Fax</p> | <p>Miwok</p> |
| <p>✓ Buena Vista Rancheria
Rhonda Morningstar Pope, Chairperson
PO Box 162283
Sacramento , CA 95816
rhonda@buenavistatribe.com
916 491-0011
916 491-0012 - fax</p> | <p>Me-Wuk / Miwok</p> | <p>✓ Jackson Band of Mi-Wuk Indians
Margaret Dalton, Chairperson
P.O. Box 1090
Jackson , CA 95642
d.keeney@jacksoncasino.com
(209) 223-1935
(209) 223-5366 - Fax</p> | <p>Me-Wuk - Miwok -</p> |

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed lone General Plan, Amador County.

Native American Contacts
Amador County
September 25, 2008

Jackson Band of Mi-Wuk Indians

Sam Baugh, Cultural Resources Rep

1580 Long Gate Road

Plymouth, CA 95669

samwbaugh@amadorca.com

(209) 245-3941

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Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Ione General Plan, Amador County.