

Trails to California: Hudspeth Cutoff 1849

SUMMARY RESEARCH REPORT

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This Summary Research Report, with GPS data and an abstract of the route, documents the Hudspeth Cutoff wagon road of the California Trail in Idaho. The research is based on historical maps and travelers' Journals & Dairies.

This is one of a series of many Summary Research Reports on Indian trails, explorer trails, fur trapper trails, and early emigrant trails, wagon roads, railroads and automobile roads. Each report will contain a short description of the transportation route and Global Positioning System data on the trail trace. The author's intention is to write detailed research reports as time permits.



RESEARCHER IDENTIFICATION	
The researcher named below has duly applied to use records administered by the National Archives of the United States.	
NAME <u>Steve Russell</u>	CARD NO. <u>A85-228</u>
SIGNATURE <u>Steve Russell</u>	VALID THROUGH <u>8-5-87</u>
The use of records is subject to published regulations (41 CFR 105-61) and is not implicit in possession of this card.	
ISSUED BY (Signature) <u>John A. Dwyer</u>	DATE <u>8/5/85</u>
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Trails to California: Hudspeth Cutoff Road 1846

ACKNOWLEDGMENTS

Thanks to Kris Townsend for his assistance in making my research documents suitable for web publishing and for his gracious hosting of my trail research on his website, TrailResearch.org: <https://trailresearch.org/index.php>

Thanks to Tony & Jeanne Varilone, of Soda Springs, Idaho, for logistical support while I was in the Soda Springs area.

*Please Respect Private Property Rights
and
Please Preserve Trail Sites and Erosion Traces*

It is my hope that trail researchers will use this research report as the basis for future research that will improve our knowledge of the Hastings Road.

Steve F. Russell

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Abstract

In 1849, Benoni M. Hudspeth and John J. Myers pioneered a wagon road from Soda Springs to the California Trail, southwest of Malta, Idaho ¹. The Hudspeth-Myers Cutoff Road 1849 (commonly called the Hudspeth Cutoff) bypassed the longer wagon road from Soda Springs to the Oregon-California Trail via Fort Hall. There were two tradeoffs: 1) the cutoff required the strenuous crossing of several north-south mountain ridges (the Fort Hall route only required the crossing of the Portneuf Range), and 2) the resupply opportunity at Fort Hall was missed.

The Fort Hall route was about 134 miles while the Hudspeth route was about 113 miles, a savings of about 21 miles (out of 134 miles). Was it worth it? Probably not, because, when traveling by wagon, acceptably longer travel distances were preferred over multiple ascents and descents. It is doubtful that much, if any, travel time was saved ². However, the Hudspeth Cutoff became a very popular route, for California Gold seekers, during the 1850s. Hensley's Salt Lake Alternate was also popular because of the excellent resupply available from the Mormon settlers.

For more detailed historical accounts of this trail, consult the Bibliography. This Summary Research Report provides the following information:

1. Detailed GPS waypoint information for the route, at a resolution of 16 waypoints-per-mile
2. A Simplified (Skeleton) Map of the route, MAP-A
3. A distance-comparison map of the Hudspeth and Fort Hall routes. (Map-B)
4. Elevation Profile for the Hudspeth Cutoff Road, Map-C.
5. Elevation Profile for the Fort Hall Route, Map-D.
6. A Large-Scale Research Map of the route, Map-E
7. A Research Map of the Cutoff Road in Relationship to Surrounding Trails., Map-F.
8. Attachments of GPS Waypoints.
9. Hard-Copy of the GPS Waypoints.

GPS Waypoints for the Route

Steve F. Russell

Viewing Attachments in Adobe Acrobat

The waypoints data sets are provided in embedded files in the following GIS formats: .GPX and .CSV. To access these embedded attachments in Adobe Acrobat, you must access the "attachments" function.

Directions for Acrobat Reader and Adobe Acrobat Pro, start with the main menu and choose:

View > Show/Hide > Navigation Panes > Attachments

Directions for Adobe Acrobat Pro 8, start with the main menu and choose:

View > Navigation Panels > Attachments

You can also click on the [paper clip icon](#) at the bottom of the left panel.

Directions for Acrobat Reader 7, start with the main menu and choose:

View > Navigation Tabs > Attachments

You can also click on the "Attachments" tab on the left side of the main window.

You can save the attachments to your computer from the window displayed.

The embedded waypoints are in order of the route westward from Soda Springs to the California Trail, southwest of Malta, Idaho.

The Format for the comma delimited file (.csv) is: Waypoint Number, Latitude,

¹ Some researchers estimate that the wagon company contained 250 people and 70 wagons.

² It modern times, wagon routes are analogous to biking routes, and bikers prefer longer routes to avoid rigorous ascents and descents. The RAGBRAI ride in Iowa in July is a good example.

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Longitude, Label. The prefix "HD" represents Hudspeth's route. The prefixes Alt. Rt. (A,B,C,D) refer the four alternate routes used by the emigrants.

Bibliography

Published original journals of emigrants on the Oregon-California Trail as maintained in the archives of the Oregon-California Trails Association. The URL for this information is:

<https://www.octa-journals.org/>

Various original maps available on the Internet, the US National Archives, and the David Rumsey map collection at Stanford University (now Cartography Associates).

<https://www.davidrumsey.com/>

Emigrant Trails of Southern Idaho: Adventures in the Past — Idaho Cultural Resource Series, Number 1, Department of the Interior, Bureau of Land Management, Idaho State Historical Society, First Edition, January 1993. Technical Editors: Daniel J. Hutchison, Bureau of Land Management, Larry R. Jones, Idaho State Historical Society.

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Survey Plats and Field Notes, U.S. Department of the Interior, Bureau of Land Management, General Land Office Records. <https://glorerecords.blm.gov/>

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Hudspeth's Cutoff, Southeastern Idaho; a Map and Composite Diary, Howard Ross Cramer (Emory University, Consultant), Burley, Idaho : Bureau of Land Management, Burley District, 1969.

<https://archive.org/details/hudspethscutoffs00cram/page/n35/mode/2up>

National Park Service National Historic Trails

<https://www.arcgis.com/apps/webappviewer/index.html?id=24fc463363f54929833580280cc1a751>

Satellite photos from the Internet site: <https://www.google.com/mymaps>.

Trails to California: Hudspeth Cutoff Road 1846

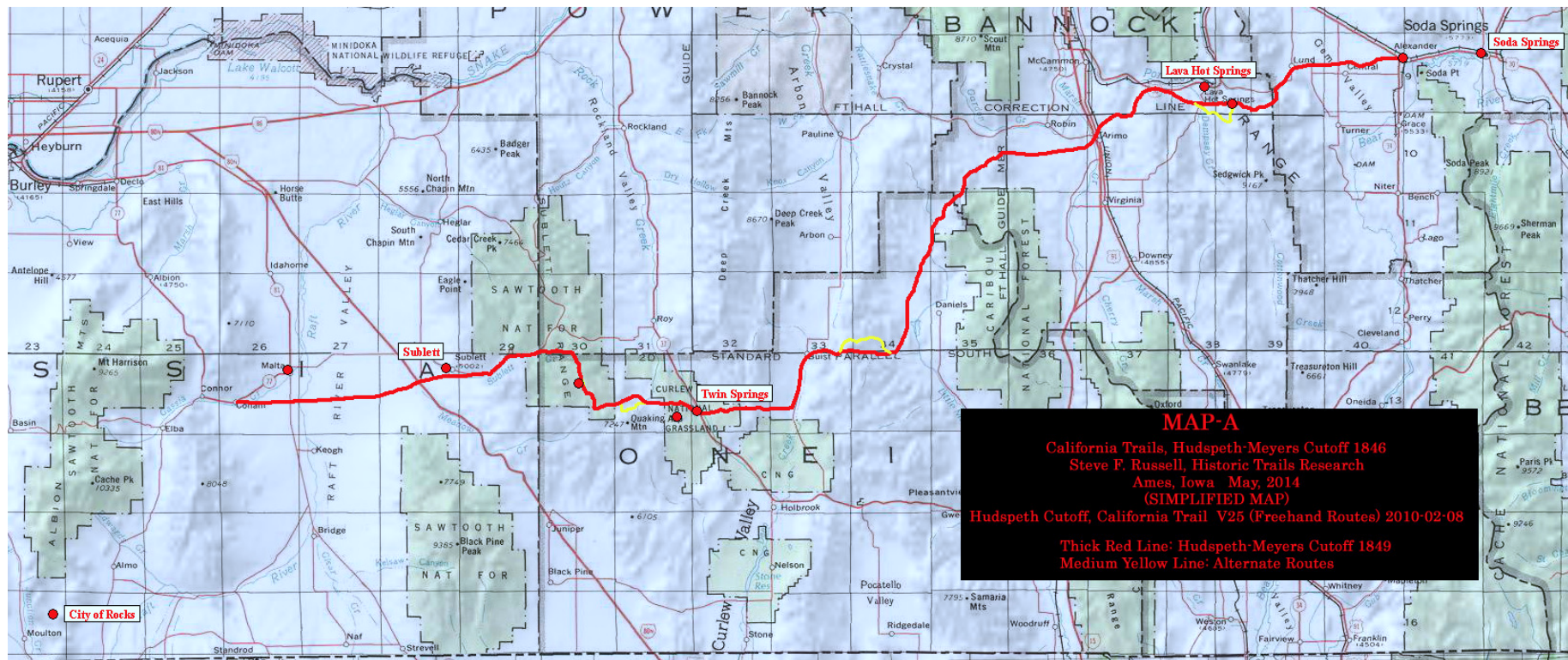
Maps

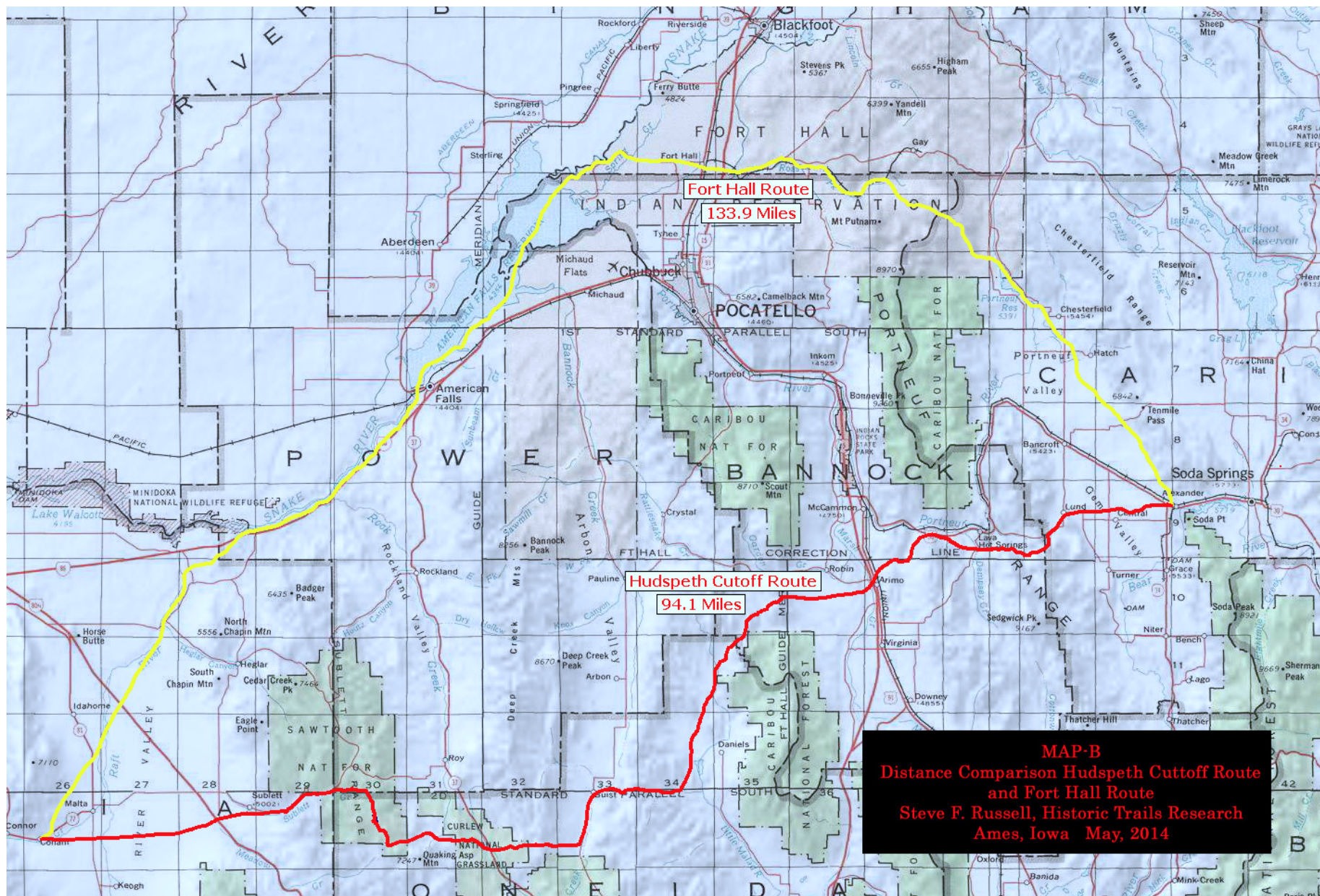
MAP-A	California Trails, Hudspeth-Myers Cutoff 1846 (Simplified Map)
MAP-B	Distance Comparison between the Hudspeth-Myers Cutoff and Fort Hall Route.
MAP-C	Elevation Profile for the Hudspeth Cutoff Road.
MAP-D	Elevation Profile for the Fort Hall Route.
MAP-E	California Trails, Hudspeth-Myers Cutoff 1846 (Large-Scale Research Map)
MAP-F	Hudspeth Cutoff, California Trail, 1849 and Surrounding Area (California Trail, Oregon Trail, California-Oregon Trail)

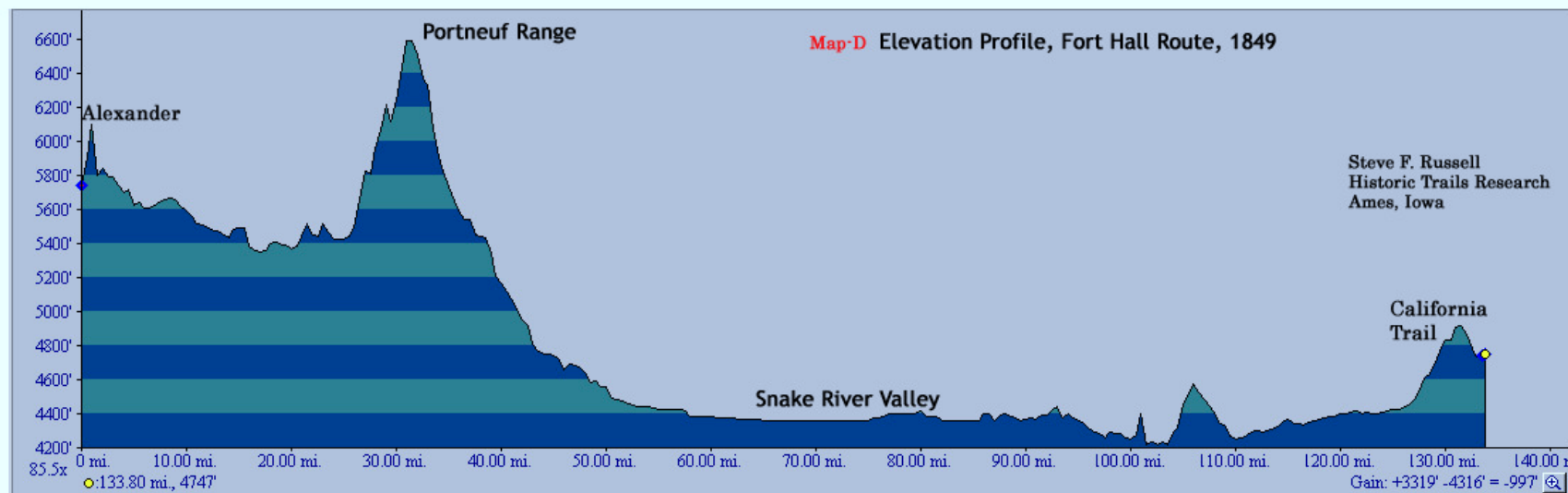
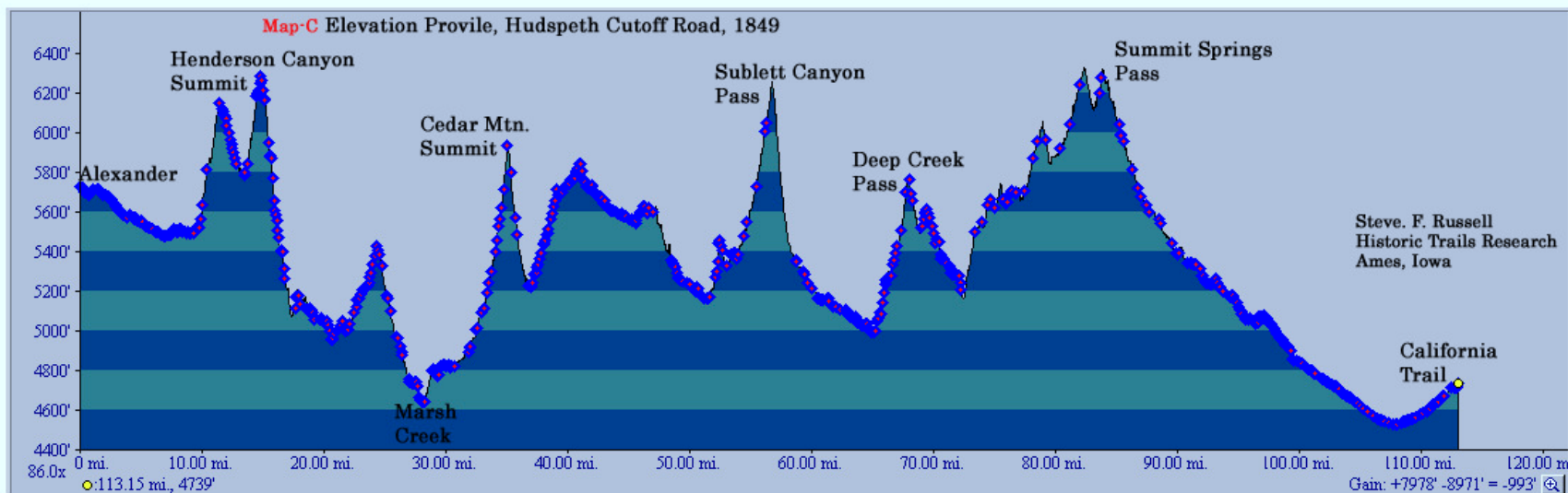
Placenames/Landmarks, Beginning to End

Soda Springs, Alexander, Alexander Crater, Buckskin Mountain, Fish Creek Range, Fish Creek, Henderson Canyon, Lava Hot Springs, Dempsey Creek, Portneuf River, East Sublette Road, Arimo, West Sublette Road, Cedar Mountain, Hawkins Basin, Hermitsville Road, Dairy Creek Road, Dairy Creek, Little Malad Spring, Daniels Reservoir, Sublette Canyon, old Sublette Road, Deep Creek, Buist, Arbon Valley, Deep Creek Mountains, Cedarhill, Twin Springs, Holloway Canyon, South Fork Rock Creek, Pine Springs, Summit Springs, Summit Springs Pass, South Fork Sublett Creek, South Fork Spring, Sublett Reservoir, Sublett Creek, Meadow Creek, Raft River, Cassia Creek.

The maps must be viewed by using the Magnification and Scroll features in Adobe Acrobat.







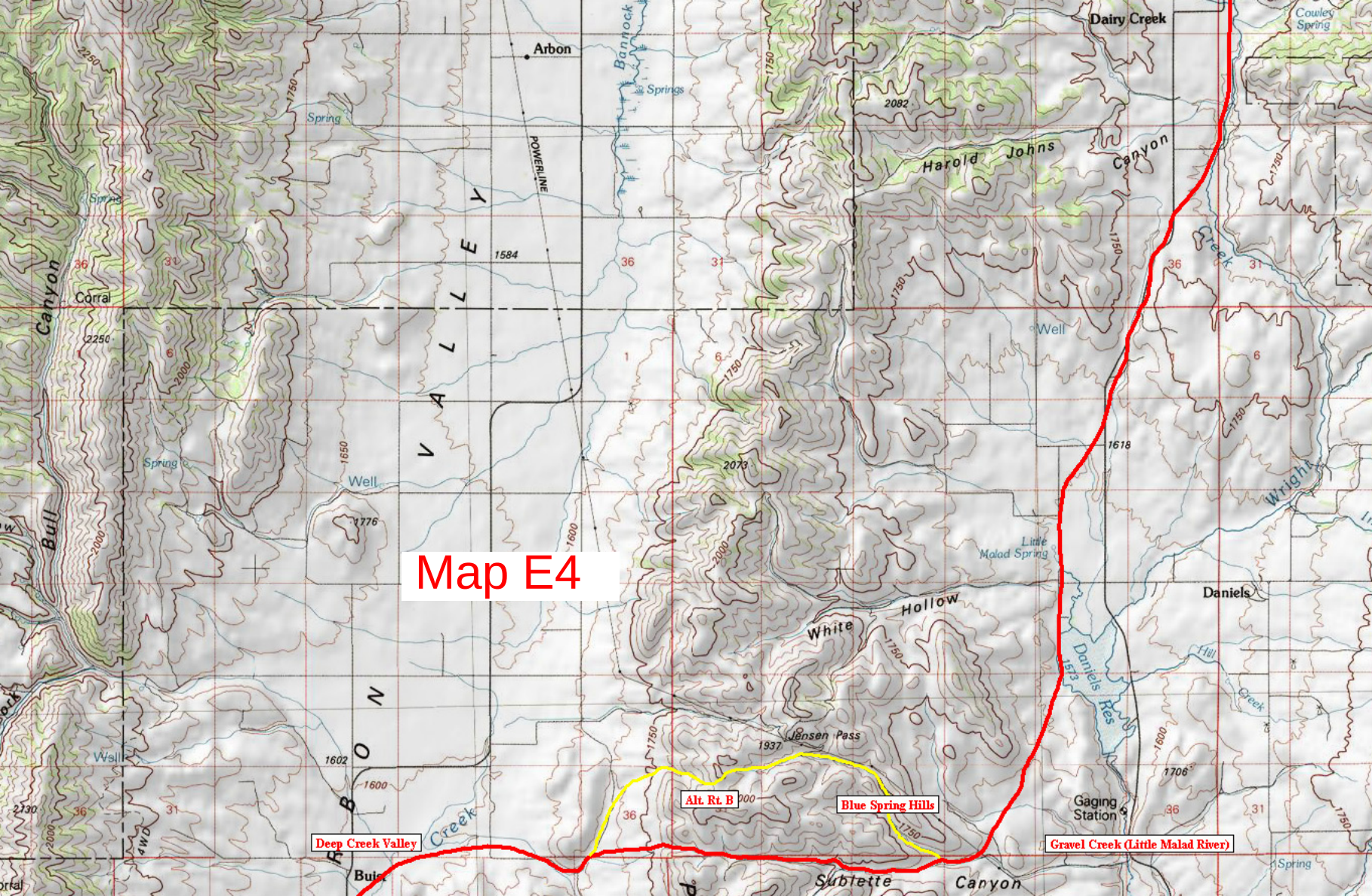




Hawkins Creek

Dairy Creek (Roseaux or Reed Cr.)

Map E3



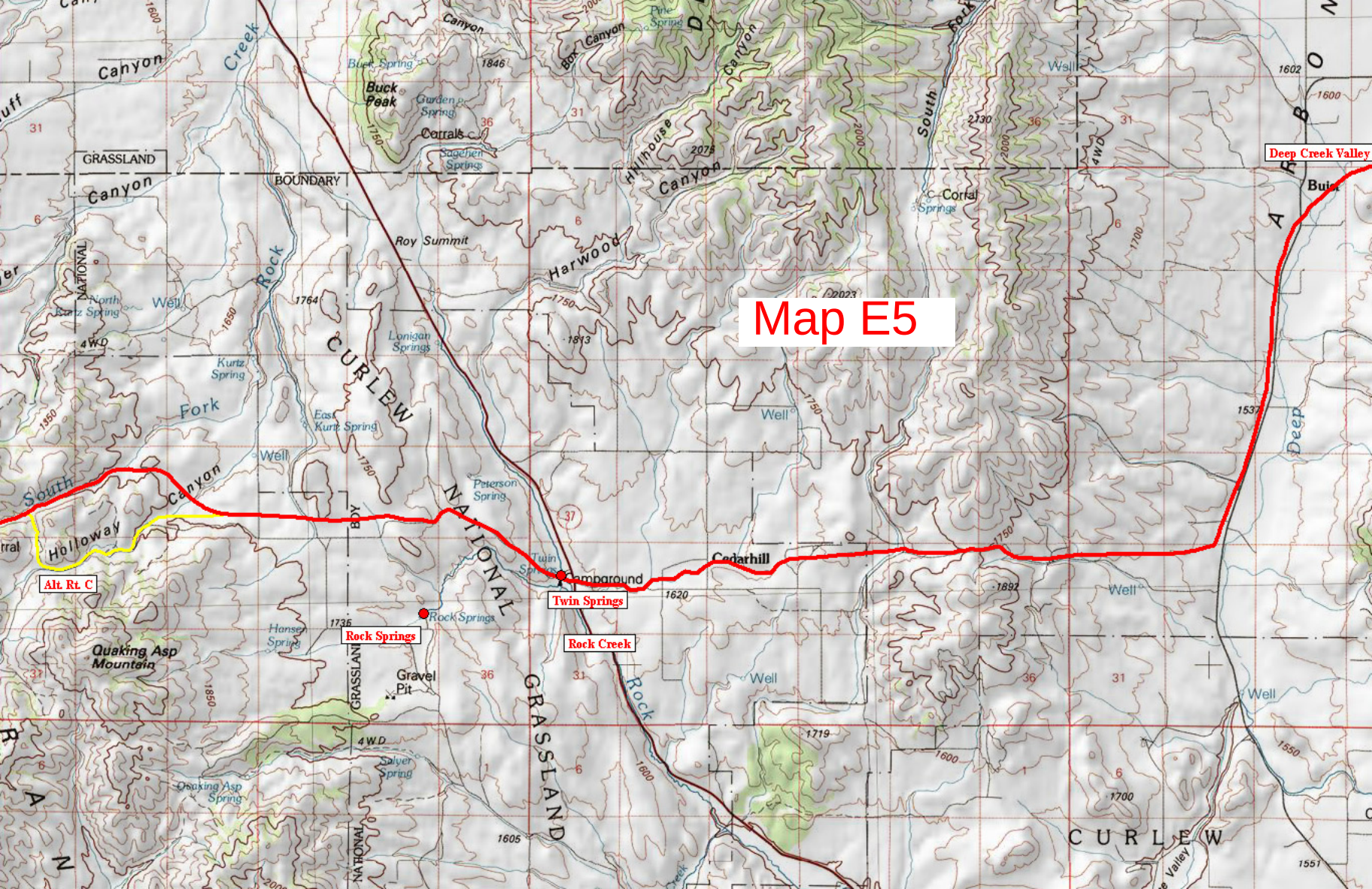
Map E4

Deep Creek Valley

Alt. Rt. B

Blue Spring Hills

Gravel Creek (Little Malad River)



Map E5

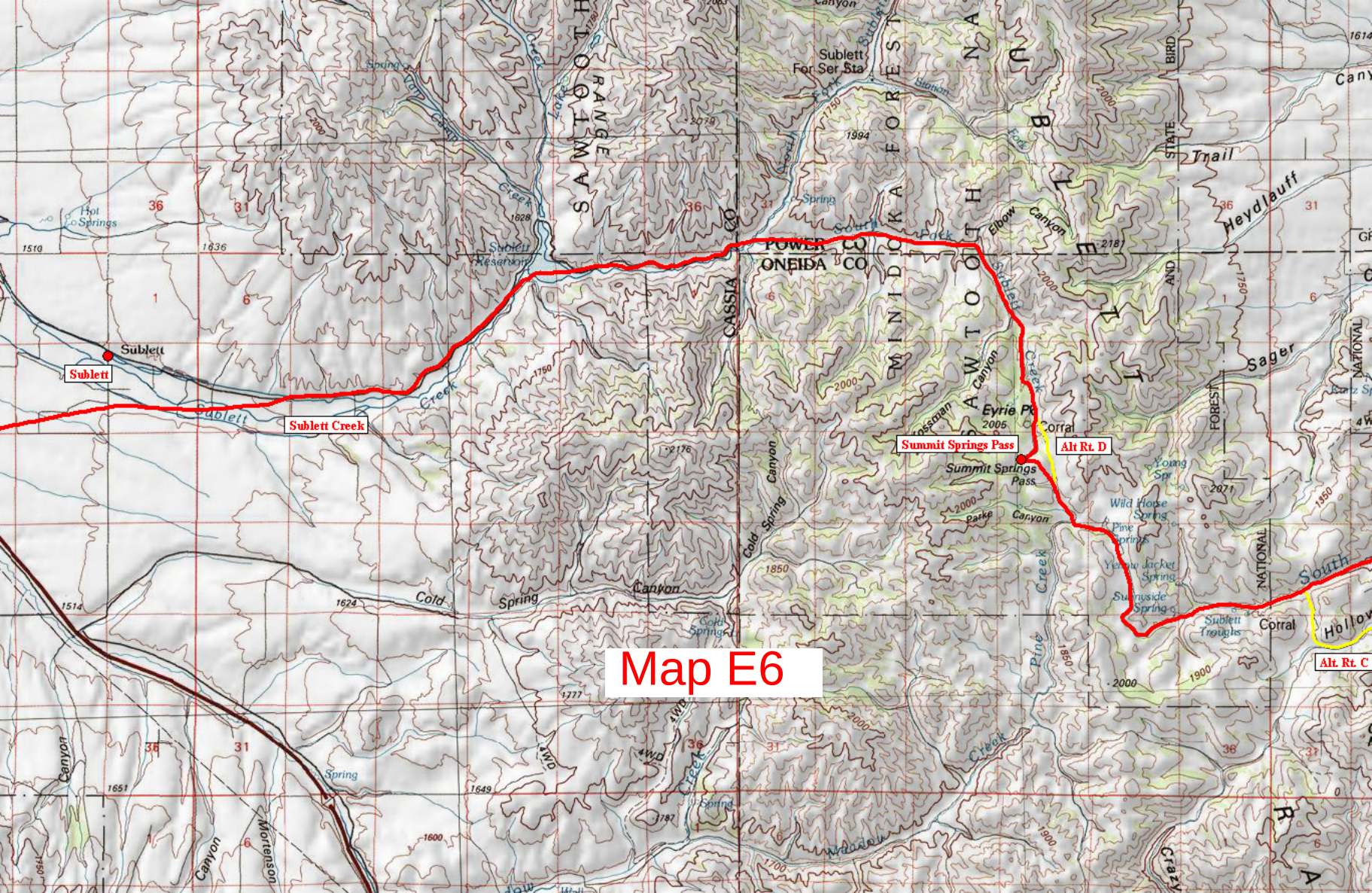
Alt. Rt. C

Rock Springs

Twin Springs

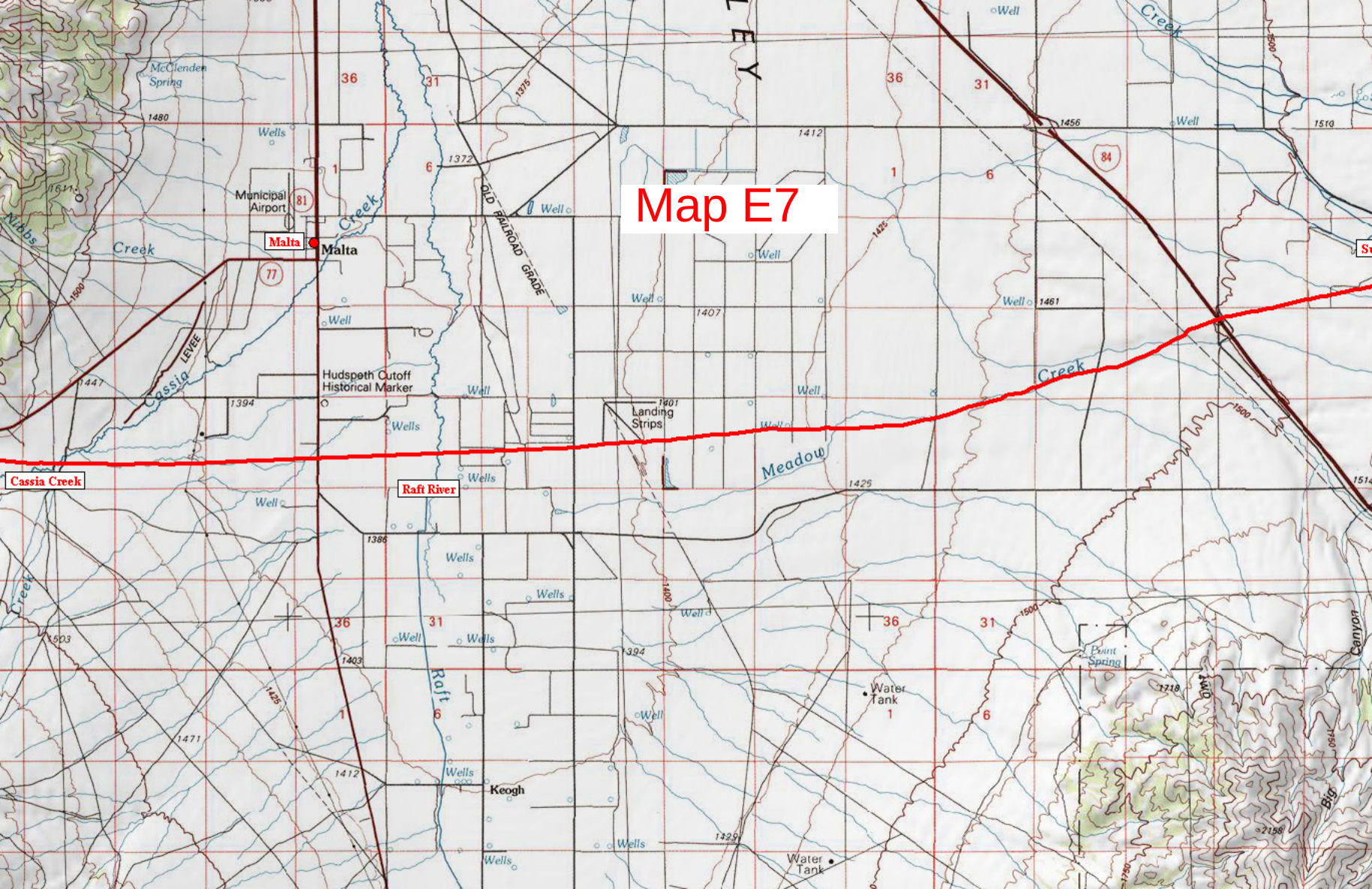
Rock Creek

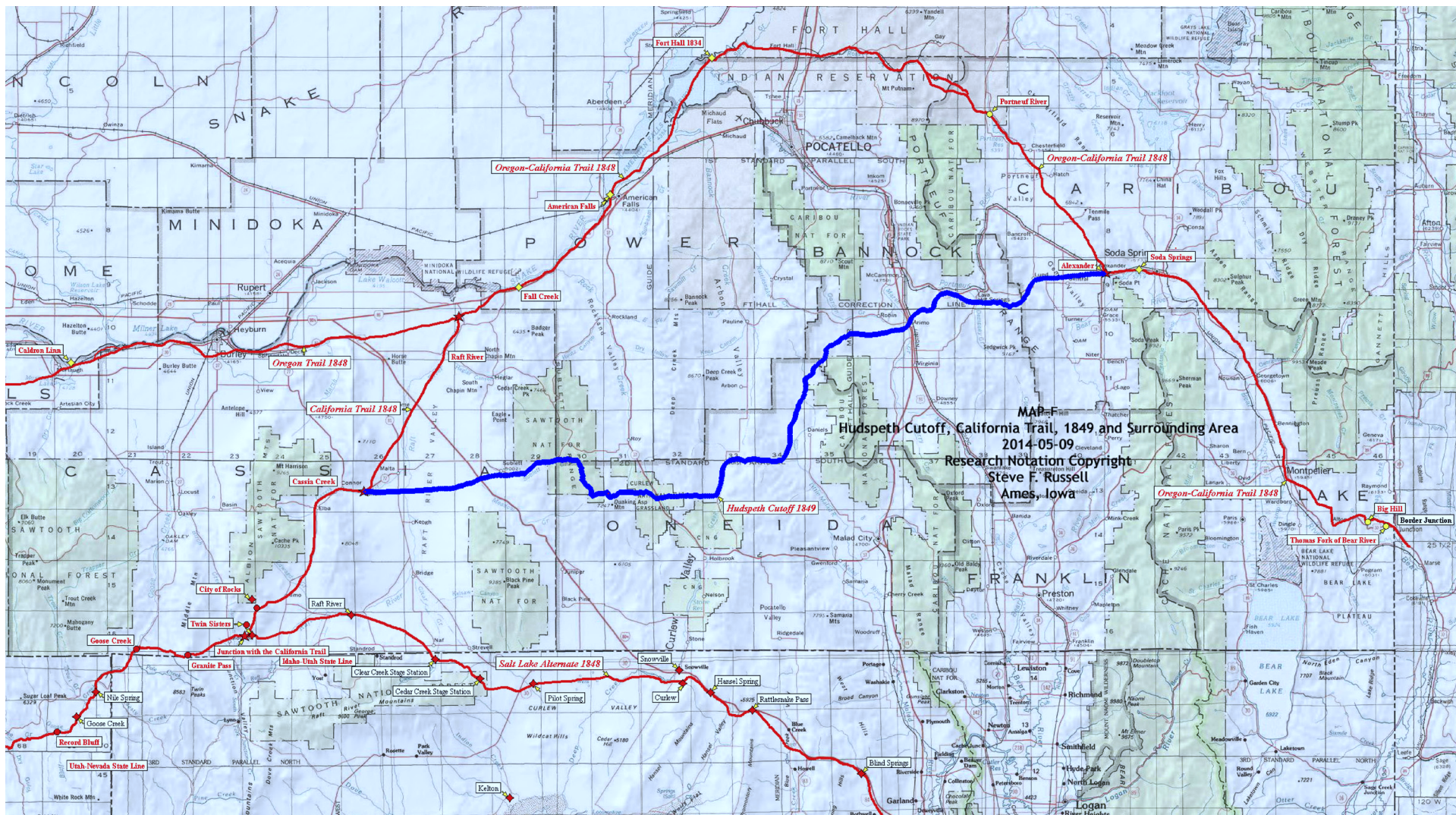
Deep Creek Valley



Map E6

Map E7





MAP-F
Hudson Cutoff, California Trail, 1849, and Surrounding Area
2014-05-09
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Trails to California: Hudspeth Cutoff Road 1846

GPS Waypoint Dataset

East to West

(Name, Latitude, Longitude, WGS84)

Main Wagon Route (HP)			HP1052	42.64162	-111.77992	HP1104	42.64229	-111.84237
HP1001	42.64988	-111.71983	HP1053	42.64138	-111.78111	HP1105	42.64227	-111.84361
HP1002	42.64988	-111.72106	HP1054	42.64136	-111.78234	HP1106	42.64225	-111.84484
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HP1005	42.65005	-111.72473	HP1057	42.64201	-111.78589	HP1109	42.64212	-111.84853
HP1006	42.65013	-111.72595	HP1058	42.64240	-111.78701	HP1110	42.64207	-111.84976
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HP1209	42.59486	-111.93560	HP1268	42.60013	-112.00150	HP1327	42.61338	-112.06966
HP1210	42.59422	-111.93647	HP1269	42.59991	-112.00266	HP1328	42.61350	-112.07089
HP1211	42.59377	-111.93753	HP1270	42.59987	-112.00389	HP1329	42.61376	-112.07207
HP1212	42.59357	-111.93873	HP1271	42.59970	-112.00511	HP1330	42.61408	-112.07322
HP1213	42.59310	-111.93976	HP1272	42.59944	-112.00618	HP1331	42.61444	-112.07435
HP1214	42.59292	-111.94097	HP1273	42.59921	-112.00733	HP1332	42.61480	-112.07549

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HP1333	42.61508	-112.07666	HP1392	42.58698	-112.12533	HP1451	42.56075	-112.17848
HP1334	42.61539	-112.07782	HP1393	42.58722	-112.12652	HP1452	42.55993	-112.17900
HP1335	42.61567	-112.07899	HP1394	42.58684	-112.12761	HP1453	42.55916	-112.17965
HP1336	42.61593	-112.08017	HP1395	42.58665	-112.12881	HP1454	42.55843	-112.18037
HP1337	42.61614	-112.08137	HP1396	42.58650	-112.13002	HP1455	42.55778	-112.18124
HP1338	42.61636	-112.08257	HP1397	42.58626	-112.13121	HP1456	42.55712	-112.18206
HP1339	42.61659	-112.08376	HP1398	42.58596	-112.13237	HP1457	42.55647	-112.18293
HP1340	42.61674	-112.08497	HP1399	42.58594	-112.13360	HP1458	42.55588	-112.18386
HP1341	42.61678	-112.08620	HP1400	42.58617	-112.13477	HP1459	42.55529	-112.18480
HP1342	42.61673	-112.08743	HP1401	42.58656	-112.13587	HP1460	42.55474	-112.18579
HP1343	42.61671	-112.08867	HP1402	42.58720	-112.13675	HP1461	42.55419	-112.18677
HP1344	42.61666	-112.08990	HP1403	42.58781	-112.13767	HP1462	42.55368	-112.18778
HP1345	42.61644	-112.09109	HP1404	42.58819	-112.13876	HP1463	42.55331	-112.18890
HP1346	42.61617	-112.09227	HP1405	42.58833	-112.13998	HP1464	42.55278	-112.18989
HP1347	42.61595	-112.09346	HP1406	42.58842	-112.14120	HP1465	42.55238	-112.19099
HP1348	42.61573	-112.09466	HP1407	42.58845	-112.14244	HP1466	42.55209	-112.19215
HP1349	42.61551	-112.09586	HP1408	42.58833	-112.14366	HP1467	42.55201	-112.19338
HP1350	42.61528	-112.09705	HP1409	42.58804	-112.14483	HP1468	42.55186	-112.19459
HP1351	42.61501	-112.09823	HP1410	42.58769	-112.14596	HP1469	42.55170	-112.19580
HP1352	42.61472	-112.09940	HP1411	42.58732	-112.14709	HP1470	42.55155	-112.19701
HP1353	42.61442	-112.10056	HP1412	42.58693	-112.14821	HP1471	42.55146	-112.19823
HP1354	42.61408	-112.10170	HP1413	42.58650	-112.14929	HP1472	42.55133	-112.19945
HP1355	42.61368	-112.10281	HP1414	42.58605	-112.15036	HP1473	42.55121	-112.20066
HP1356	42.61330	-112.10393	HP1415	42.58557	-112.15141	HP1474	42.55112	-112.20189
HP1357	42.61290	-112.10501	HP1416	42.58502	-112.15238	HP1475	42.55098	-112.20310
HP1358	42.61219	-112.10577	HP1417	42.58440	-112.15328	HP1476	42.55084	-112.20432
HP1359	42.61142	-112.10642	HP1418	42.58383	-112.15425	HP1477	42.55070	-112.20553
HP1360	42.61064	-112.10705	HP1419	42.58328	-112.15523	HP1478	42.55056	-112.20675
HP1361	42.60986	-112.10769	HP1420	42.58271	-112.15619	HP1479	42.55043	-112.20796
HP1362	42.60910	-112.10835	HP1421	42.58224	-112.15725	HP1480	42.55030	-112.20918
HP1363	42.60842	-112.10917	HP1422	42.58182	-112.15835	HP1481	42.55018	-112.21039
HP1364	42.60773	-112.10997	HP1423	42.58128	-112.15933	HP1482	42.55005	-112.21161
HP1365	42.60701	-112.11073	HP1424	42.58068	-112.16026	HP1483	42.54991	-112.21282
HP1366	42.60636	-112.11158	HP1425	42.58010	-112.16121	HP1484	42.54977	-112.21404
HP1367	42.60573	-112.11248	HP1426	42.57955	-112.16219	HP1485	42.54963	-112.21525
HP1368	42.60505	-112.11329	HP1427	42.57898	-112.16314	HP1486	42.54949	-112.21647
HP1369	42.60432	-112.11403	HP1428	42.57842	-112.16411	HP1487	42.54935	-112.21768
HP1370	42.60356	-112.11471	HP1429	42.57787	-112.16510	HP1488	42.54921	-112.21889
HP1371	42.60270	-112.11507	HP1430	42.57727	-112.16602	HP1489	42.54907	-112.22011
HP1372	42.60183	-112.11542	HP1431	42.57664	-112.16692	HP1490	42.54897	-112.22133
HP1373	42.60094	-112.11567	HP1432	42.57600	-112.16779	HP1491	42.54887	-112.22255
HP1374	42.60005	-112.11592	HP1433	42.57527	-112.16853	HP1492	42.54878	-112.22377
HP1375	42.59916	-112.11621	HP1434	42.57455	-112.16927	HP1493	42.54869	-112.22500
HP1376	42.59828	-112.11649	HP1435	42.57373	-112.16979	HP1494	42.54860	-112.22622
HP1377	42.59738	-112.11670	HP1436	42.57289	-112.17027	HP1495	42.54850	-112.22744
HP1378	42.59648	-112.11684	HP1437	42.57205	-112.17073	HP1496	42.54839	-112.22866
HP1379	42.59557	-112.11697	HP1438	42.57119	-112.17115	HP1497	42.54829	-112.22989
HP1380	42.59468	-112.11717	HP1439	42.57034	-112.17156	HP1498	42.54822	-112.23112
HP1381	42.59381	-112.11750	HP1440	42.56949	-112.17203	HP1499	42.54809	-112.23233
HP1382	42.59296	-112.11796	HP1441	42.56865	-112.17250	HP1500	42.54795	-112.23355
HP1383	42.59213	-112.11845	HP1442	42.56782	-112.17297	HP1501	42.54780	-112.23477
HP1384	42.59135	-112.11908	HP1443	42.56698	-112.17345	HP1502	42.54769	-112.23599
HP1385	42.59055	-112.11967	HP1444	42.56614	-112.17393	HP1503	42.54754	-112.23720
HP1386	42.58975	-112.12026	HP1445	42.56534	-112.17450	HP1504	42.54739	-112.23842
HP1387	42.58896	-112.12087	HP1446	42.56455	-112.17510	HP1505	42.54724	-112.23963
HP1388	42.58817	-112.12148	HP1447	42.56381	-112.17583	HP1506	42.54709	-112.24085
HP1389	42.58740	-112.12212	HP1448	42.56307	-112.17654	HP1507	42.54683	-112.24203
HP1390	42.58677	-112.12295	HP1449	42.56232	-112.17724	HP1508	42.54663	-112.24323
HP1391	42.58668	-112.12417	HP1450	42.56155	-112.17789	HP1509	42.54643	-112.24444

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HP1510	42.54624	-112.24564	HP1569	42.54469	-112.31526	HP1628	42.51572	-112.36868
HP1511	42.54605	-112.24685	HP1570	42.54396	-112.31577	HP1629	42.51481	-112.36874
HP1512	42.54589	-112.24806	HP1571	42.54371	-112.31694	HP1630	42.51391	-112.36892
HP1513	42.54569	-112.24927	HP1572	42.54328	-112.31803	HP1631	42.51302	-112.36915
HP1514	42.54555	-112.25048	HP1573	42.54272	-112.31900	HP1632	42.51214	-112.36944
HP1515	42.54541	-112.25170	HP1574	42.54208	-112.31987	HP1633	42.51125	-112.36971
HP1516	42.54526	-112.25292	HP1575	42.54147	-112.32078	HP1634	42.51036	-112.36999
HP1517	42.54521	-112.25415	HP1576	42.54089	-112.32173	HP1635	42.50948	-112.37030
HP1518	42.54517	-112.25538	HP1577	42.54070	-112.32292	HP1636	42.50860	-112.37060
HP1519	42.54509	-112.25661	HP1578	42.54066	-112.32414	HP1637	42.50771	-112.37087
HP1520	42.54504	-112.25784	HP1579	42.54072	-112.32537	HP1638	42.50684	-112.37119
HP1521	42.54498	-112.25907	HP1580	42.54071	-112.32660	HP1639	42.50596	-112.37153
HP1522	42.54490	-112.26030	HP1581	42.54057	-112.32780	HP1640	42.50510	-112.37194
HP1523	42.54480	-112.26153	HP1582	42.54014	-112.32889	HP1641	42.50425	-112.37235
HP1524	42.54470	-112.26275	HP1583	42.53962	-112.32990	HP1642	42.50343	-112.37288
HP1525	42.54460	-112.26398	HP1584	42.53897	-112.33074	HP1643	42.50265	-112.37351
HP1526	42.54454	-112.26521	HP1585	42.53846	-112.33176	HP1644	42.50194	-112.37428
HP1527	42.54446	-112.26643	HP1586	42.53808	-112.33287	HP1645	42.50121	-112.37502
HP1528	42.54445	-112.26766	HP1587	42.53777	-112.33404	HP1646	42.50047	-112.37573
HP1529	42.54447	-112.26889	HP1588	42.53736	-112.33512	HP1647	42.50005	-112.37677
HP1530	42.54453	-112.27013	HP1589	42.53662	-112.33583	HP1648	42.49971	-112.37791
HP1531	42.54459	-112.27136	HP1590	42.53592	-112.33662	HP1649	42.49927	-112.37898
HP1532	42.54464	-112.27259	HP1591	42.53524	-112.33743	HP1650	42.49880	-112.38004
HP1533	42.54468	-112.27382	HP1592	42.53448	-112.33790	HP1651	42.49830	-112.38107
HP1534	42.54471	-112.27505	HP1593	42.53359	-112.33812	HP1652	42.49786	-112.38215
HP1535	42.54476	-112.27628	HP1594	42.53292	-112.33888	HP1653	42.49735	-112.38315
HP1536	42.54481	-112.27751	HP1595	42.53261	-112.34002	HP1654	42.49674	-112.38406
HP1537	42.54495	-112.27872	HP1596	42.53233	-112.34119	HP1655	42.49614	-112.38499
HP1538	42.54513	-112.27993	HP1597	42.53208	-112.34238	HP1656	42.49547	-112.38582
HP1539	42.54525	-112.28115	HP1598	42.53190	-112.34359	HP1657	42.49477	-112.38661
HP1540	42.54524	-112.28238	HP1599	42.53159	-112.34472	HP1658	42.49406	-112.38738
HP1541	42.54529	-112.28360	HP1600	42.53108	-112.34574	HP1659	42.49332	-112.38809
HP1542	42.54533	-112.28483	HP1601	42.53059	-112.34677	HP1660	42.49263	-112.38888
HP1543	42.54533	-112.28607	HP1602	42.53015	-112.34785	HP1661	42.49205	-112.38983
HP1544	42.54547	-112.28728	HP1603	42.52979	-112.34899	HP1662	42.49156	-112.39086
HP1545	42.54552	-112.28851	HP1604	42.52938	-112.35008	HP1663	42.49111	-112.39193
HP1546	42.54563	-112.28973	HP1605	42.52887	-112.35109	HP1664	42.49067	-112.39301
HP1547	42.54584	-112.29093	HP1606	42.52811	-112.35176	HP1665	42.49027	-112.39411
HP1548	42.54594	-112.29216	HP1607	42.52752	-112.35263	HP1666	42.48988	-112.39522
HP1549	42.54593	-112.29339	HP1608	42.52715	-112.35376	HP1667	42.48945	-112.39631
HP1550	42.54597	-112.29462	HP1609	42.52696	-112.35495	HP1668	42.48873	-112.39703
HP1551	42.54608	-112.29585	HP1610	42.52683	-112.35617	HP1669	42.48792	-112.39758
HP1552	42.54619	-112.29707	HP1611	42.52663	-112.35737	HP1670	42.48708	-112.39806
HP1553	42.54617	-112.29830	HP1612	42.52634	-112.35853	HP1671	42.48624	-112.39849
HP1554	42.54614	-112.29953	HP1613	42.52596	-112.35966	HP1672	42.48537	-112.39887
HP1555	42.54622	-112.30076	HP1614	42.52542	-112.36064	HP1673	42.48448	-112.39911
HP1556	42.54625	-112.30199	HP1615	42.52483	-112.36157	HP1674	42.48358	-112.39924
HP1557	42.54622	-112.30322	HP1616	42.52415	-112.36239	HP1675	42.48267	-112.39926
HP1558	42.54626	-112.30445	HP1617	42.52340	-112.36308	HP1676	42.48176	-112.39930
HP1559	42.54632	-112.30568	HP1618	42.52266	-112.36379	HP1677	42.48085	-112.39935
HP1560	42.54633	-112.30691	HP1619	42.52198	-112.36460	HP1678	42.47994	-112.39945
HP1561	42.54632	-112.30814	HP1620	42.52136	-112.36550	HP1679	42.47905	-112.39962
HP1562	42.54636	-112.30937	HP1621	42.52084	-112.36652	HP1680	42.47816	-112.39988
HP1563	42.54630	-112.31059	HP1622	42.52039	-112.36758	HP1681	42.47741	-112.40057
HP1564	42.54611	-112.31179	HP1623	42.51996	-112.36867	HP1682	42.47668	-112.40130
HP1565	42.54616	-112.31301	HP1624	42.51926	-112.36938	HP1683	42.47596	-112.40206
HP1566	42.54647	-112.31415	HP1625	42.51837	-112.36950	HP1684	42.47555	-112.40312
HP1567	42.54634	-112.31536	HP1626	42.51750	-112.36914	HP1685	42.47523	-112.40427
HP1568	42.54558	-112.31553	HP1627	42.51662	-112.36883	HP1686	42.47488	-112.40541

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HP1687	42.47452	-112.40654	HP1746	42.42675	-112.43085	HP1805	42.37860	-112.45338
HP1688	42.47414	-112.40765	HP1747	42.42599	-112.43152	HP1806	42.37769	-112.45336
HP1689	42.47367	-112.40870	HP1748	42.42529	-112.43230	HP1807	42.37679	-112.45323
HP1690	42.47308	-112.40962	HP1749	42.42456	-112.43303	HP1808	42.37588	-112.45308
HP1691	42.47237	-112.41039	HP1750	42.42376	-112.43358	HP1809	42.37498	-112.45299
HP1692	42.47159	-112.41074	HP1751	42.42288	-112.43387	HP1810	42.37407	-112.45292
HP1693	42.47079	-112.41133	HP1752	42.42197	-112.43398	HP1811	42.37316	-112.45294
HP1694	42.47001	-112.41195	HP1753	42.42106	-112.43403	HP1812	42.37225	-112.45303
HP1695	42.46930	-112.41272	HP1754	42.42031	-112.43406	HP1813	42.37135	-112.45317
HP1696	42.46860	-112.41351	HP1755	42.42076	-112.43410	HP1814	42.37044	-112.45330
HP1697	42.46785	-112.41415	HP1756	42.41986	-112.43420	HP1815	42.36953	-112.45335
HP1698	42.46698	-112.41453	HP1757	42.41895	-112.43435	HP1816	42.36863	-112.45340
HP1699	42.46632	-112.41536	HP1758	42.41806	-112.43456	HP1817	42.36772	-112.45350
HP1700	42.46571	-112.41627	HP1759	42.41718	-112.43489	HP1818	42.36681	-112.45352
HP1701	42.46497	-112.41685	HP1760	42.41643	-112.43557	HP1819	42.36590	-112.45350
HP1702	42.46407	-112.41689	HP1761	42.41569	-112.43628	HP1820	42.36499	-112.45346
HP1703	42.46316	-112.41683	HP1762	42.41484	-112.43671	HP1821	42.36408	-112.45347
HP1704	42.46227	-112.41706	HP1763	42.41399	-112.43711	HP1822	42.36317	-112.45347
HP1705	42.46136	-112.41698	HP1764	42.41317	-112.43766	HP1823	42.36227	-112.45348
HP1706	42.46045	-112.41697	HP1765	42.41235	-112.43820	HP1824	42.36136	-112.45346
HP1707	42.45954	-112.41700	HP1766	42.41152	-112.43870	HP1825	42.36045	-112.45336
HP1708	42.45864	-112.41700	HP1767	42.41063	-112.43887	HP1826	42.35954	-112.45323
HP1709	42.45773	-112.41702	HP1768	42.40972	-112.43892	HP1827	42.35864	-112.45309
HP1710	42.45682	-112.41706	HP1769	42.40882	-112.43906	HP1828	42.35775	-112.45309
HP1711	42.45591	-112.41712	HP1770	42.40792	-112.43923	HP1829	42.35688	-112.45347
HP1712	42.45500	-112.41717	HP1771	42.40709	-112.43972	HP1830	42.35602	-112.45385
HP1713	42.45409	-112.41719	HP1772	42.40626	-112.44025	HP1831	42.35517	-112.45429
HP1714	42.45318	-112.41717	HP1773	42.40543	-112.44075	HP1832	42.35432	-112.45472
HP1715	42.45228	-112.41715	HP1774	42.40465	-112.44136	HP1833	42.35346	-112.45511
HP1716	42.45137	-112.41714	HP1775	42.40380	-112.44181	HP1834	42.35258	-112.45545
HP1717	42.45046	-112.41721	HP1776	42.40295	-112.44225	HP1835	42.35170	-112.45575
HP1718	42.44956	-112.41737	HP1777	42.40208	-112.44259	HP1836	42.35083	-112.45613
HP1719	42.44867	-112.41761	HP1778	42.40119	-112.44280	HP1837	42.34998	-112.45655
HP1720	42.44779	-112.41792	HP1779	42.40030	-112.44306	HP1838	42.34913	-112.45697
HP1721	42.44692	-112.41826	HP1780	42.39942	-112.44338	HP1839	42.34828	-112.45741
HP1722	42.44606	-112.41865	HP1781	42.39855	-112.44374	HP1840	42.34744	-112.45789
HP1723	42.44519	-112.41897	HP1782	42.39769	-112.44413	HP1841	42.34661	-112.45837
HP1724	42.44428	-112.41905	HP1783	42.39685	-112.44460	HP1842	42.34578	-112.45891
HP1725	42.44337	-112.41912	HP1784	42.39604	-112.44514	HP1843	42.34498	-112.45948
HP1726	42.44247	-112.41920	HP1785	42.39522	-112.44569	HP1844	42.34418	-112.46008
HP1727	42.44164	-112.41972	HP1786	42.39441	-112.44625	HP1845	42.34338	-112.46065
HP1728	42.44081	-112.42023	HP1787	42.39365	-112.44692	HP1846	42.34254	-112.46111
HP1729	42.43998	-112.42070	HP1788	42.39288	-112.44757	HP1847	42.34165	-112.46136
HP1730	42.43912	-112.42110	HP1789	42.39212	-112.44824	HP1848	42.34076	-112.46159
HP1731	42.43829	-112.42160	HP1790	42.39139	-112.44897	HP1849	42.33989	-112.46192
HP1732	42.43746	-112.42211	HP1791	42.39065	-112.44970	HP1850	42.33909	-112.46250
HP1733	42.43665	-112.42267	HP1792	42.38993	-112.45044	HP1851	42.33832	-112.46315
HP1734	42.43589	-112.42334	HP1793	42.38918	-112.45114	HP1852	42.33757	-112.46386
HP1735	42.43517	-112.42409	HP1794	42.38842	-112.45182	HP1853	42.33682	-112.46455
HP1736	42.43444	-112.42482	HP1795	42.38761	-112.45236	HP1854	42.33608	-112.46525
HP1737	42.43372	-112.42557	HP1796	42.38674	-112.45272	HP1855	42.33530	-112.46589
HP1738	42.43303	-112.42636	HP1797	42.38585	-112.45292	HP1856	42.33453	-112.46655
HP1739	42.43237	-112.42722	HP1798	42.38495	-112.45314	HP1857	42.33375	-112.46719
HP1740	42.43170	-112.42805	HP1799	42.38405	-112.45328	HP1858	42.33297	-112.46780
HP1741	42.43101	-112.42884	HP1800	42.38314	-112.45337	HP1859	42.33215	-112.46833
HP1742	42.43018	-112.42931	HP1801	42.38223	-112.45346	HP1860	42.33133	-112.46886
HP1743	42.42930	-112.42961	HP1802	42.38133	-112.45347	HP1861	42.33051	-112.46939
HP1744	42.42841	-112.42987	HP1803	42.38042	-112.45344	HP1862	42.32977	-112.47006
HP1745	42.42756	-112.43031	HP1804	42.37951	-112.45340	HP1863	42.32926	-112.47109

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HP1864	42.32885	-112.47218	HP1923	42.33023	-112.54266	HP1982	42.31946	-112.60734
HP1865	42.32855	-112.47334	HP1924	42.33014	-112.54389	HP1983	42.31862	-112.60781
HP1866	42.32835	-112.47453	HP1925	42.33008	-112.54511	HP1984	42.31781	-112.60837
HP1867	42.32821	-112.47575	HP1926	42.33004	-112.54634	HP1985	42.31699	-112.60887
HP1868	42.32818	-112.47697	HP1927	42.33000	-112.54757	HP1986	42.31612	-112.60925
HP1869	42.32845	-112.47813	HP1928	42.32984	-112.54878	HP1987	42.31524	-112.60955
HP1870	42.32843	-112.47931	HP1929	42.32979	-112.55000	HP1988	42.31440	-112.61000
HP1871	42.32805	-112.48043	HP1930	42.32968	-112.55122	HP1989	42.31355	-112.61044
HP1872	42.32767	-112.48154	HP1931	42.32939	-112.55238	HP1990	42.31268	-112.61077
HP1873	42.32727	-112.48265	HP1932	42.32915	-112.55356	HP1991	42.31178	-112.61097
HP1874	42.32691	-112.48378	HP1933	42.32873	-112.55462	HP1992	42.31088	-112.61112
HP1875	42.32672	-112.48497	HP1934	42.32796	-112.55528	HP1993	42.30998	-112.61129
HP1876	42.32673	-112.48620	HP1935	42.32719	-112.55592	HP1994	42.30907	-112.61144
HP1877	42.32673	-112.48741	HP1936	42.32669	-112.55690	HP1995	42.30817	-112.61159
HP1878	42.32685	-112.48863	HP1937	42.32669	-112.55813	HP1996	42.30727	-112.61174
HP1879	42.32683	-112.48986	HP1938	42.32682	-112.55934	HP1997	42.30637	-112.61188
HP1880	42.32668	-112.49107	HP1939	42.32715	-112.56048	HP1998	42.30546	-112.61203
HP1881	42.32663	-112.49229	HP1940	42.32757	-112.56157	HP1999	42.30456	-112.61209
HP1882	42.32674	-112.49351	HP1941	42.32803	-112.56262	HP2000	42.30365	-112.61212
HP1883	42.32692	-112.49471	HP1942	42.32846	-112.56370	HP2001	42.30274	-112.61215
HP1884	42.32704	-112.49593	HP1943	42.32879	-112.56484	HP2002	42.30183	-112.61218
HP1885	42.32704	-112.49716	HP1944	42.32911	-112.56600	HP2003	42.30247	-112.61218
HP1886	42.32718	-112.49836	HP1945	42.32942	-112.56715	HP2004	42.30338	-112.61219
HP1887	42.32745	-112.49954	HP1946	42.32975	-112.56830	HP2005	42.30429	-112.61219
HP1888	42.32795	-112.50054	HP1947	42.33004	-112.56946	HP2006	42.30360	-112.61219
HP1889	42.32852	-112.50150	HP1948	42.33027	-112.57065	HP2007	42.30269	-112.61225
HP1890	42.32837	-112.50271	HP1949	42.33040	-112.57186	HP2008	42.30178	-112.61232
HP1891	42.32822	-112.50392	HP1950	42.33049	-112.57308	HP2009	42.30087	-112.61240
HP1892	42.32835	-112.50513	HP1951	42.33056	-112.57431	HP2010	42.29997	-112.61255
HP1893	42.32852	-112.50633	HP1952	42.33066	-112.57553	HP2011	42.29907	-112.61269
HP1894	42.32847	-112.50756	HP1953	42.33059	-112.57675	HP2012	42.29816	-112.61281
HP1895	42.32846	-112.50879	HP1954	42.33043	-112.57796	HP2013	42.29726	-112.61297
HP1896	42.32853	-112.51002	HP1955	42.33034	-112.57918	HP2014	42.29636	-112.61306
HP1897	42.32847	-112.51123	HP1956	42.33030	-112.58040	HP2015	42.29545	-112.61316
HP1898	42.32863	-112.51244	HP1957	42.33019	-112.58162	HP2016	42.29455	-112.61328
HP1899	42.32873	-112.51366	HP1958	42.33010	-112.58284	HP2017	42.29365	-112.61345
HP1900	42.32884	-112.51488	HP1959	42.32990	-112.58404	HP2018	42.29276	-112.61370
HP1901	42.32890	-112.51610	HP1960	42.32971	-112.58525	HP2019	42.29187	-112.61399
HP1902	42.32888	-112.51733	HP1961	42.32952	-112.58645	HP2020	42.29099	-112.61428
HP1903	42.32887	-112.51856	HP1962	42.32930	-112.58764	HP2021	42.29010	-112.61456
HP1904	42.32888	-112.51978	HP1963	42.32917	-112.58885	HP2022	42.28923	-112.61489
HP1905	42.32891	-112.52101	HP1964	42.32903	-112.59006	HP2023	42.28835	-112.61521
HP1906	42.32889	-112.52224	HP1965	42.32882	-112.59125	HP2024	42.28747	-112.61554
HP1907	42.32902	-112.52345	HP1966	42.32851	-112.59241	HP2025	42.28660	-112.61586
HP1908	42.32928	-112.52462	HP1967	42.32821	-112.59356	HP2026	42.28573	-112.61622
HP1909	42.32949	-112.52581	HP1968	42.32790	-112.59472	HP2027	42.28486	-112.61657
HP1910	42.32946	-112.52704	HP1969	42.32750	-112.59581	HP2028	42.28397	-112.61687
HP1911	42.32943	-112.52827	HP1970	42.32700	-112.59683	HP2029	42.28310	-112.61720
HP1912	42.32958	-112.52947	HP1971	42.32645	-112.59781	HP2030	42.28224	-112.61758
HP1913	42.32991	-112.53061	HP1972	42.32587	-112.59876	HP2031	42.28137	-112.61797
HP1914	42.33018	-112.53178	HP1973	42.32529	-112.59970	HP2032	42.28051	-112.61836
HP1915	42.33026	-112.53300	HP1974	42.32464	-112.60056	HP2033	42.27967	-112.61880
HP1916	42.33031	-112.53423	HP1975	42.32407	-112.60150	HP2034	42.27882	-112.61926
HP1917	42.33042	-112.53545	HP1976	42.32352	-112.60247	HP2035	42.27799	-112.61974
HP1918	42.33059	-112.53665	HP1977	42.32291	-112.60339	HP2036	42.27715	-112.62023
HP1919	42.33078	-112.53785	HP1978	42.32223	-112.60420	HP2037	42.27631	-112.62069
HP1920	42.33075	-112.53907	HP1979	42.32147	-112.60488	HP2038	42.27546	-112.62112
HP1921	42.33054	-112.54025	HP1980	42.32074	-112.60561	HP2039	42.27462	-112.62159
HP1922	42.33034	-112.54145	HP1981	42.32008	-112.60645	HP2040	42.27378	-112.62205

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HP2041	42.27293	-112.62250	HP2100	42.26773	-112.68971	HP2159	42.26241	-112.75767
HP2042	42.27209	-112.62296	HP2101	42.26803	-112.69085	HP2160	42.26257	-112.75888
HP2043	42.27124	-112.62339	HP2102	42.26814	-112.69203	HP2161	42.26273	-112.76008
HP2044	42.27038	-112.62381	HP2103	42.26786	-112.69320	HP2162	42.26296	-112.76126
HP2045	42.26952	-112.62423	HP2104	42.26769	-112.69439	HP2163	42.26309	-112.76248
HP2046	42.26866	-112.62459	HP2105	42.26766	-112.69561	HP2164	42.26324	-112.76368
HP2047	42.26844	-112.62578	HP2106	42.26760	-112.69684	HP2165	42.26342	-112.76489
HP2048	42.26823	-112.62697	HP2107	42.26753	-112.69806	HP2166	42.26371	-112.76605
HP2049	42.26803	-112.62817	HP2108	42.26746	-112.69928	HP2167	42.26407	-112.76717
HP2050	42.26785	-112.62937	HP2109	42.26739	-112.70050	HP2168	42.26443	-112.76830
HP2051	42.26767	-112.63057	HP2110	42.26731	-112.70173	HP2169	42.26490	-112.76935
HP2052	42.26755	-112.63178	HP2111	42.26723	-112.70295	HP2170	42.26544	-112.77031
HP2053	42.26745	-112.63300	HP2112	42.26714	-112.70417	HP2171	42.26611	-112.77114
HP2054	42.26737	-112.63422	HP2113	42.26708	-112.70539	HP2172	42.26673	-112.77204
HP2055	42.26730	-112.63545	HP2114	42.26700	-112.70661	HP2173	42.26728	-112.77302
HP2056	42.26729	-112.63667	HP2115	42.26692	-112.70784	HP2174	42.26781	-112.77402
HP2057	42.26728	-112.63790	HP2116	42.26686	-112.70906	HP2175	42.26830	-112.77504
HP2058	42.26726	-112.63913	HP2117	42.26679	-112.71028	HP2176	42.26882	-112.77605
HP2059	42.26726	-112.64035	HP2118	42.26672	-112.71151	HP2177	42.26940	-112.77699
HP2060	42.26726	-112.64158	HP2119	42.26665	-112.71273	HP2178	42.27009	-112.77780
HP2061	42.26725	-112.64280	HP2120	42.26658	-112.71395	HP2179	42.27065	-112.77875
HP2062	42.26724	-112.64403	HP2121	42.26649	-112.71517	HP2180	42.27109	-112.77983
HP2063	42.26723	-112.64525	HP2122	42.26633	-112.71637	HP2181	42.27153	-112.78090
HP2064	42.26721	-112.64648	HP2123	42.26597	-112.71749	HP2182	42.27194	-112.78199
HP2065	42.26720	-112.64771	HP2124	42.26553	-112.71854	HP2183	42.27230	-112.78312
HP2066	42.26718	-112.64893	HP2125	42.26484	-112.71933	HP2184	42.27264	-112.78426
HP2067	42.26717	-112.65016	HP2126	42.26439	-112.72030	HP2185	42.27301	-112.78538
HP2068	42.26717	-112.65138	HP2127	42.26431	-112.72152	HP2186	42.27345	-112.78644
HP2069	42.26719	-112.65261	HP2128	42.26426	-112.72273	HP2187	42.27392	-112.78749
HP2070	42.26718	-112.65384	HP2129	42.26456	-112.72389	HP2188	42.27430	-112.78861
HP2071	42.26713	-112.65506	HP2130	42.26486	-112.72504	HP2189	42.27422	-112.78981
HP2072	42.26703	-112.65628	HP2131	42.26519	-112.72619	HP2190	42.27372	-112.79080
HP2073	42.26690	-112.65749	HP2132	42.26552	-112.72733	HP2191	42.27299	-112.79153
HP2074	42.26674	-112.65870	HP2133	42.26586	-112.72846	HP2192	42.27248	-112.79247
HP2075	42.26656	-112.65990	HP2134	42.26605	-112.72964	HP2193	42.27256	-112.79367
HP2076	42.26645	-112.66112	HP2135	42.26615	-112.73085	HP2194	42.27270	-112.79488
HP2077	42.26647	-112.66234	HP2136	42.26620	-112.73206	HP2195	42.27268	-112.79611
HP2078	42.26655	-112.66356	HP2137	42.26574	-112.73312	HP2196	42.27273	-112.79733
HP2079	42.26664	-112.66479	HP2138	42.26524	-112.73414	HP2197	42.27288	-112.79854
HP2080	42.26669	-112.66601	HP2139	42.26466	-112.73509	HP2198	42.27303	-112.79975
HP2081	42.26685	-112.66722	HP2140	42.26427	-112.73610	HP2199	42.27320	-112.80095
HP2082	42.26720	-112.66833	HP2141	42.26441	-112.73731	HP2200	42.27331	-112.80217
HP2083	42.26773	-112.66933	HP2142	42.26441	-112.73848	HP2201	42.27328	-112.80339
HP2084	42.26828	-112.67030	HP2143	42.26395	-112.73954	HP2202	42.27322	-112.80461
HP2085	42.26841	-112.67148	HP2144	42.26347	-112.74058	HP2203	42.27306	-112.80580
HP2086	42.26821	-112.67267	HP2145	42.26334	-112.74176	HP2204	42.27295	-112.80702
HP2087	42.26804	-112.67388	HP2146	42.26332	-112.74298	HP2205	42.27279	-112.80822
HP2088	42.26797	-112.67510	HP2147	42.26329	-112.74421	HP2206	42.27272	-112.80945
HP2089	42.26800	-112.67633	HP2148	42.26318	-112.74542	HP2207	42.27266	-112.81067
HP2090	42.26797	-112.67755	HP2149	42.26258	-112.74627	HP2208	42.27263	-112.81189
HP2091	42.26780	-112.67875	HP2150	42.26186	-112.74702	HP2209	42.27262	-112.81312
HP2092	42.26767	-112.67997	HP2151	42.26169	-112.74821	HP2210	42.27263	-112.81435
HP2093	42.26749	-112.68117	HP2152	42.26154	-112.74942	HP2211	42.27267	-112.81557
HP2094	42.26747	-112.68239	HP2153	42.26182	-112.75052	HP2212	42.27274	-112.81680
HP2095	42.26737	-112.68361	HP2154	42.26230	-112.75156	HP2213	42.27282	-112.81802
HP2096	42.26739	-112.68484	HP2155	42.26236	-112.75277	HP2214	42.27293	-112.81924
HP2097	42.26738	-112.68606	HP2156	42.26234	-112.75400	HP2215	42.27304	-112.82046
HP2098	42.26742	-112.68728	HP2157	42.26233	-112.75522	HP2216	42.27312	-112.82168
HP2099	42.26757	-112.68850	HP2158	42.26236	-112.75645	HP2217	42.27317	-112.82290

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HP2218	42.27320	-112.82413	HP2277	42.27113	-112.89019	HP2336	42.29247	-112.93488
HP2219	42.27325	-112.82535	HP2278	42.27123	-112.89141	HP2337	42.29315	-112.93568
HP2220	42.27332	-112.82657	HP2279	42.27137	-112.89262	HP2338	42.29391	-112.93635
HP2221	42.27338	-112.82780	HP2280	42.27149	-112.89384	HP2339	42.29441	-112.93730
HP2222	42.27344	-112.82902	HP2281	42.27156	-112.89506	HP2340	42.29446	-112.93852
HP2223	42.27346	-112.83025	HP2282	42.27164	-112.89629	HP2341	42.29488	-112.93908
HP2224	42.27349	-112.83147	HP2283	42.27164	-112.89751	HP2342	42.29551	-112.93825
HP2225	42.27352	-112.83270	HP2284	42.27146	-112.89870	HP2343	42.29607	-112.93728
HP2226	42.27353	-112.83393	HP2285	42.27126	-112.89989	HP2344	42.29690	-112.93694
HP2227	42.27353	-112.83515	HP2286	42.27111	-112.90110	HP2345	42.29778	-112.93724
HP2228	42.27360	-112.83638	HP2287	42.27080	-112.90225	HP2346	42.29869	-112.93739
HP2229	42.27374	-112.83759	HP2288	42.27028	-112.90326	HP2347	42.29960	-112.93746
HP2230	42.27395	-112.83878	HP2289	42.26990	-112.90436	HP2348	42.30047	-112.93729
HP2231	42.27421	-112.83995	HP2290	42.26968	-112.90555	HP2349	42.30135	-112.93697
HP2232	42.27453	-112.84110	HP2291	42.26945	-112.90673	HP2350	42.30225	-112.93702
HP2233	42.27494	-112.84219	HP2292	42.26921	-112.90792	HP2351	42.30313	-112.93731
HP2234	42.27546	-112.84320	HP2293	42.26891	-112.90908	HP2352	42.30401	-112.93758
HP2235	42.27604	-112.84414	HP2294	42.26859	-112.91023	HP2353	42.30491	-112.93763
HP2236	42.27665	-112.84505	HP2295	42.26821	-112.91134	HP2354	42.30579	-112.93796
HP2237	42.27732	-112.84589	HP2296	42.26765	-112.91230	HP2355	42.30660	-112.93849
HP2238	42.27787	-112.84686	HP2297	42.26705	-112.91321	HP2356	42.30696	-112.93952
HP2239	42.27852	-112.84772	HP2298	42.26675	-112.91435	HP2357	42.30776	-112.93988
HP2240	42.27921	-112.84852	HP2299	42.26704	-112.91547	HP2358	42.30865	-112.93974
HP2241	42.27986	-112.84937	HP2300	42.26779	-112.91615	HP2359	42.30955	-112.93995
HP2242	42.28029	-112.85045	HP2301	42.26835	-112.91708	HP2360	42.31045	-112.94002
HP2243	42.28058	-112.85161	HP2302	42.26890	-112.91805	HP2361	42.31136	-112.94011
HP2244	42.28066	-112.85283	HP2303	42.26973	-112.91847	HP2362	42.31227	-112.94018
HP2245	42.28056	-112.85405	HP2304	42.27035	-112.91765	HP2363	42.31318	-112.94019
HP2246	42.28046	-112.85527	HP2305	42.27096	-112.91677	HP2364	42.31409	-112.94011
HP2247	42.28054	-112.85648	HP2306	42.27184	-112.91652	HP2365	42.31497	-112.93983
HP2248	42.28081	-112.85765	HP2307	42.27273	-112.91672	HP2366	42.31586	-112.93993
HP2249	42.28073	-112.85883	HP2308	42.27364	-112.91666	HP2367	42.31658	-112.94067
HP2250	42.28066	-112.86006	HP2309	42.27453	-112.91677	HP2368	42.31726	-112.94149
HP2251	42.28055	-112.86127	HP2310	42.27542	-112.91706	HP2369	42.31795	-112.94229
HP2252	42.28016	-112.86237	HP2311	42.27630	-112.91735	HP2370	42.31867	-112.94304
HP2253	42.27953	-112.86326	HP2312	42.27716	-112.91775	HP2371	42.31951	-112.94346
HP2254	42.27901	-112.86425	HP2313	42.27795	-112.91835	HP2372	42.32031	-112.94404
HP2255	42.27854	-112.86530	HP2314	42.27875	-112.91894	HP2373	42.32115	-112.94452
HP2256	42.27831	-112.86649	HP2315	42.27961	-112.91930	HP2374	42.32200	-112.94497
HP2257	42.27797	-112.86761	HP2316	42.28051	-112.91946	HP2375	42.32285	-112.94540
HP2258	42.27765	-112.86876	HP2317	42.28138	-112.91980	HP2376	42.32371	-112.94581
HP2259	42.27732	-112.86990	HP2318	42.28218	-112.92040	HP2377	42.32449	-112.94643
HP2260	42.27689	-112.87099	HP2319	42.28286	-112.92120	HP2378	42.32518	-112.94723
HP2261	42.27654	-112.87212	HP2320	42.28341	-112.92218	HP2379	42.32591	-112.94796
HP2262	42.27613	-112.87322	HP2321	42.28350	-112.92339	HP2380	42.32672	-112.94850
HP2263	42.27571	-112.87430	HP2322	42.28369	-112.92458	HP2381	42.32755	-112.94902
HP2264	42.27540	-112.87545	HP2323	42.28394	-112.92575	HP2382	42.32836	-112.94954
HP2265	42.27511	-112.87662	HP2324	42.28405	-112.92698	HP2383	42.32873	-112.95059
HP2266	42.27483	-112.87778	HP2325	42.28415	-112.92820	HP2384	42.32874	-112.95182
HP2267	42.27430	-112.87878	HP2326	42.28471	-112.92902	HP2385	42.32871	-112.95304
HP2268	42.27379	-112.87979	HP2327	42.28560	-112.92922	HP2386	42.32874	-112.95427
HP2269	42.27341	-112.88091	HP2328	42.28632	-112.92990	HP2387	42.32884	-112.95549
HP2270	42.27307	-112.88204	HP2329	42.28701	-112.93066	HP2388	42.32896	-112.95671
HP2271	42.27283	-112.88323	HP2330	42.28769	-112.93148	HP2389	42.32903	-112.95793
HP2272	42.27259	-112.88441	HP2331	42.28847	-112.93210	HP2390	42.32906	-112.95916
HP2273	42.27226	-112.88555	HP2332	42.28932	-112.93255	HP2391	42.32904	-112.96039
HP2274	42.27189	-112.88668	HP2333	42.29018	-112.93295	HP2392	42.32896	-112.96162
HP2275	42.27153	-112.88780	HP2334	42.29101	-112.93346	HP2393	42.32906	-112.96283
HP2276	42.27129	-112.88898	HP2335	42.29180	-112.93408	HP2394	42.32929	-112.96402

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HP2395	42.32951	-112.96521	HP2454	42.32483	-113.03448	HP2513	42.30461	-113.09571
HP2396	42.32975	-112.96639	HP2455	42.32464	-113.03568	HP2514	42.30456	-113.09694
HP2397	42.32995	-112.96759	HP2456	42.32452	-113.03690	HP2515	42.30439	-113.09814
HP2398	42.33015	-112.96879	HP2457	42.32446	-113.03812	HP2516	42.30409	-113.09929
HP2399	42.33034	-112.96999	HP2458	42.32442	-113.03935	HP2517	42.30379	-113.10045
HP2400	42.33045	-112.97121	HP2459	42.32439	-113.04058	HP2518	42.30353	-113.10163
HP2401	42.33049	-112.97244	HP2460	42.32431	-113.04180	HP2519	42.30333	-113.10282
HP2402	42.33050	-112.97366	HP2461	42.32430	-113.04303	HP2520	42.30324	-113.10404
HP2403	42.33031	-112.97486	HP2462	42.32429	-113.04426	HP2521	42.30319	-113.10526
HP2404	42.32995	-112.97599	HP2463	42.32391	-113.04533	HP2522	42.30315	-113.10649
HP2405	42.32982	-112.97718	HP2464	42.32329	-113.04620	HP2523	42.30311	-113.10772
HP2406	42.32988	-112.97841	HP2465	42.32293	-113.04725	HP2524	42.30302	-113.10894
HP2407	42.32981	-112.97963	HP2466	42.32225	-113.04807	HP2525	42.30293	-113.11016
HP2408	42.32949	-112.98078	HP2467	42.32160	-113.04893	HP2526	42.30284	-113.11138
HP2409	42.32921	-112.98193	HP2468	42.32099	-113.04984	HP2527	42.30277	-113.11260
HP2410	42.32907	-112.98314	HP2469	42.32036	-113.05070	HP2528	42.30271	-113.11383
HP2411	42.32889	-112.98435	HP2470	42.31962	-113.05140	HP2529	42.30262	-113.11505
HP2412	42.32900	-112.98555	HP2471	42.31895	-113.05223	HP2530	42.30258	-113.11626
HP2413	42.32924	-112.98673	HP2472	42.31827	-113.05305	HP2531	42.30255	-113.11748
HP2414	42.32942	-112.98793	HP2473	42.31757	-113.05383	HP2532	42.30258	-113.11871
HP2415	42.32958	-112.98914	HP2474	42.31687	-113.05462	HP2533	42.30261	-113.11994
HP2416	42.32949	-112.99035	HP2475	42.31626	-113.05551	HP2534	42.30266	-113.12116
HP2417	42.32949	-112.99158	HP2476	42.31566	-113.05644	HP2535	42.30271	-113.12239
HP2418	42.32955	-112.99281	HP2477	42.31504	-113.05733	HP2536	42.30273	-113.12361
HP2419	42.32957	-112.99403	HP2478	42.31443	-113.05824	HP2537	42.30277	-113.12484
HP2420	42.32947	-112.99525	HP2479	42.31386	-113.05921	HP2538	42.30284	-113.12606
HP2421	42.32944	-112.99648	HP2480	42.31332	-113.06019	HP2539	42.30294	-113.12728
HP2422	42.32945	-112.99769	HP2481	42.31289	-113.06127	HP2540	42.30305	-113.12850
HP2423	42.32920	-112.99887	HP2482	42.31237	-113.06223	HP2541	42.30310	-113.12972
HP2424	42.32904	-113.00008	HP2483	42.31158	-113.06284	HP2542	42.30316	-113.13095
HP2425	42.32868	-113.00120	HP2484	42.31079	-113.06345	HP2543	42.30318	-113.13217
HP2426	42.32864	-113.00242	HP2485	42.31017	-113.06434	HP2544	42.30317	-113.13340
HP2427	42.32826	-113.00340	HP2486	42.30955	-113.06524	HP2545	42.30311	-113.13463
HP2428	42.32746	-113.00398	HP2487	42.30923	-113.06639	HP2546	42.30301	-113.13584
HP2429	42.32713	-113.00506	HP2488	42.30892	-113.06754	HP2547	42.30288	-113.13706
HP2430	42.32707	-113.00628	HP2489	42.30833	-113.06845	HP2548	42.30276	-113.13828
HP2431	42.32671	-113.00741	HP2490	42.30767	-113.06929	HP2549	42.30260	-113.13948
HP2432	42.32644	-113.00858	HP2491	42.30692	-113.06999	HP2550	42.30240	-113.14068
HP2433	42.32654	-113.00976	HP2492	42.30618	-113.07070	HP2551	42.30228	-113.14190
HP2434	42.32632	-113.01091	HP2493	42.30559	-113.07164	HP2552	42.30213	-113.14310
HP2435	42.32604	-113.01208	HP2494	42.30517	-113.07265	HP2553	42.30191	-113.14430
HP2436	42.32572	-113.01323	HP2495	42.30524	-113.07387	HP2554	42.30178	-113.14551
HP2437	42.32541	-113.01438	HP2496	42.30530	-113.07510	HP2555	42.30161	-113.14671
HP2438	42.32537	-113.01559	HP2497	42.30541	-113.07632	HP2556	42.30138	-113.14790
HP2439	42.32525	-113.01676	HP2498	42.30561	-113.07751	HP2557	42.30122	-113.14911
HP2440	42.32550	-113.01794	HP2499	42.30578	-113.07871	HP2558	42.30105	-113.15032
HP2441	42.32591	-113.01904	HP2500	42.30576	-113.07994	HP2559	42.30086	-113.15152
HP2442	42.32593	-113.02026	HP2501	42.30543	-113.08105	HP2560	42.30067	-113.15272
HP2443	42.32569	-113.02145	HP2502	42.30537	-113.08227	HP2561	42.30049	-113.15392
HP2444	42.32536	-113.02259	HP2503	42.30526	-113.08349	HP2562	42.30032	-113.15513
HP2445	42.32513	-113.02377	HP2504	42.30516	-113.08471	HP2563	42.30014	-113.15633
HP2446	42.32508	-113.02498	HP2505	42.30507	-113.08593	HP2564	42.29996	-113.15753
HP2447	42.32536	-113.02615	HP2506	42.30495	-113.08715	HP2565	42.29977	-113.15873
HP2448	42.32564	-113.02732	HP2507	42.30486	-113.08837	HP2566	42.29960	-113.15994
HP2449	42.32560	-113.02851	HP2508	42.30480	-113.08959	HP2567	42.29939	-113.16113
HP2450	42.32542	-113.02972	HP2509	42.30476	-113.09082	HP2568	42.29916	-113.16232
HP2451	42.32549	-113.03093	HP2510	42.30477	-113.09204	HP2569	42.29892	-113.16350
HP2452	42.32530	-113.03213	HP2511	42.30473	-113.09327	HP2570	42.29877	-113.16471
HP2453	42.32515	-113.03333	HP2512	42.30467	-113.09449	HP2571	42.29857	-113.16591

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HP2572	42.29838	-113.16711	HP2631	42.28162	-113.23479	HP2690	42.27719	-113.30649
HP2573	42.29820	-113.16831	HP2632	42.28138	-113.23597	HP2691	42.27713	-113.30771
HP2574	42.29801	-113.16951	HP2633	42.28118	-113.23717	HP2692	42.27697	-113.30892
HP2575	42.29781	-113.17071	HP2634	42.28100	-113.23838	HP2693	42.27688	-113.31012
HP2576	42.29760	-113.17190	HP2635	42.28081	-113.23958	HP2694	42.27676	-113.31133
HP2577	42.29745	-113.17311	HP2636	42.28060	-113.24077	HP2695	42.27666	-113.31255
HP2578	42.29728	-113.17431	HP2637	42.28037	-113.24195	HP2696	42.27656	-113.31376
HP2579	42.29701	-113.17548	HP2638	42.28019	-113.24316	HP2697	42.27648	-113.31499
HP2580	42.29673	-113.17665	HP2639	42.28006	-113.24437	HP2698	42.27644	-113.31621
HP2581	42.29640	-113.17779	HP2640	42.27998	-113.24559	HP2699	42.27641	-113.31744
HP2582	42.29608	-113.17894	HP2641	42.27997	-113.24681	HP2700	42.27637	-113.31867
HP2583	42.29578	-113.18010	HP2642	42.27995	-113.24804	HP2701	42.27634	-113.31989
HP2584	42.29547	-113.18125	HP2643	42.27990	-113.24926	HP2702	42.27629	-113.32112
HP2585	42.29493	-113.18213	HP2644	42.27980	-113.25049	HP2703	42.27626	-113.32235
HP2586	42.29436	-113.18304	HP2645	42.27974	-113.25171	HP2704	42.27621	-113.32357
HP2587	42.29399	-113.18416	HP2646	42.27969	-113.25293	HP2705	42.27618	-113.32480
HP2588	42.29360	-113.18526	HP2647	42.27961	-113.25416	HP2706	42.27615	-113.32602
HP2589	42.29315	-113.18633	HP2648	42.27955	-113.25538	HP2707	42.27611	-113.32725
HP2590	42.29268	-113.18738	HP2649	42.27952	-113.25660	HP2708	42.27607	-113.32847
HP2591	42.29214	-113.18836	HP2650	42.27959	-113.25783	HP2709	42.27604	-113.32970
HP2592	42.29177	-113.18947	HP2651	42.27975	-113.25903	HP2710	42.27601	-113.33092
HP2593	42.29140	-113.19059	HP2652	42.27970	-113.26026	HP2711	42.27596	-113.33215
HP2594	42.29103	-113.19171	HP2653	42.27952	-113.26146	HP2712	42.27593	-113.33338
HP2595	42.29070	-113.19285	HP2654	42.27948	-113.26268	HP2713	42.27588	-113.33460
HP2596	42.29036	-113.19400	HP2655	42.27949	-113.26391	HP2714	42.27585	-113.33583
HP2597	42.29001	-113.19513	HP2656	42.27947	-113.26513	HP2715	42.27582	-113.33705
HP2598	42.28965	-113.19625	HP2657	42.27946	-113.26636	HP2716	42.27578	-113.33828
HP2599	42.28940	-113.19742	HP2658	42.27946	-113.26759	HP2717	42.27574	-113.33951
HP2600	42.28933	-113.19864	HP2659	42.27950	-113.26881	HP2718	42.27571	-113.34073
HP2601	42.28924	-113.19984	HP2660	42.27955	-113.27003	HP2719	42.27567	-113.34196
HP2602	42.28899	-113.20102	HP2661	42.27956	-113.27126	HP2720	42.27562	-113.34318
HP2603	42.28883	-113.20223	HP2662	42.27956	-113.27249	HP2721	42.27559	-113.34441
HP2604	42.28861	-113.20342	HP2663	42.27946	-113.27371	HP2722	42.27556	-113.34563
HP2605	42.28841	-113.20461	HP2664	42.27926	-113.27490	HP2723	42.27551	-113.34686
HP2606	42.28835	-113.20583	HP2665	42.27912	-113.27611	HP2724	42.27548	-113.34809
HP2607	42.28811	-113.20701	HP2666	42.27902	-113.27733	HP2725	42.27543	-113.34931
HP2608	42.28796	-113.20822	HP2667	42.27891	-113.27855	HP2726	42.27540	-113.35054
HP2609	42.28770	-113.20938	HP2668	42.27881	-113.27977	HP2727	42.27537	-113.35176
HP2610	42.28736	-113.21052	HP2669	42.27872	-113.28099	HP2728	42.27534	-113.35299
HP2611	42.28706	-113.21167	HP2670	42.27862	-113.28221	HP2729	42.27529	-113.35421
HP2612	42.28668	-113.21278	HP2671	42.27866	-113.28342	HP2730	42.27525	-113.35544
HP2613	42.28639	-113.21394	HP2672	42.27857	-113.28464	HP2731	42.27523	-113.35666
HP2614	42.28618	-113.21513	HP2673	42.27841	-113.28581	HP2732	42.27518	-113.35789
HP2615	42.28578	-113.21621	HP2674	42.27826	-113.28700	HP2733	42.27514	-113.35911
HP2616	42.28536	-113.21728	HP2675	42.27821	-113.28822	HP2734	42.27510	-113.36034
HP2617	42.28514	-113.21847	HP2676	42.27810	-113.28943	HP2735	42.27507	-113.36157
HP2618	42.28506	-113.21969	HP2677	42.27799	-113.29064	HP2736	42.27504	-113.36279
HP2619	42.28503	-113.22092	HP2678	42.27790	-113.29186	HP2737	42.27499	-113.36402
HP2620	42.28451	-113.22192	HP2679	42.27778	-113.29308	HP2738	42.27495	-113.36525
HP2621	42.28420	-113.22307	HP2680	42.27771	-113.29430	HP2739	42.27493	-113.36647
HP2622	42.28400	-113.22426	HP2681	42.27764	-113.29553	HP2740	42.27489	-113.36770
HP2623	42.28366	-113.22540	HP2682	42.27760	-113.29676	HP2741	42.27485	-113.36893
HP2624	42.28350	-113.22661	HP2683	42.27752	-113.29798	HP2742	42.27481	-113.37015
HP2625	42.28331	-113.22780	HP2684	42.27746	-113.29917	HP2743	42.27477	-113.37138
HP2626	42.28305	-113.22898	HP2685	42.27745	-113.30037	HP2744	42.27474	-113.37261
HP2627	42.28273	-113.23013	HP2686	42.27740	-113.30159	HP2745	42.27471	-113.37383
HP2628	42.28242	-113.23128	HP2687	42.27733	-113.30281	HP2746	42.27466	-113.37506
HP2629	42.28212	-113.23244	HP2688	42.27726	-113.30404	HP2747	42.27462	-113.37628
HP2630	42.28190	-113.23363	HP2689	42.27723	-113.30526	HP2748	42.27458	-113.37751

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HP2749	42.27455	-113.37873	HA1003	42.59868	-111.97459	HA1062	42.59271	-112.01087
HP2750	42.27451	-113.37996	HA1004	42.59806	-111.97542	HA1063	42.59292	-112.01196
HP2751	42.27448	-113.38119	HA1005	42.59729	-111.97558	HA1064	42.59309	-112.01312
HP2752	42.27443	-113.38241	HA1006	42.59658	-111.97488	HA1065	42.59370	-112.01385
HP2753	42.27439	-113.38364	HA1007	42.59595	-111.97410	HA1066	42.59445	-112.01445
HP2754	42.27436	-113.38487	HA1008	42.59548	-111.97309	HA1067	42.59515	-112.01516
HP2755	42.27432	-113.38609	HA1009	42.59493	-111.97223	HA1068	42.59573	-112.01590
HP2756	42.27429	-113.38732	HA1010	42.59414	-111.97262	HA1069	42.59611	-112.01697
HP2757	42.27425	-113.38854	HA1011	42.59333	-111.97294	HA1070	42.59629	-112.01811
HP2758	42.27421	-113.38977	HA1012	42.59254	-111.97341	HA1071	42.59659	-112.01921
HP2759	42.27417	-113.39100	HA1013	42.59171	-111.97378	HA1072	42.59705	-112.02022
HP2760	42.27414	-113.39222	HA1014	42.59090	-111.97423	HA1073	42.59750	-112.02124
HP2761	42.27412	-113.39345	HA1015	42.59013	-111.97479	HA1074	42.59794	-112.02226
HP2762	42.27405	-113.39467	HA1016	42.58944	-111.97553	HA1075	42.59839	-112.02329
HP2763	42.27402	-113.39590	HA1017	42.58870	-111.97610	HA1076	42.59887	-112.02428
HP2764	42.27398	-113.39713	HA1018	42.58784	-111.97633	HA1077	42.59939	-112.02523
HP2765	42.27396	-113.39835	HA1019	42.58699	-111.97610	HA1078	42.59977	-112.02630
HP2766	42.27391	-113.39958	HA1020	42.58612	-111.97610	HA1079	42.60017	-112.02736
HP2767	42.27388	-113.40080	HA1021	42.58524	-111.97607	HA1080	42.60066	-112.02834
HP2768	42.27388	-113.40203	HA1022	42.58437	-111.97594	Alternate Route B		
HP2769	42.27391	-113.40326	HA1023	42.58361	-111.97540	HB1001	42.32894	-112.47922
HP2770	42.27395	-113.40448	HA1024	42.58286	-111.97485	HB1002	42.32948	-112.48021
HP2771	42.27395	-113.40571	HA1025	42.58200	-111.97465	HB1003	42.32982	-112.48137
HP2772	42.27393	-113.40693	HA1026	42.58143	-111.97553	HB1004	42.33002	-112.48259
HP2773	42.27392	-113.40816	HA1027	42.58097	-111.97654	HB1005	42.33036	-112.48376
HP2774	42.27390	-113.40939	HA1028	42.58085	-111.97770	HB1006	42.33086	-112.48482
HP2775	42.27389	-113.41062	HA1029	42.58075	-111.97887	HB1007	42.33122	-112.48597
HP2776	42.27388	-113.41184	HA1030	42.58062	-111.98001	HB1008	42.33183	-112.48690
HP2777	42.27388	-113.41307	HA1031	42.58096	-111.98110	HB1009	42.33242	-112.48780
HP2778	42.27392	-113.41430	HA1032	42.58143	-111.98210	HB1010	42.33313	-112.48859
HP2779	42.27393	-113.41552	HA1033	42.58199	-111.98300	HB1011	42.33393	-112.48922
HP2780	42.27392	-113.41675	HA1034	42.58250	-111.98397	HB1012	42.33472	-112.48986
HP2781	42.27391	-113.41798	HA1035	42.58291	-111.98501	HB1013	42.33563	-112.49008
HP2782	42.27393	-113.41921	HA1036	42.58326	-111.98610	HB1014	42.33657	-112.49008
HP2783	42.27395	-113.42043	HA1037	42.58360	-111.98719	HB1015	42.33747	-112.48981
HP2784	42.27396	-113.42166	HA1038	42.58418	-111.98808	HB1016	42.33836	-112.49007
HP2785	42.27396	-113.42289	HA1039	42.58498	-111.98855	HB1017	42.33918	-112.49064
HP2786	42.27396	-113.42411	HA1040	42.58571	-111.98921	HB1018	42.33995	-112.49132
HP2787	42.27398	-113.42534	HA1041	42.58638	-111.98997	HB1019	42.34075	-112.49192
HP2788	42.27400	-113.42657	HA1042	42.58703	-111.99077	HB1020	42.34161	-112.49239
HP2789	42.27400	-113.42779	HA1043	42.58757	-111.99170	HB1021	42.34227	-112.49326
HP2790	42.27410	-113.42901	HA1044	42.58801	-111.99273	HB1022	42.34274	-112.49434
HP2791	42.27404	-113.43024	HA1045	42.58845	-111.99375	HB1023	42.34319	-112.49542
HP2792	42.27408	-113.43146	HA1046	42.58889	-111.99478	HB1024	42.34344	-112.49663
HP2793	42.27415	-113.43269	HA1047	42.58944	-111.99570	HB1025	42.34373	-112.49779
HP2794	42.27424	-113.43391	HA1048	42.58996	-111.99665	HB1026	42.34394	-112.49899
HP2795	42.27433	-113.43513	HA1049	42.59043	-111.99766	HB1027	42.34422	-112.50019
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HP2800	42.27472	-113.44124	HA1054	42.59072	-112.00336	HB1032	42.34513	-112.50627
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HP2804	42.27489	-113.44614	HA1058	42.59018	-112.00786	HB1036	42.34466	-112.51108
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HA1001	42.59971	-111.97273	HA1060	42.59127	-112.00966	HB1038	42.34409	-112.51345
HA1002	42.59931	-111.97377	HA1061	42.59196	-112.01035	HB1039	42.34371	-112.51460

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HB1040 42.34330 -112.51571
HB1041 42.34317 -112.51693
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HB1048 42.34187 -112.52526
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HB1057 42.34251 -112.53530
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HB1080 42.32947 -112.55383

Alternate Route C

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Alternate Route D

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HD1008 42.29567 -112.93426
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HD1010 42.29720 -112.93462
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HD1014 42.30008 -112.93616
HD1015 42.30082 -112.93648
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End of Dataset

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Appendix A.

Historic Trail Discovery and Research Methodology

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Introduction

This brief monograph addresses the methodology I have developed for finding historic trails and wagon roads. Trying to describe a process that has been developed using science, inference, and intuition is difficult because it involves so many variables and perturbations. It is similar to a basketball coach writing a monograph on the process of coaching during a game. Some people question if it is even possible to develop such a methodology, but finding actual old worn trail tread is the proof that it works. In this monograph, the word ‘trail’ means the erosion trace of an historic trail or historic wagon road.

Trails and roads are transportation routes that people use to get from one point to another in the most practical way possible. The main criteria for trail location choices have always been directionality, water, food, shelter, safety, ease of travel, and availability. These are the same criteria that have been used by all travelers for uncounted millennia.

Major Criteria for Trail Location

Directionality	A traveler is interested in getting from “point-A” to “point-B” in the most effective way possible. Thus, trails have a directionality characteristic. This means the trail connects the points in the shortest practical distance, given obstacles and availability constraints. The trail may meander but it tries to keep close to a direct path.
Water	Essential for all life, a trail must pass by water sources frequently enough to serve the needs of people and livestock. Most of the time, a water source every 3-15 miles is acceptable although we know distances of 20-70 miles are a difficult reality for some trail segments.
Food	Also essential for life, the area traversed by a trail must provide plant and animal food sources adequate for livestock and people.
Shelter	Shelter from adverse weather is highly desirable but often scarce. Caves, cliffs, and tree-branch shelters can serve the purpose –when available. People often transport their shelter with them as they travel. For aboriginal people and early fur trappers, it was often animal hides. In modern times, it is the nylon tent and/or warm rain gear.
Safety	For aboriginal people, this was a key element in the location of trails. Safety from enemies, dangerous animals, cliffs, steep hillsides, etc, were paramount.
Ease of Travel	If a trail is well located for ease of travel, energy requirements, and food requirements; ‘wear and tear’ and stress and trauma are reduced. It is a plus if a trail can be located on reasonable slopes/ grades.
Availability	A good trail is available during most months of the year. The location must take into account snow, rain, tree dead-fall, and flooding streams and rivers.

Trail, Road, and Highway Construction, Induced Erosion Characteristics

A knowledge of the historical progression of trail-use helps greatly with the discovery of true trails. For example, a trail route such as the Ice Age Trail from Canada to the southern United States was traveled thousands of years ago by people on foot and with whatever domesticated animals (most often dogs) they had available. These migration routes can be crudely estimated by campsites but any trail erosion trace has long disappeared due to erosion from rain, snow melt, fire runoff, etc.

In the Pacific Northwest, trails were worn by human foot traffic and dogs before the arrival of the horse – about 1730. Lewis & Clark followed well-worn Indian trails for most of their journey across the mountains (excepting Lost Trail Pass). As horse herds increased their number, pack horses replaced the dog travois, especially in brushy, mountainous, timbered areas. The increased use of pack horses also increased

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the depth and braid of existing trails. It is the horse trail erosion tread that we find in the mountains today.

Wagon roads replaced horse trails in some locations but, for the most part, the wagon roads were separate because (with notable exceptions) they required a route that was less steep; with more gentle hillside slopes. Constructed wagon roads such as the Lander Road of the Oregon-California Trail and the Lewiston & Virginia City Wagon Road (Bird Truax Trail) in north-central Idaho, were surveyed to an acceptable wagon road grade.

The era of mechanized road construction and western agriculture brought about the destruction of the fundamental nature of the historic horse trail. Single-lane dirt roads covered over some of the trails and were followed by paved roads. Travelers of modern paved roads are usually unaware that they are driving over what was once a major Indian Trail – less than two centuries ago. One interesting use for old trails was to turn them into ditches for agriculture and mining. Sometimes they were located in the right place and had a slope that accommodated use as a water ditch.

The construction characteristics and erosion characteristics of a trail give powerful clues as to its origin. Constructed trails and wagon roads can be quite different from trails pioneered by aboriginal people and emigrants. Erosion trails by horses and horse travois are significantly different from erosion trails caused by wagons.

Trail Use Identification

One of the most difficult tasks in historic trail discovery and documentation is to determine its origin, era of use, and type of use. A trail can come into use by many different means. Science and art must both be used to properly identify them. Here are some trail types.

-ANIMALS; Horses, Cattle, Sheep, Buffalo, Elk, Moose, Deer, etc.

-HUMAN FOOT TRAFFIC; hiking, camping, hunting, etc.

-CONSTRUCTED TRAILS; Silver and Gold Mining, hunting, National Forests, National Parks, Recreation, Federal and State Government.

Indian Trails (Horse Trails) For the most part, these trails travel as directly as possible between two points, even when they had to go through difficult terrain. They tend to stay on ridges and other high points and almost never travel in the brush and windfall bottoms of rivers and creeks. They also tend, when possible, to be located in the most sunny areas of travel. This makes the trail usable earlier in the spring and later in the fall. For example, the trail will be located near the crown of the ridge but on the sunniest edge of it. These main trails do not ‘dip and dive’ off a ridge to access each water source or meadow of horse feed. The main trail stays on the ridge and travelers access these places with a side trail. This is the most energy efficient way of travel and energy efficiency was, and still is, very important. They will avoid locations that may expose them to enemy ambush. One significant feature of Indian trails in steep areas is the nature of the trail switchbacks. The trail is serpentine steeply up the hill and the switchbacks are only 3-5 times the length of a horse (30-50 feet). When a trail has long, shallow-slope switchbacks, it is not an Indian trail.

Cattle Trails Cattle create grazing trails and patterns on hillsides where there may be a horse trail. This can create a difficult separation problem unless a vantage point can be gained where the weaving cattle pattern can be distinguished from the ‘straight-line’ horse trail. Cattle also produce a radial pattern of trails around a water source or salt block. Historic horse trails do not. Cattle were often driven on historic trails and create erosion patterns that are difficult to distinguish from horse trails. In the mountains, cattle do a lot of single-file traveling, just as saddle horses do. I employ a variety of methods to eliminate cattle trails. Heavy cattle grazing over decades can obliterate a major historic trail.

Sheep Trails A stock driveway used by sheep can be 20 or more feet wide and a very well beaten path. It often looks more like a road than a trail. It does not have the deep erosion patterns created by horses and cattle. Historic trails can be rapidly destroyed by sheep because they graze the plants so close to the ground that significant erosion is created.

National Forest Trails These trails were originally designed for horse and foot traffic but now may have mountain bike, motorcycle, or ATV traffic. Many of these trails were converted Indian trails with

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reroutes and longer switchbacks constructed where needed. Over the last 100 years, the historic nature of the original Indian trail has been lost in many places. Forest trails were constructed, or modified, to create a more shallow grade and reduce erosion. Maps of these trails exist back to at least 1911 which helps separate them from Indian trails. Forest trails have a 'constructed' look about them that is different from the original pioneered trails.

National Park Trails These trails, for the most part, are constructed for tourist hiking and are of recent vintage. My research work up to this time has not included areas of National Parks.

Mining Trails Gold and silver miners originally used the Indian trails for explorations and travel so some historic trails have been greatly impacted by mining activity. This is especially true for the Southern Nez Perces Trail in north-central Idaho. As mines were established and travel route changes were needed, the miners would abandon some sections of the Indian trail and construct their own trails. They had different needs and objectives. Because miners and Indians traveled the same way with horses and mules, distinguishing the two can be a challenge. In these areas, it is helpful to have old journals and knowledge of various mine locations to separate them out.

Hunting Trails In high-traffic hunting areas, hunters often develop trails from camping areas to water sources and meadows. These are often horse trails and, depending on their age, may be difficult to distinguish from historical trails. Fortunately, they can be distinguished by the way they link camping areas with known water sources and hunting meadows. On the Lolo Trail corridor in Idaho, they are usually less than five miles in length and most are less than two miles in length. They also tend to connect with National Forest trails so a good trail map is essential to separate the two. Additionally, maintained National Forest trails are brushed out to specific standards which can distinguish them from the hunting trails that which tend to have brush obstruction.

Livestock Driveways These were large trails used to drive cattle and sheep from winter pastures to summer pastures and from pastures to railheads. They were characterized by wide beaten paths and the directionality associated with pastures and railheads.

Wagon Roads In frangible soil types, old wagon roads tend to have a central swale created by the horse hooves and often, there are no discernable wagon wheel ruts. Where very rocky soil and hard surfaces exist, the wheel ruts are easily discernable.

Historical Documentation of Trails

Historical documentation of western trails is often available in the form of government maps, fur trader maps, explorer and pioneer journals, and history books. Original sources are essential for the best research quality. Second, or third-hand information can be degraded in quality caused by editing, bias, gross error and general lack of accurate knowledge. Even high-quality journals like those produced by Lewis & Clark and the Corps of Discovery can be interpreted in different ways and subject to editorial changes.

I rely mostly on original explorer journals and their maps as well as the Government Land Office (GLO) Plat Surveys. Of course, both have occasional errors but their first-hand accounts usually produce good information to locate the erosion traces.

Original Research Independence

The hallmark of my research has been to use only original documents dating, as near as possible, to the original dates of use of a trail or wagon road. This avoids the bias of using previous research. This is especially true for derivative books. After I apply my research methods and have determined trail and road locations as accurately as possible, I will then compare previous research results with my own. Most of the time they do not influence my results but, occasionally, I discover new information or an error in my research, which I correct.

Anecdotal information and published oral histories have frequently proven to be inaccurate to the point where I place little confidence in them. In nearly all cases, the information has been passed down over

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a 100+ year span between the original source and today's generation.

Trail Dating and Route Evolution

Whenever reporting on trail research, it is essential to assign a correct date as to the location of the trail – at that time. The location of some portions of a trail will usually evolve over time and the reader and future researchers need to know the date that applies to whatever trail documentation is being provided. It is ideal if, when creating a map, each branch of the trail can be labeled with an applicable date. This evolution was never more abundantly clear than in the evolution of the various California and Oregon immigrant trails. There are literally hundreds of both major and minor branches in that trail system.

Ground Truthing

Hiking and finding the erosion trace of an old trail, and documenting it with a precision GPS, is the best way to insure high-quality research on an historic trail. Satellite, aerial, and ground photos can be very helpful and may produce good results in some cases, but they are no substitute for ground truthing. Various types of old maps can be used for approximation but accuracy is poor by modern standards. The original plat surveys by the Government Land Office (GLO), now called the Bureau of Land Management (BLM), offer good accuracy, but only on section-line intersections with trails. The GLO maps can be quite inaccurate within section interiors. It is best to get the information directly from the hand-written survey notes.

Experience, Intuition, and Dumb Luck

There is no amount of written information that is an adequate substitute for experience, inference, and intuition, when it comes to finding old trails. Trail location is so dependent on use, topography, vegetation, water, and other factors that there are unique aspects to each trail. Much trial and error is involved until this experience is gained. Last, but not least, is the element of 'dumb luck.' It happens when you are hiking along and literally stumble into the erosion trace of an old trail where you never expected it to be.

Revision and Additional Information

I will try to revise this document as new experiences point to new directions in research. I hope this information will be valuable to later generations of trail researchers.

*Steve F. Russell
Ames, Iowa
April 4, 2014*

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Appendix B. Inference in Historic Trail Research

Inference in Historic Trail Research

Inference is a very important concept in all types of research from theoretical physics, to medicine, to historic trails. The skill of the researcher in understanding inference, properly applying it, and acknowledging its use, is of paramount importance. A researcher can never claim that the conclusions reached using inference are "absolute truth," and yet, this often happens in many fields of research.

“Evidence” > “Logic & Reasoning” > “Conclusions”

Conclusions reached by Inference are not Absolute Truth

The dictionary definition of inference is:

- a conclusion reached on the basis of evidence and reasoning.
- synonyms are: deduction, conclusion, reasoning, conjecture, speculation, a guess, presumption, assumption, supposition, reckoning, extrapolation.

Another dictionary definition for statistical inference is: "the theory, methods, and practice of forming judgments about the parameters of a population and the reliability of statistical relationships, typically on the basis of random sampling." The key term in all research inference is "**forming judgements**." It is the process of forming judgements that sometimes goes far astray in reporting research results. It is not uncommon for researchers to “create” unsubstantiated evidence (a.k.a., assumptions) to complete the “forming judgements” part of their work and their conclusions can be very misleading. It is incumbent on the researcher to avoid this behavior or, at least, to make it very clear what assumptions were made.

These definitions, however, do not give a full understanding of how inference is often applied. In historical research, the “evidence” is often sparse, or at best, fragmented, and no amount of “logic and reasoning” can make up for inadequate evidence. This results in “conclusions” that are often shaky, at best, or really wrong, at the worst.

Despite its importance, some researchers do not seem to fully understand the roll of inference in their research. For example, in medicine, we hear the term "statistical inference" which means to present research where the results are reported in terms of probability and statistics, and the reader is often left to make their own conclusions. This is not really “inference.” The conclusions reached by “statistical inference” are one step removed from actual inference and, thus, produce conclusions that are even more speculative, and possibly misguided.

In historical trail research, inference plays a big roll in trying to understand the history of the trail as well as trying to accurately determine its location on a map and documenting associated landmarks and campsites. This is especially true when original-source historical documentation is limited.

In my research, I acknowledge my use of inference to produce my results to the best of my ability, and do not claim to have produced "absolute truth."

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2010

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Appendix C. Final Years as a Trail Researcher

Final Years of a Trail Researcher

I am beginning to realize that I'm in the final years of my life, and definitely in my final years as a "trail pounder." Those trail slopes seem to have gotten much steeper in the past ten years! Many of the hikes I had planned for the future will not be realized. However, 35 years of solo camping and hiking have given me many wonderful memories and exciting adventures that I will cherish.

Those "steep slopes" also apply to my writing and research report production. It is hard for me to accept that there is more research to be done on these trails but my advancing years make it necessary for me to publish what I have at the current time and leave the remainder of the research to future generations.

With my final years starting to loom large, I've decided to produce as many reports on my trail research as time and energy permit. I apologize in advance for some incomplete results, or lack of thoroughness, that will be a natural part of this final effort. That is why I hope future generations will continue on and expand and correct my research.

I still have more than one hundred trails to finish documenting and that will take the remainder of my life – even if I reduce the effort for new research. Documenting old trails has been one of the best journeys of my life and I wish I could live longer and do more research.

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