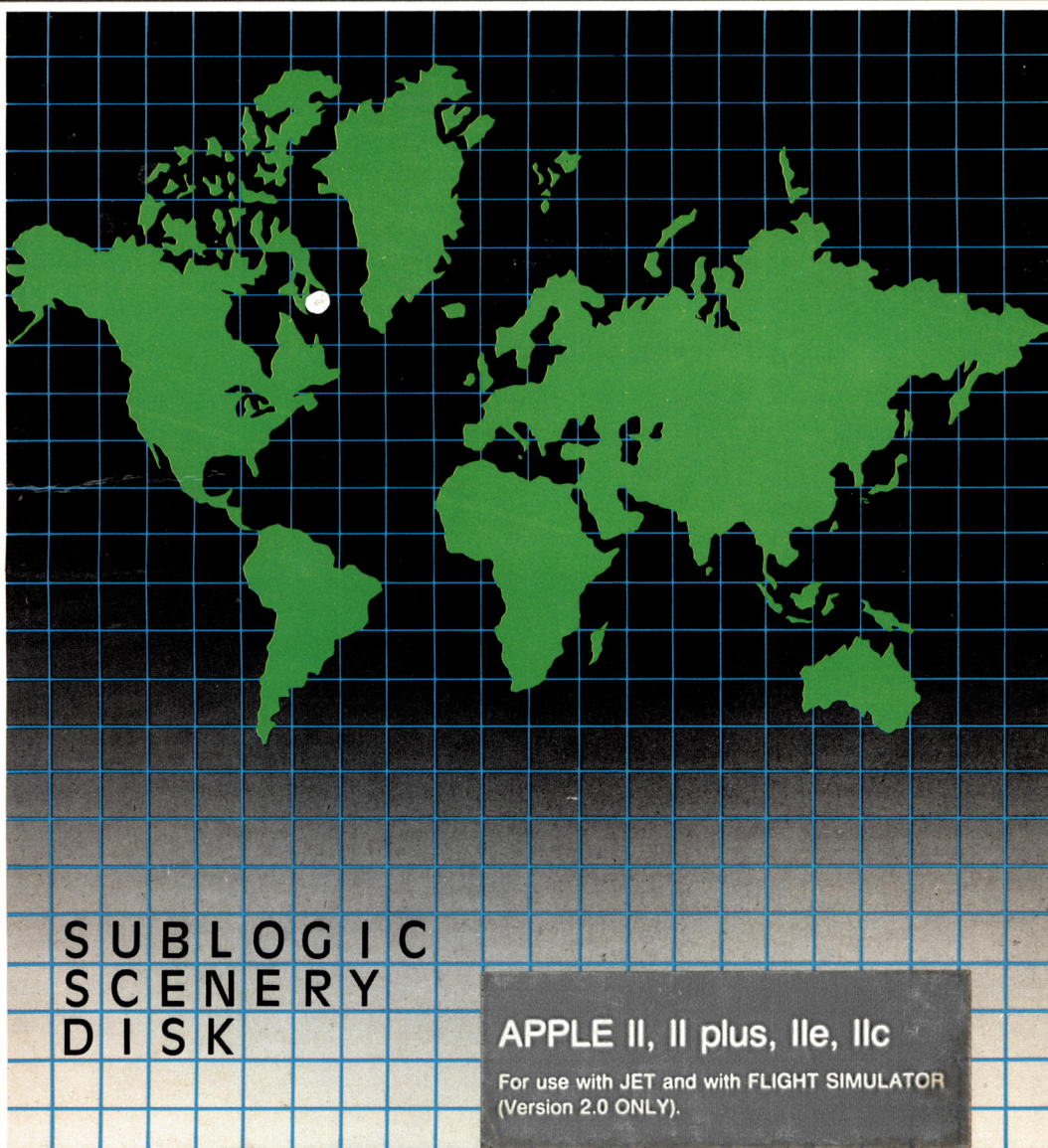
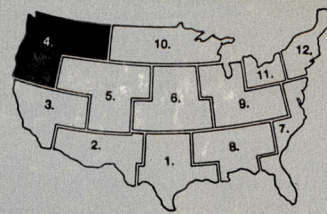


SCENERY DISK 4

1. Klamath Falls
2. Seattle
3. Great Falls



SUBLOGIC
SCENERY
DISK

APPLE II, II plus, Ile, Ilc

For use with JET and with FLIGHT SIMULATOR
(Version 2.0 ONLY).

subLOGIC Scenery Disk

Database Design by Michael Woodley

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First Printing
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SubLOGIC Corporation
713 Edgebrook Drive
Champaign, IL 61820

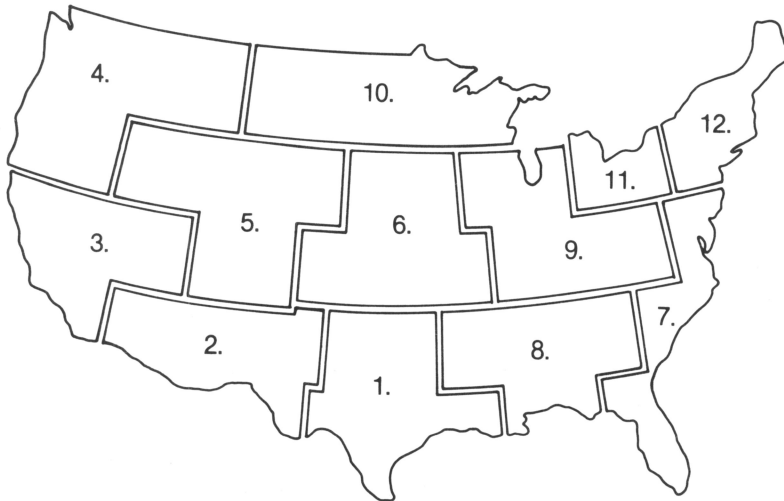
Introduction

SubLOGIC Scenery Disks are an enhancement designed to expand the potential flying environment of Flight Simulator II and other SubLOGIC flight simulation programs. You must have Flight Simulator II, Microsoft Flight Simulator, or Jet in order to use a Scenery Disk.

Twelve separate Scenery Disks covering the entire continental United States were developed using NOAA (National Oceanic and Atmospheric Administration) Sectional Aeronautical Charts and Airport/Facility Directories. These charts divide the United States into 37 different sectionals. Each sectional includes all of the airfields and radio-navigation aids in the area covered by the chart. Sectional charts also show topographical information and obstacles that are important to aviators. Scenery Disk databases were digitized from these NOAA sectionals.

Scenery Disks include enough radio-navigation aids and visual scenery to allow the user to navigate anywhere in the sectional areas covered. A typical Scenery Disk (SD) covers three aeronautical sectionals, and includes approximately 100 airports and 100 radio-nav aids. Some SD's may have more airports and radio-nav aids, since some areas of the country are more densely populated than others. Any of these SD's are ideal for simulating cross-country flights.

SubLOGIC Scenery Disks are grouped by aeronautical sectional. Each SD covers a geographical region of the United States, generally comprised of three sectionals:



WEST

1. Dallas – Ft. Worth
Houston
San Antonio
Brownsville
2. Phoenix
Albuquerque
El Paso
3. San Francisco
Los Angeles
Las Vegas
4. Klamath Falls
Seattle
Great Falls
5. Salt Lake City
Cheyenne
Denver
6. Omaha
Wichita
Kansas City

EAST

7. Washington
Charlotte
Jacksonville
Miami
8. Memphis
Atlanta
New Orleans
9. Chicago
St. Louis
Cincinnati
10. Billings
Twin Cities
Green Bay
11. Lake Huron
Detroit
12. Halifax
Montreal
New York

In addition to twelve regional Scenery Disks, a number of STAR Scenery Disks are also available. A STAR Scenery Disk covers a small area with a relatively dense amount of scenery. These disks are mainly intended for visual flight (sight-seeing). They include buildings and landmarks, as well as detailed renditions of the major airports in the area.

Reading a Sectional Directory

Below is a sample listing from a sectional directory with a description of the information provided. All available airports and radio-nav aids for a given sectional are listed alphabetically. Radio transmitters that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when instrument flying.

1 — 2 - ALBUQUERQUE AND EL PASO — 2

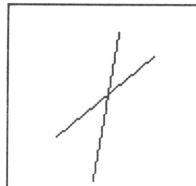
3 — Alpine

4 — 12628N 10661E — 5

6 — alt. 4513

7 — RWY 1-19
RWY 5-23

8 — 5999 X 72
4821 X 39



9 — Anton Chico (VOR) — 10

4 — 14710N 10537E — 5

11 — freq. 110

9 — Artesia (NDB) — 10

4 — 13703N 10575E — 5

11 — freq. 414

- | | |
|----|---------------------------|
| 1 | Page number |
| 2 | Sectional name |
| 3 | Airport name |
| 4 | North coordinate |
| 5 | East coordinate |
| 6 | Altitude in feet |
| 7 | Runway Designator, number |
| 8 | Runway dimensions in feet |
| 9 | Radio Aid name |
| 10 | Radio Aid type designator |
| 11 | Radio Aid frequency |

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Using a Scenery Disk with Flight Simulator II

Load Flight Simulator II in the usual way. When the program has finished loading, enter the simulator's program editor as described in your operating manual and set the NORTH and EAST coordinates of the airport you've chosen from the directory for the region you'd like to explore (set ALTITUDE to 0). Exit the editor, remove the FSII disk and insert the appropriate Scenery Disk. Next, press CTRL E and wait for a menu to appear. This menu page lists the names of the sectionals included on the Scenery Disk. Press any key to exit, and you should find yourself at the airport you've selected. If no scenery is visible, go into radar mode and zoom out to determine your approximate location. You may be able to zoom all the way out and view the entire continental United States database, complete with rivers, highways, coastlines, and the Great Lakes. This default database display indicates that you are not within the boundaries of the sectionals included on your disk. Re-enter the program editor and double-check your coordinates, making sure that both NORTH and EAST coordinates are correct.

When you find yourself at the airport you've selected, it may be a good idea to save your position to a User Mode (see User Mode Library in the FSII Pilot's Operating Handbook). This way, if you crash, you will be returned to the selected airport. Otherwise you will be returned to a preset location (above Lake Michigan) in the default USA database.

Crossing a Sectional Boundary

When you fly over a sectional boundary, one of two things will occur. If the neighboring sectional is also included on your Scenery Disk, that sectional will load and you will have to switch to the appropriate new map and directory provided. If the neighboring sectional is not available on your disk, a common default USA database will load. This default database allows you to zoom out (in radar mode) to view the major geographical features of the United States.

If you have another Scenery Disk containing the appropriate sectional, you can switch disks and press CTRL E to log-in the new disk. After a brief load, the names of the new sectionals available on this disk will be displayed. Press any key to exit and return to Flight Simulator II.

IMPORTANT - If you want to change Scenery Disks or go back to the scenery on the FS2 disk, you must log-in the new disk by pressing CTRL E. If you do not log-in the new disk, you will not get the new scenery and you will risk causing a disk load error.

Using a Scenery Disk with Microsoft Flight Simulator (IBM PC Versions)

Load Flight Simulator in the usual way. When you want to switch to a Scenery Disk, remove the Flight Simulator disk and insert the appropriate Scenery Disk. Press CTRL E. This will log-in the disk. A message will appear on the screen identifying the names of the sectional areas contained on the disk.

The first Scenery Disk log-in automatically checks to see if you have the most recent version of Flight Simulator. If you don't, the program updates Flight Simulator in memory. When this happens, your flight coordinates are set back to the Chicago area. This will only happen on the first Scenery Disk log-in of the session. After the first log-in, your flight coordinates and conditions will carry over as you change Scenery Disks while flying.

After logging in the first Scenery Disk, you can fly or slew through all of the scenery on the disk. You can freely exchange Scenery Disks as you fly to new areas. Press CTRL E to log-in the new area when you switch disks. If you fail to log-in a new Scenery Disk after inserting it, it will be automatically logged in when the disk is accessed. The log-in message will appear after every manual or automatic log-in.

Using the Microsoft Flight Simulator Disk as a Scenery Disk

The Flight Simulator disk contains all of the usual scenery for the Chicago, Seattle, Los Angeles, and New York areas. You can insert this disk and log it in as you would any other Scenery Disk to fly in these areas. This applies to Jet as well as Flight Simulator.

Special Note for IBM PC Flight Simulator Version 2.0

Very few copies of Version 2.0 exist. You most likely have Version 2.1, 2.10, 2.10a, 2.12, or a later version of Microsoft Flight Simulator. Look on the disk label near the serial number area, or look on the first menu page when loading Flight Simulator. If you have Version 2.0, insert the Scenery Disk and press ESC instead of CTRL E for the first log-in of the session. After this first log-in, press CTRL E as usual to log-in new Scenery Disks. Also, never re-insert the Version 2.0 disk to use the Chicago, Seattle, Los Angeles, or New York scenery; you must re-boot Version 2.0 to return to these areas. Version 2.0 also cannot be used as a Scenery Disk for Jet.

Tandy 1000/1200/2000 Flight Simulator

Scenery Disks are compatible with the Tandy 1000/1200/2000 version of Flight Simulator. With this version, always make sure to log-in a new Scenery Disk by pressing CTRL E once the disk has been inserted. No auto-load is available on this version, and failure to log-in a new disk can cause unpredictable results when the disk is accessed after an unlogged disk change.

Special Note for Compaq 286 Users

The 1.2Mbyte floppy drives in the Compaq Deskpro 286 computer cause disk-read errors when using Scenery Disks with SubLOGIC Jet or Microsoft Flight Simulator. Here is the reason why, and how to get around it:

PROBLEM - Whenever you remove a disk from the floppy drive by turning the release lever, the diskette springs out of the drive. This spring action triggers a switch in the drive that informs the disk read/write software that you have just changed the disk. The software assumes that you are about to insert a new disk, and switches to 1.2Mbyte read mode from whatever mode it happens to be in. Jet, Flight Simulator, Scenery Disks (and many other manufacturers programs) are on 360K disks, and a read error results when the Compaq 286 tries to read them as 1.2Mbyte disks.

You can verify this for yourself using the Microsoft Flight Simulator. Boot the disk, then enter and exit the editor several times (ESC key) just to see that everything is functioning properly. Then pop the disk out of the drive, re-insert it, and try to get back into the program editor. You will get a disk read error.

SOLUTION - You can avoid this problem by tricking the disk drive into thinking that you haven't changed disks. Do this by holding the disk in place with your finger while releasing the disk-release lever. **DON'T LET THE DISK POP OUT OF THE DRIVE.** Then manually remove the disk and insert a Scenery Disk (or Flight Simulator as scenery for Jet). The computer will never know that you changed the disk, and everything should work fine. Remember - if you let the disk pop itself out of the drive, the switch will be activated and the drive will go into 1.2Mbyte mode, thus creating errors.

Jet Users

Scenery Disks are compatible with SubLOGIC Jet. Follow the instructions in your Jet manual for loading a Scenery Disk. Jet has no automatic log-in feature, so always make sure you return to the Jet startup menu page before inserting a new Scenery disk. Changing Scenery Disks in the middle of a Jet flight can cause unpredictable results when the disk is accessed after a disk change.

Conclusion

As of this writing there are no fuel or repair facilities available on regular Scenery Disks (although they do occur on STAR Scenery Disks). To refuel, just land at an airport and enter the program editor. Your tanks will be filled and repairs will be made when you exit the editor.

We intend to periodically update and improve our Scenery Disks to include more airports, radio aids, and scenery details as recommended by users. If you know of an airport (or any other detail) that should be included on future versions of these Scenery Disks, please drop us a line and include the required information ON A SEPARATE SHEET OF PAPER (so we can store it in our files). Here's what we need to know:

Airports:	NAME, CITY, & STATE LATITUDE, LONGITUDE, & ALTITUDE HEADING, LENGTH, & WIDTH of each runway
Buildings, objects:	NAME, CITY, & STATE LATITUDE, LONGITUDE, & DIMENSIONS

Pictures and postcards are also welcome, especially aerial views. If you're unable to determine the latitude and longitude for the object or airport in question, please provide a description of where the object can be located on a map. All customer correspondence is read and answered (when appropriate). And please; remember to include any scenery suggestions or information on a SEPARATE page of your letter.

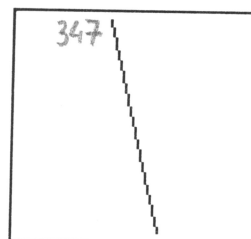
Abeta (NDB)

18912N 5055E
freq. 233

Alkali Lake State

19309N 6624E
alt. 4313

RWY 17-35 6149 X 147



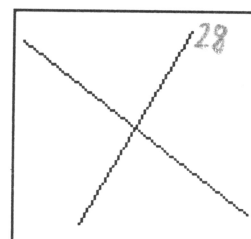
Alturas (NDB)

18716N 6231E
freq. 215

Alturas

18711N 6223E
alt. 4376

RWY 13-31 4296 X 49
RWY 3-21 3457 X 59



Arcata (VOR)

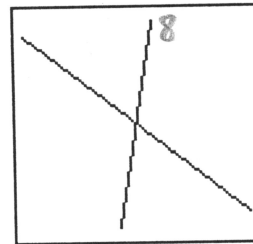
18923N 5058E
freq. 110.2

2 - KLAMATH FALLS

Arcata

18914N 5062E
alt. 216

RWY 13-31 5995 X 147
RWY 1-19 4496 X 147



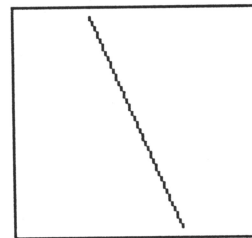
Baker (VOR)

19811N 7453E
freq. 115.3

Bandon State

19799N 5311E
alt. 115

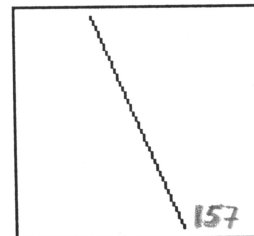
RWY 16-34 2594 X 49



Bend

19848N 6408E
alt. 3418

RWY 16-34 3801 X 72



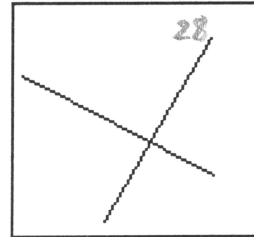
Bodey (NDB)

19936N 6503E
freq. 411

Burns

19413N 7000E
alt. 4143

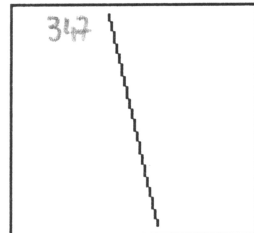
RWY 3-21 5097 X 147
RWY 12-30 5097 X 147



Chiloquin State

19304N 5982E
alt. 4218

RWY 17-35 3732 X 42



Corvallis (VOR)

20263N 5864E
freq. 108.4

Council (NDB)

19649N 7881E
freq. 274

Crescent City (VOR)

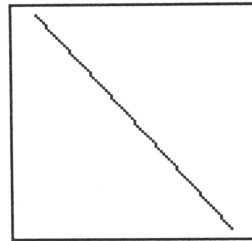
19263N 5145E
freq. 109

4 - KLAMATH FALLS

Denmark, Cape Blanco State

19724N 5243E
alt. 213

RWY 14-32 5097 X 147



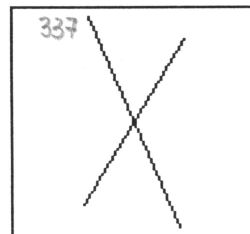
Eugene (VOR)

20102N 5826E
freq. 112.9

Eugene, Mahlon Sweet

20081N 5824E
alt. 364

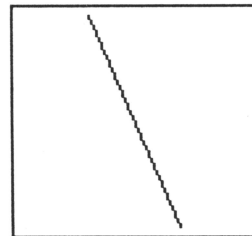
RWY 16-34 6199 X 147
RWY 3-21 5218 X 147



Eureka Muni

18847N 4997E
alt. 20

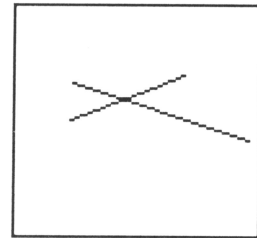
RWY 16-34 2699 X 72



Eureka, Murray

18840N 5029E
alt. 7

RWY 11-29 2997 X 72
RWY 7-25 2027 X 49



Fort Jones (VOR)

18954N 5530E
freq. 109.6

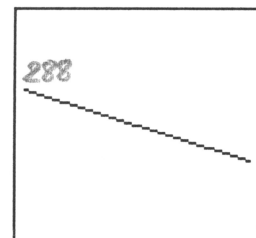
Fortuna (VOR)

18808N 4965E
freq. 114

Fortuna, Rohnerville

18746N 4984E
alt. 390

RWY 11-29 4024 X 98



Gold Beach (NDB)

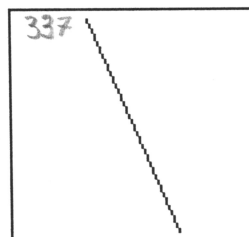
19549N 5194E
freq. 396

6 - KLAMATH FALLS

Gold Beach

19534N 5197E
alt. 16

RWY 16-34 3197 X 72



Goose (NDB)

18977N 6374E
freq. 278

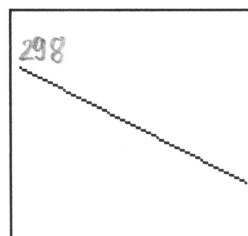
Grants Pass (NDB)

19460N 5525E
freq. 219

Grants Pass, Josephine Co.

19446N 5524E
alt. 1122

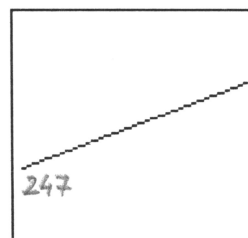
RWY 12-30 3998 X 72



Hayfork

18625N 5273E
alt. 2322

RWY 7-25 4113 X 59



Kimberly (VOR)

19930N 6869E
freq. 115.6

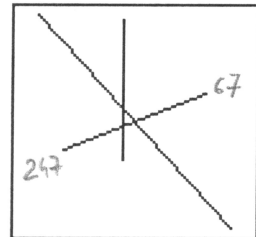
Klamath Falls (VOR)

19120N 5968E
freq. 115.9

Klamath Falls, Kingsley

19113N 5962E
alt. 4093

RWY 14-32	10299 X 147
RWY 7-25	5257 X 147
RWY 0-18	5159 X 196



La Grande (NDB)

20046N 7472E
freq. 296

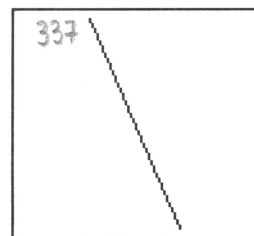
Lakeview (VOR)

19130N 6393E
freq. 112

Lakeview - Lake Co

18970N 6364E
alt. 4726

RWY 16-34 5297 X 98



8 - KLAMATH FALLS

Lewiston (VOR)

20346N 7937E
freq. 108.2

Manno (NDB)

20335N 7935E
freq. 374

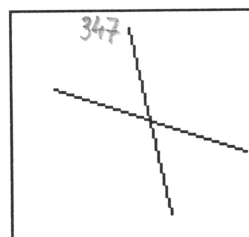
McCall (VOR)

19634N 7954E
freq. 116.2

McNamara

19252N 5150E
alt. 56

RWY 11-29 5001 X 147
RWY 17-35 5001 X 147



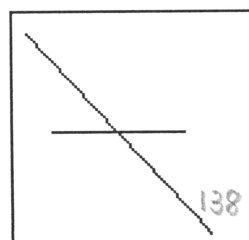
Medford (VOR)

19393N 5660E
freq. 113.6

Medford - Jackson Co.

19334N 5655E
alt. 1332

RWY 14-32 6697 X 147
RWY 9-27 3142 X 147



Merrill (NDB)

19041N 5970E
freq. 347

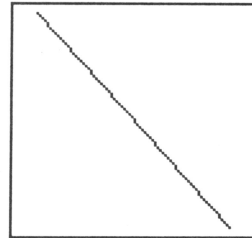
Montague (NDB)

19033N 5674E
freq. 382

Montague - Yreka Rohrer

19034N 5652E
alt. 2526

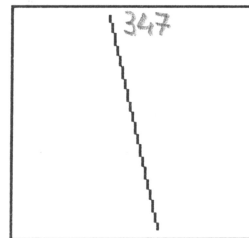
RWY 14-32 3358 X 49



Montague, Siskiyou Co.

19043N 5681E
alt. 2634

RWY 17-35 7481 X 147



Newport (VOR)

20407N 5613E
freq. 117.1

North Bend (VOR)

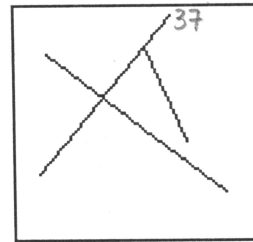
19922N 5433E
freq. 112.1

10 - KLAMATH FALLS

North Bend

19922N 5414E
alt. 13

RWY 13-31	5044 X 147
RWY 4-22	4611 X 147
RWY 16-34	2299 X 147



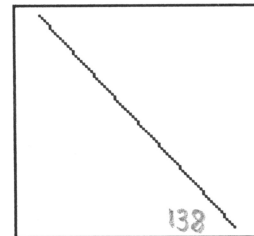
Ontario (NDB)

19420N 7659E
freq. 305

Ontario

19408N 7634E
alt. 2188

RWY 14-32 4529 X 98



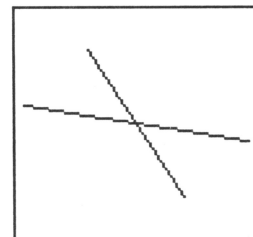
Pendleton (VOR)

20275N 7250E
freq. 114.7

Prineville

19896N 6527E
alt. 3247

RWY 10-28	4998 X 59
RWY 15-33	3998 X 39



Proberta (NDB)

18342N 5502E
freq. 338

Red Bluff (VOR)

18332N 5500E
freq. 115.7

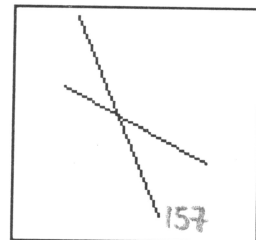
Redding (VOR)

18508N 5545E
freq. 108.4

Redding Muni.

18508N 5545E
alt. 502

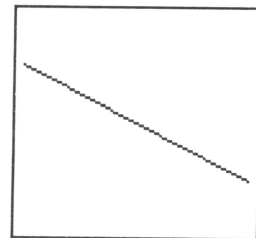
RWY 16-34 7002 X 147
RWY 12-30 5061 X 147



Redding Sky Ranch

18514N 5511E
alt. 502

RWY 12-30 2397 X 39

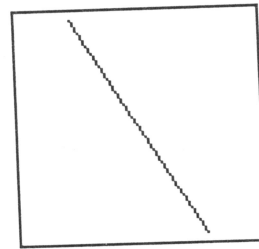


12 - KLAMATH FALLS

Redding, Benton

18548N 5519E
alt. 718

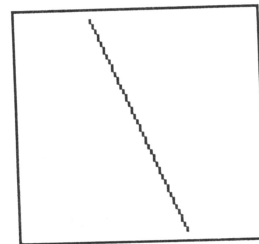
RWY 15-33 2417 X 78



Redding, Enterprise

18540N 5544E
alt. 581

RWY 16-34 2656 X 42



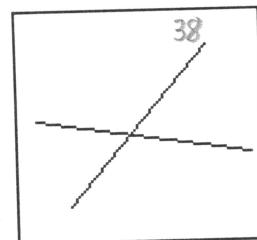
Redmond (VOR)

19943N 6413E
freq. 117.6

Redmond, Roberts

19909N 6447E
alt. 3077

RWY 4-22 7038 X 147
RWY 10-28 6996 X 147



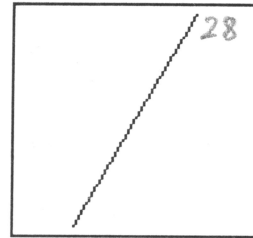
Rome (VOR)

18903N 7217E
freq. 112.5

Rome State

18892N 7188E
alt. 4054

RWY 3-21 5999 X 147



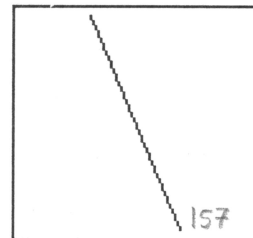
Roseburg (VOR)

19731N 5638E
freq. 108.2

Roseburg

19750N 5653E
alt. 525

RWY 16-34 4598 X 98



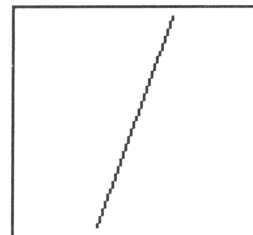
Siskiyou Co. (VOR)

19051N 5686E
freq. 110.8

Sisters Eagle Air

19974N 6341E
alt. 3165

RWY 2-20 3548 X 49



14 - KLAMATH FALLS

Sod House (VOR)

18421N 7010E
freq. 114.3

Walla Walla (VOR)

20367N 7490E
freq. 116.4

Wildhorse (VOR)

19427N 7018E
freq. 113.8

Winnemucca (NDB)

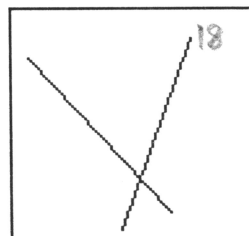
18215N 7013E
freq. 375

Winnemucca

18187N 6997E
alt. 4303

RWY 2-20
RWY 14-32

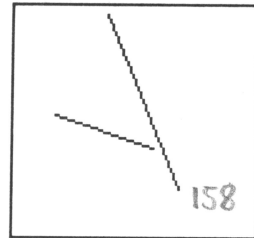
4998 X 147
4998 X 147



Arlington

21619N 6744E
alt. 138

RWY 16-34 5329 X 98
RWY 11-29 2797 X 72



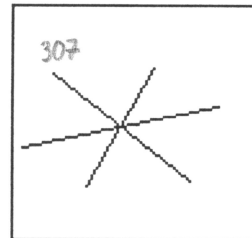
Astoria (VOR)

21017N 5941E
freq. 114

Astoria, Port of Astoria

21009N 5937E
alt. 10

RWY 8-26 5795 X 147
RWY 13-31 5057 X 196
RWY 3-21 3981 X 196



Baker (VOR)

19811N 7453E
freq. 115.3

Bellingham (VOR)

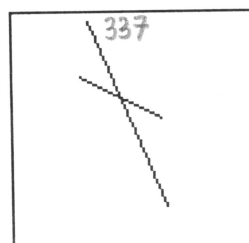
21979N 6763E
freq. 113

2 - SEATTLE

Bellingham Int'l ?

21911N 6748E
alt. 157

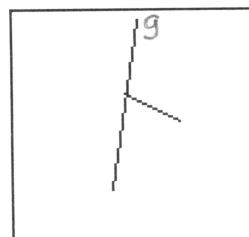
RWY 16-34 4998 X 147
RWY 12-30 2181 X 72



Bremerton Nat'l

21414N 6473E
alt. 482

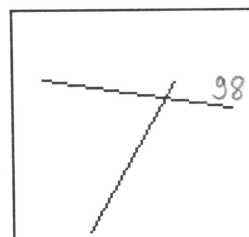
RWY 1-19 6199 X 147
RWY 12-30 2181 X 72



Burlington, Shagit Reg./Bay View

21772N 6727E
alt. 141

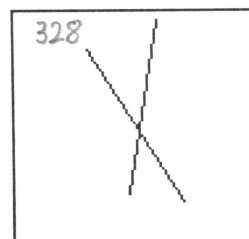
RWY 10-28 5362 X 147
RWY 3-21 5080 X 147



Chehalis Centralia

21114N 6271E
alt. 75

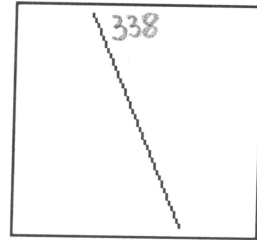
RWY 1-19 4998 X 147
RWY 15-33 4998 X 147



Deer Park

21051N 8004E
alt. 2207

RWY 16-34 6097 X 72



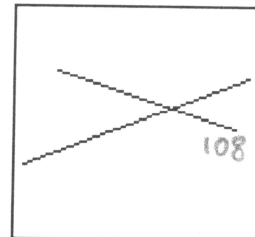
Ellensburg (VOR)

20975N 7025E
freq. 117.9

Ellensburg, Bowers

20986N 7006E
alt. 1765

RWY 7-25 5549 X 147
RWY 11-29 4296 X 147



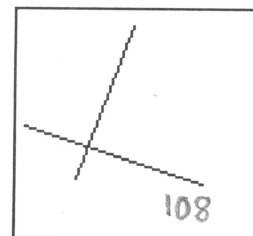
Ephrata (VOR)

21009N 7366E
freq. 112.6

Ephrata

20987N 7332E
alt. 1273

RWY 11-29 7297 X 147
RWY 2-20 6697 X 147

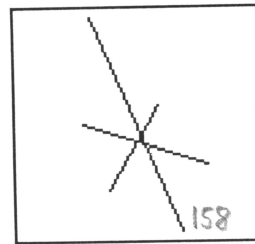


4 - SEATTLE

Everett, Snohomish Co

21532N 6670E
alt. 604

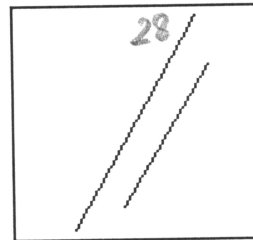
RWY 16-34	9006 X 147
RWY 11-29	4946 X 72
RWY 3-21	3726 X 147



Felts

20927N 7989E
alt. 1952

RWY 3-21	4496 X 147
RWY 3-21	3056 X 72



Hoquiam (VOR)

21362N 6002E
freq. 117.7

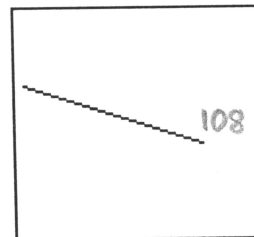
Kelso (NDB)

20899N 6207E
freq. 256

Kelso - Longview

20882N 6202E
alt. 16

RWY 11-29	4391 X 98
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Kitsap (NDB)

21415N 6474E
freq. 206

La Grande (NDB)

20046N 7472E
freq. 296

Laker (NDB)

20601N 6227E
freq. 332

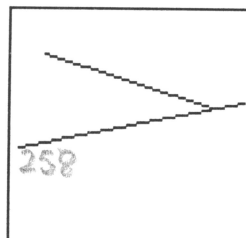
Lewiston (VOR)

20346N 7937E
freq. 108.2

Lewiston - Nez Perce

20358N 7894E
alt. 1437

RWY 8-26 6510 X 147
RWY 11-29 4998 X 98



Lummi (NDB)

21913N 6748E
freq. 385

Manno (NDB)

20335N 7935E
freq. 374

6 - SEATTLE

Mason Co (NDB)

21359N 6342E
freq. 348

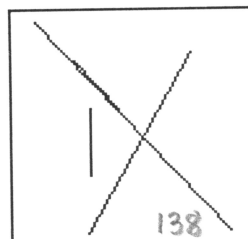
McChord (VOR)

21245N 6492E
freq. 109.6

Moses Lake, Grant Co

20930N 7370E
alt. 1184

RWY 14-32	13500 X 298
RWY 3-21	9997 X 196
RWY 0-18	3260 X 72
RWY 14-32	3024 X 72



Neah Bay (NDB)

21969N 6139E
freq. 301

Newberg (VOR)

20586N 6051E
freq. 117.4

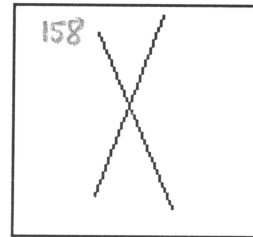
Newport (VOR)

20407N 5613E
freq. 117.1

Newport

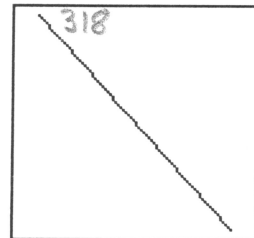
20410N 5615E
alt. 161

RWY 16-34 5077 X 147
RWY 2-20 5077 X 147

**Ocean Shores**

21386N 6008E
alt. 10

RWY 14-32 2692 X 59

**Olympia (VOR)**

21226N 6345E
freq. 113.4

Olympia

21226N 6346E
alt. 207

RWY 17-35 5398 X 147
RWY 8-26 4998 X 147

**Omak (NDB)**

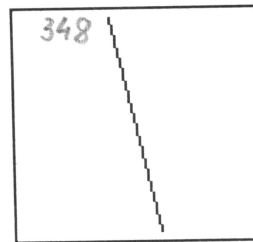
21458N 7502E
freq. 396

8 - SEATTLE

Omak

21461N 7505E
alt. 1302

RWY 17-35 4647 X 147



Paine (VOR)

21528N 6668E
freq. 114.2

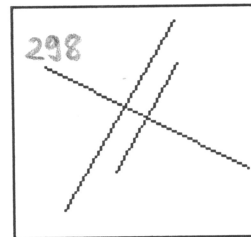
Pasco (VOR)

20525N 7283E
freq. 108.4

Pasco, Tri Cities

20524N 7282E
alt. 407

RWY 3-21 7698 X 147
RWY 12-30 7698 X 147
RWY 3-21 4427 X 72



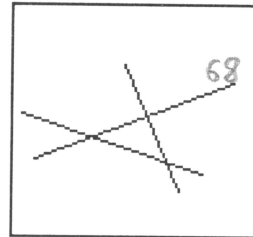
Pendleton (VOR)

20275N 7250E
freq. 114.7

Pendleton

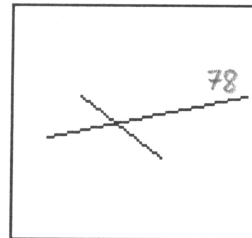
20264N 7276E
alt. 1492

RWY 7-25	6300 X 147
RWY 11-29	5585 X 147
RWY 16-34	4149 X 72

**Port Angeles, Fairchild Int'l**

21752N 6382E
alt. 289

RWY 8-26	6346 X 147
RWY 13-31	3243 X 49

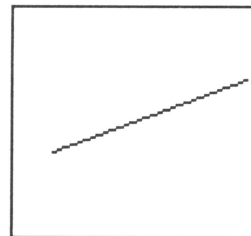
**Portland (VOR)**

20697N 6226E
freq. 116.6

Portland - Troutdale

20597N 6246E
alt. 36

RWY 7-25	5398 X 147
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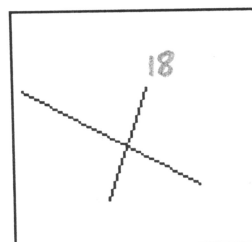


10 - SEATTLE

Portland Hillsboro

20658N 6090E
alt. 203

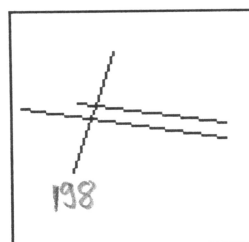
RWY 12-30	6599 X 147
RWY 2-20	4047 X 147



Portland Int'l

20628N 6194E
alt. 26

RWY 10-28	11010 X 147
RWY 10-28	8003 X 147
RWY 2-20	6999 X 147



Pullman (VOR)

20500N 7877E
freq. 109

Pullman - Moscow

20520N 7918E
alt. 1204

RWY 5-23	6730 X 98
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Quillayute State

21805N 6064E
alt. 194

RWY 4-22 3998 X 72



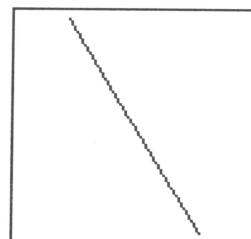
Renton (NDB)

21355N 6617E
freq. 353

Renton

21355N 6616E
alt. 30

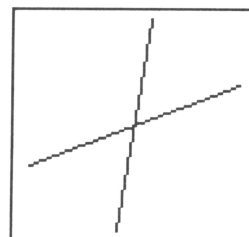
RWY 15-33 5375 X 196



Richland

20560N 7237E
alt. 390

RWY 1-19 3998 X 72
RWY 7-25 3991 X 98

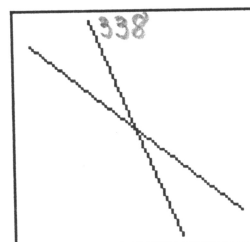


12 - SEATTLE

Salem, McNary

20413N 5967E
alt. 210

RWY 13-31	5808 X 147
RWY 16-34	5133 X 147



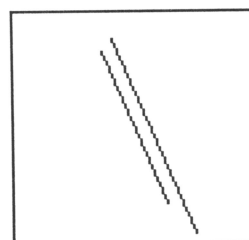
Seattle (VOR)

21343N 6584E
freq. 116.8

Seattle - Tacoma, Henry M. Jackson

21349N 6584E
alt. 430

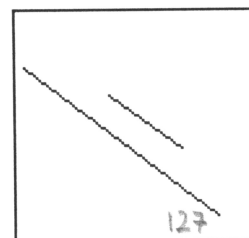
RWY 16-34	11899 X 147
RWY 16-34	9423 X 147



Seattle, Boeing Fld/King Co

21379N 6599E
alt. 16

RWY 13-31	10000 X 196
RWY 13-31	3709 X 98



Shelton, Sanderson

21361N 6320E
alt. 279

RWY 17-35 5290 X 147
RWY 5-23 5047 X 98



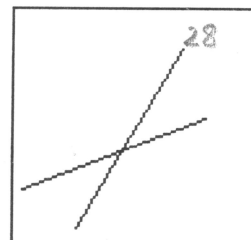
Spokane (VOR)

20907N 7890E
freq. 115.5

Spokane Int'l

20923N 7924E
alt. 2371

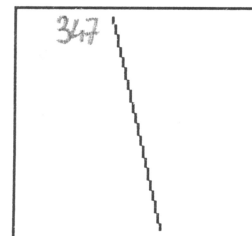
RWY 3-21 8997 X 147
RWY 7-25 8196 X 147



Tacoma Narrows

21310N 6482E
alt. 292

RWY 17-35 5001 X 147



Tatoosh (VOR)

21955N 6111E
freq. 112.2

14 - SEATTLE

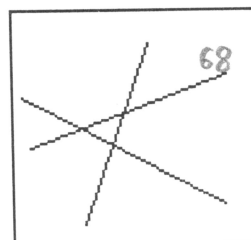
The Dalles (VOR)

20514N 6639E
freq. 112.3

The Dalles

20483N 6604E
alt. 243

RWY 12-30	5097 X 147
RWY 7-25	4647 X 147
RWY 2-20	4405 X 147



Tillamook

20715N 5829E
alt. 36

RWY 13-31	4998 X 147
RWY 1-19	3998 X 147



Toledo - Winlock/Ed Carlson

21012N 6286E
alt. 371

RWY 5-23	4998 X 147
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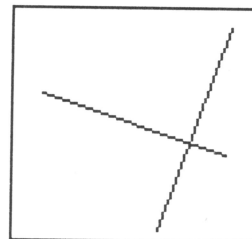
Victoria (VOR)

21993N 6488E
freq. 113.7

Vista

20515N 7249E
alt. 522

RWY 2-20	3489 X 147
RWY 11-29	2997 X 147

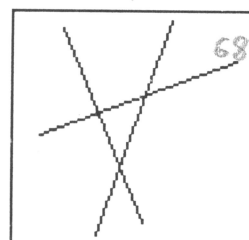
**Walla Walla (VOR)**

20367N 7490E
freq. 116.4

Walla Walla City - Co

20371N 7495E
alt. 1204

RWY 2-20	7186 X 147
RWY 16-34	6596 X 298
RWY 7-25	6448 X 298

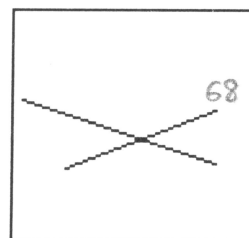
**Wenatchee (VOR)**

21102N 7153E
freq. 111

Wenatchee, Pangborn

21100N 7153E
alt. 1246

RWY 11-29	5497 X 147
RWY 7-25	4345 X 147



16 - SEATTLE

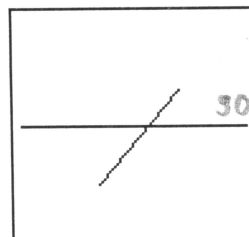
Yakima (VOR)

20787N 6957E
freq. 116

Yakima

20796N 6928E
alt. 1096

RWY 9-27	7599 X 147
RWY 4-22	4290 X 147



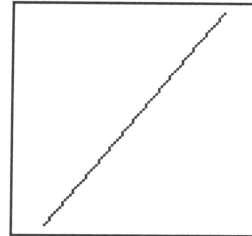
Amsterdam (NDB)

19644N 9581E
freq. 329

Anaconda

19941N 9104E
alt. 5032

RWY 4-22 4496 X 59



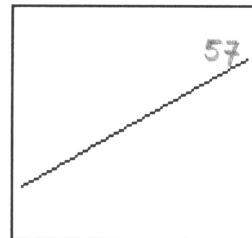
Beaverhead (NDB)

19546N 9114E
freq. 379

Big Timber

19588N 9909E
alt. 4480

RWY 6-24 4647 X 72



Billings (VOR)

19492N 10339E
freq. 114.5

Blackfoot (NDB)

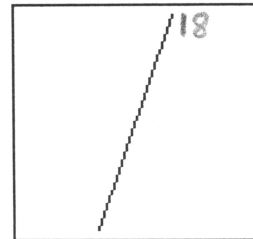
20925N 9521E
freq. 260

2 - GREAT FALLS

Bonnars Ferry, Boundary Co.

21286N 8431E
alt. 2332

RWY 2-20 3998 X 72



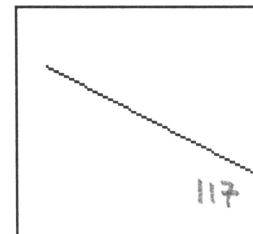
Bozeman (VOR)

19655N 9578E
freq. 112.2

Bozeman, Gallatin

19658N 9561E
alt. 4458

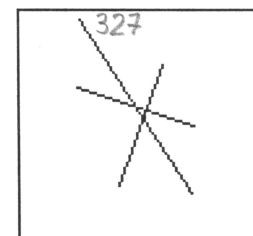
RWY 12-30 9000 X 147



Butte, Bert Mooney

19819N 9187E
alt. 5553

RWY 15-33 8997 X 147
RWY 2-20 5543 X 72
RWY 11-29 5100 X 72



Capitol (NDB)

20061N 9435E
freq. 317

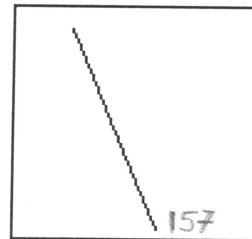
Challis (NDB)

19359N 8519E
freq. 207

Challis

19368N 8516E
alt. 5071

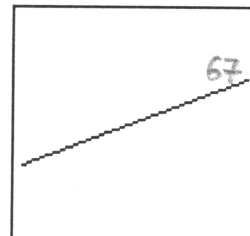
RWY 16-34 4598 X 59



Chester, Liberty Co.

20798N 9883E
alt. 3168

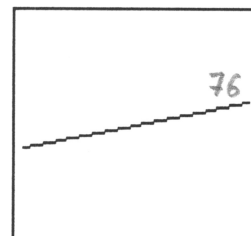
RWY 7-25 3197 X 72



Chinook

20725N 10381E
alt. 2411

RWY 8-26 3899 X 59



Choteau (NDB)

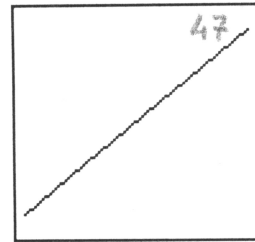
20602N 9497E
freq. 269

4 - GREAT FALLS

Choteau

20597N 9482E
alt. 3946

RWY 5-23 3798 X 59



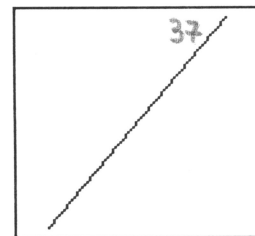
Cody (VOR)

19004N 10129E
freq. 111.8

Cody, Faust Regional

18980N 10081E
alt. 5091

RWY 4-22 7104 X 98



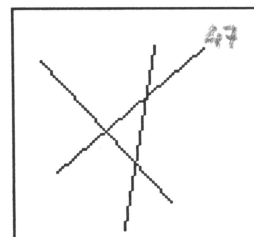
Coeur D'Alene (VOR)

20948N 8164E
freq. 108.8

Coeur D'Alene

20939N 8165E
alt. 2319

RWY 14-32 5398 X 137
RWY 5-23 5398 X 137
RWY 1-19 5398 X 72



Conrad (NDB)

20736N 9605E
freq. 293

Conrad

20725N 9569E
alt. 3536

RWY 5-23 4598 X 72

**Coppertown (VOR)**

19876N 9133E
freq. 111.6

Council (NDB)

19649N 7881E
freq. 274

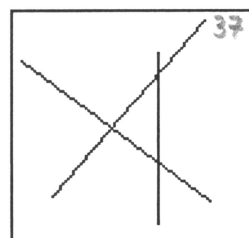
Cut Bank (VOR)

20927N 9525E
freq. 114.4

Cut Bank

20940N 9504E
alt. 3854

RWY 13-31 5297 X 72
RWY 4-22 5297 X 72
RWY 0-18 3998 X 72

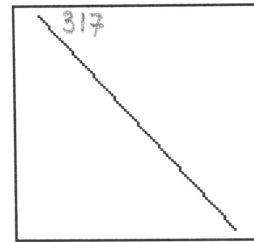


6 - GREAT FALLS

Dell Flight Strip

19333N 8989E
alt. 6006

RWY 14-32 4998 X 147



Desmet (NDB)

20371N 8835E
freq. 308

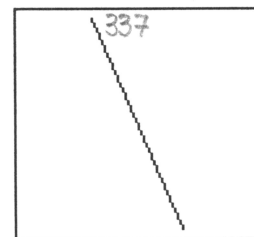
Dillon (VOR)

19528N 9107E
freq. 113

Dillon

19537N 9095E
alt. 5238

RWY 16-34 3998 X 72



Drummond (VOR)

20167N 9072E
freq. 117.1

Eureka (NDB)

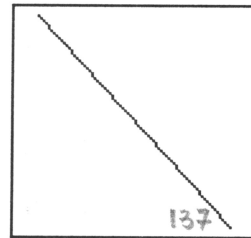
21305N 8800E
freq. 392

GREAT FALLS - 7

Eureka

21272N 8787E
alt. 2680

RWY 14-32 4017 X 49



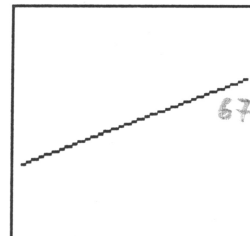
Grain (NDB)

20128N 8106E
freq. 280

Grangeville, Idaho Co.

20121N 8131E
alt. 3310

RWY 7-25 4496 X 59



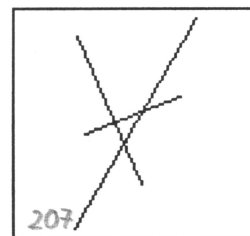
Great Falls (VOR)

20385N 9674E
freq. 115.1

Great Falls Int'l

20394N 9674E
alt. 3674

RWY 3-21 10499 X 147
RWY 16-34 6999 X 147
RWY 7-25 4306 X 147



8 - GREAT FALLS

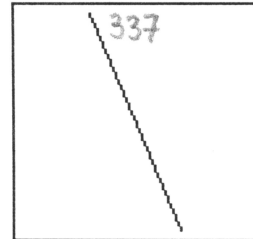
Hamilton (NDB)

20083N 8753E
freq. 410

Hamilton, Ravalli Co.

20083N 8747E
alt. 3638

RWY 16-34 4198 X 72



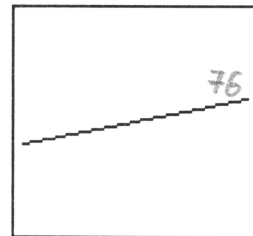
Harlowton (NDB)

19840N 10037E
freq. 242

Harlowton, Wheatland Co. at Harlowton

19853N 10012E
alt. 4310

RWY 8-26 4198 X 49



Hauser (NDB)

20033N 9485E
freq. 386

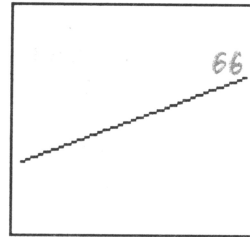
Havre (VOR)

20747N 10256E
freq. 111.8

Havre City Co.

20740N 10232E
alt. 2585

RWY 7-25 5202 X 98



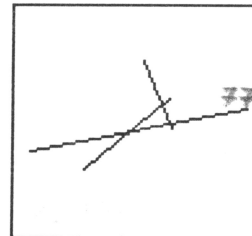
Helena (VOR)

20061N 9429E
freq. 117.7

Helena

20065N 9413E
alt. 3874

RWY 8-26 8997 X 147
RWY 5-23 4598 X 72
RWY 16-34 3152 X 72



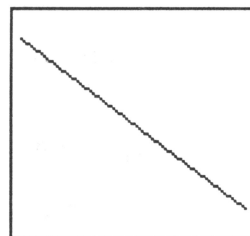
Kalispell (VOR)

20915N 8967E
freq. 108.4

Kalispell City

20900N 8914E
alt. 2932

RWY 13-31 3598 X 68

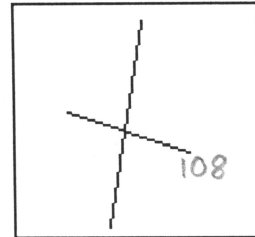


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Kalispell, Glacier Park Int'l

20955N 8947E
alt. 2972

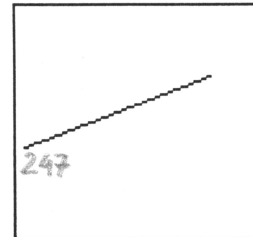
RWY 1-19 7999 X 147
RWY 11-29 4723 X 147



Kellogg, Shoshone Co.

20790N 8311E
alt. 2224

RWY 7-25 5497 X 72



Leeds (NDB)

20742N 10277E
freq. 389

Lewiston (VOR)

20371N 7971E
freq. 108.2

Lewistown (NDB)

20098N 10181E
freq. 353

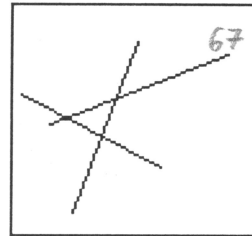
Lewistown (VOR)

20094N 10161E
freq. 112

Lewistown

20084N 10178E
alt. 4166

RWY 2-20	5589 X 98
RWY 7-25	5585 X 98
RWY 12-30	4598 X 72



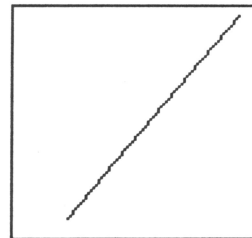
Livingston (VOR)

19565N 9782E
freq. 116.1

Livingston, Mission

19570N 9762E
alt. 4658

RWY 4-22 5697 X 72



Manno (NDB)

20361N 7971E
freq. 374

McCall (VOR)

19634N 7954E
freq. 116.2

Missoula (VOR)

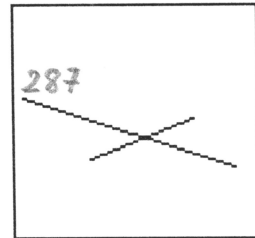
20354N 8840E
freq. 112.8

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Missoula

20356N 8831E
alt. 3201

RWY 11-29 9498 X 147
RWY 7-25 4805 X 98



Mullan Pass (VOR)

20714N 8457E
freq. 117.8

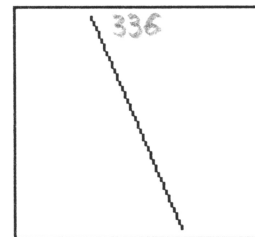
Mullan Pass (VOR)

20714N 8457E
freq. 117.8

Philipsburg, Riddick

20043N 8989E
alt. 5212

RWY 16-34 3598 X 59



Pullman (VOR)

20500N 7877E
freq. 109

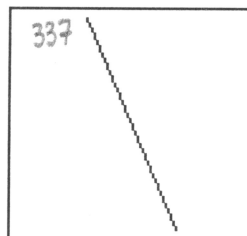
Salmon (VOR)

19556N 8620E
freq. 113.5

Salmon

19586N 8687E
alt. 4044

RWY 16-34 5198 X 59



Sand Coulee (VOR)

20390N 9743E
freq. 116.3

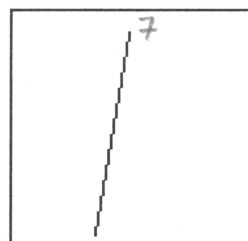
Sand Poe (NDB)

21145N 8303E
freq. 264

Sandpoint, County - City

21134N 8294E
alt. 2125

RWY 1-19 3942 X 72



Shelby (NDB)

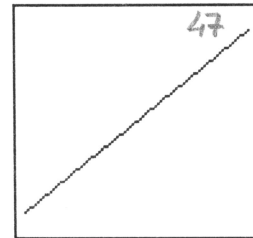
20886N 9653E
freq. 347

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Shelby

20877N 9636E
alt. 3434

RWY 5-23 4598 X 72



Smith Lake (NDB)

20891N 8874E
freq. 287

Spokane (VOR)

20907N 7890E
freq. 115.5

Townsend

19915N 9524E
alt. 3900

RWY 16-34 4099 X 68



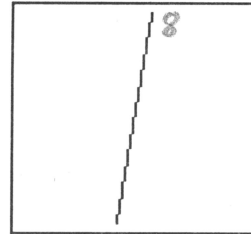
Truly (NDB)

20347N 9677E
freq. 371

West Yellowstone, Yellowstone

19193N 9469E
alt. 6645

RWY 1-19 8396 X 147



Whitehall (VOR)

19760N 9285E
freq. 113.7

Yellowstone (NDB)

19183N 9479E
freq. 338

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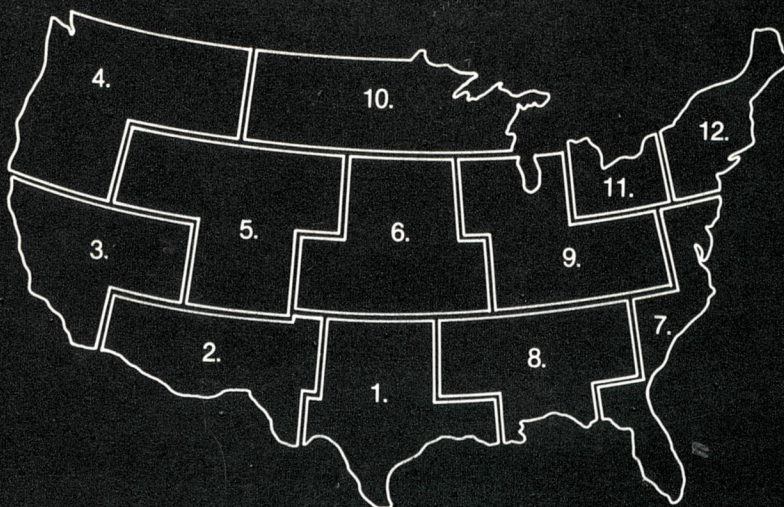
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