



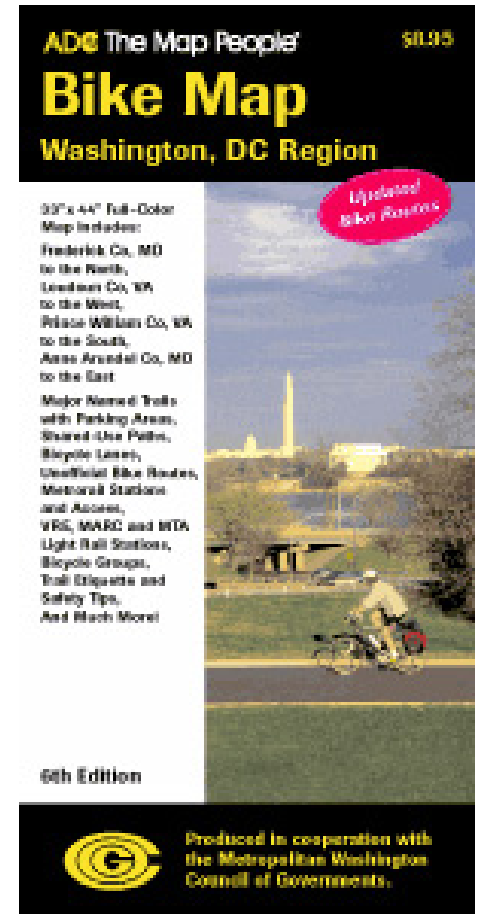
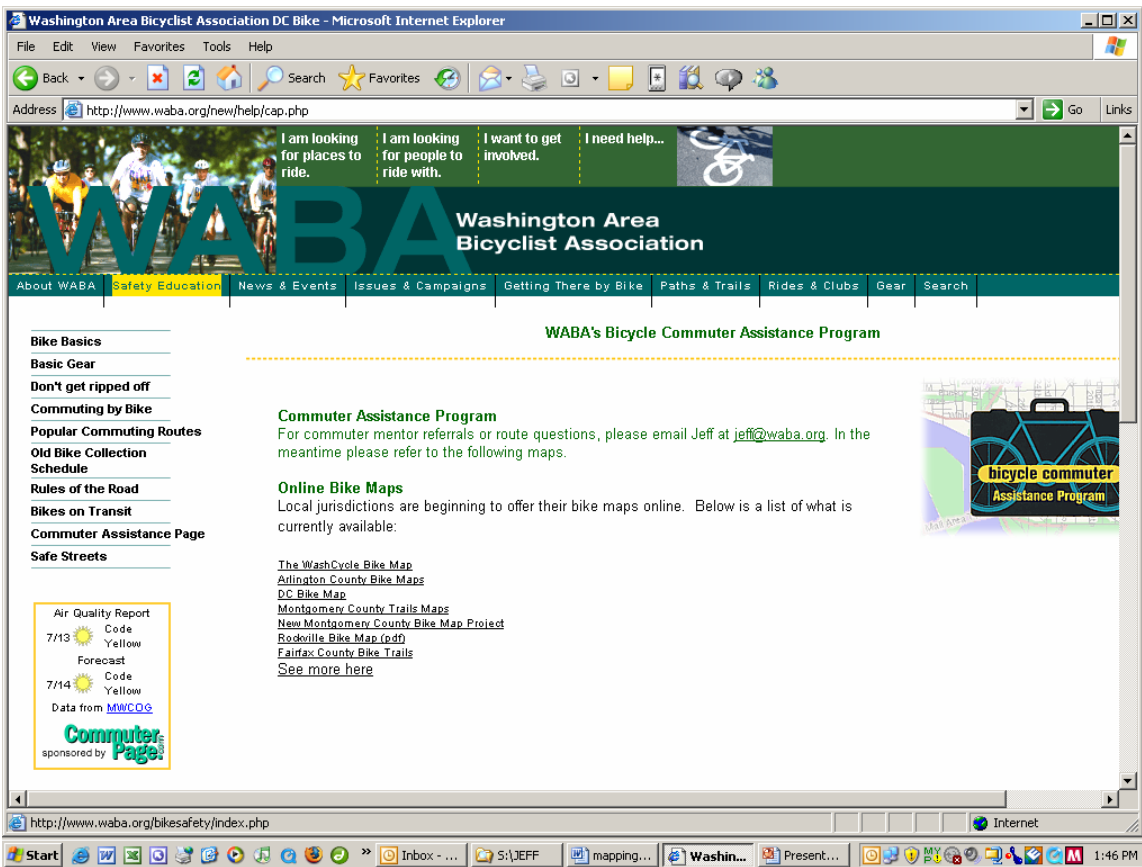
Online Bike Route Mapping

Why We Need It

- A safe and consistent route is a large stumbling block to would-be bike commuters
- To offer a system that allows users to plot Point A to Point B bike routes similar to online car mapping software (Mapquest, AAA, etc.)
- To allow for the collection of Bike to Work Day Convoys and other popular routes, as well as allowing for the informal collection of bike crash locations and other data

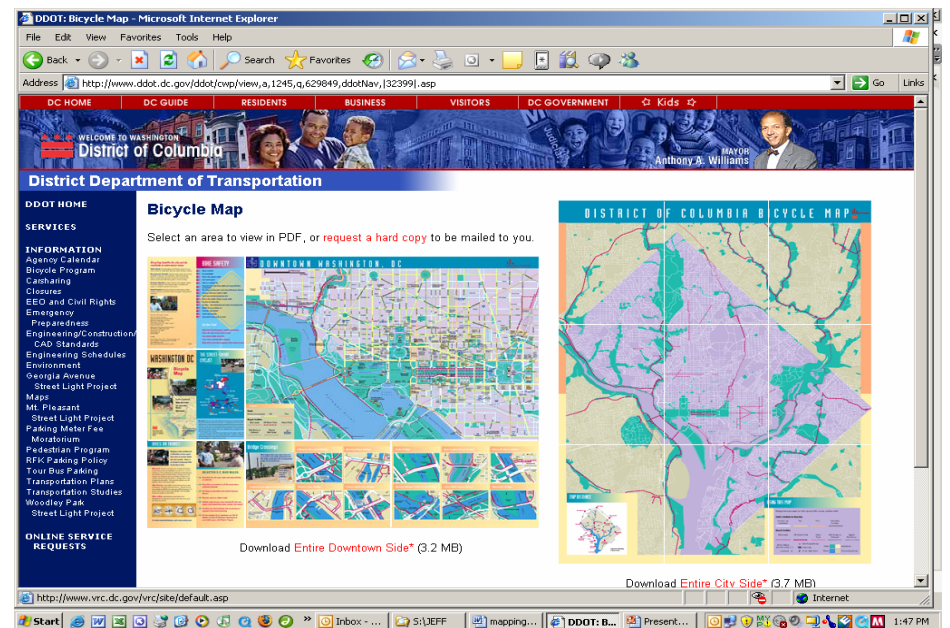
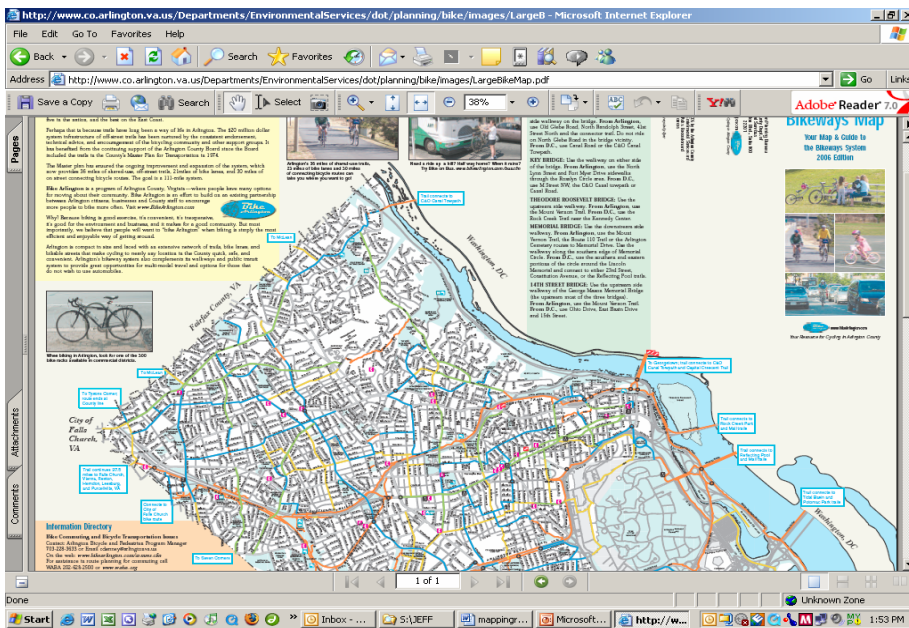
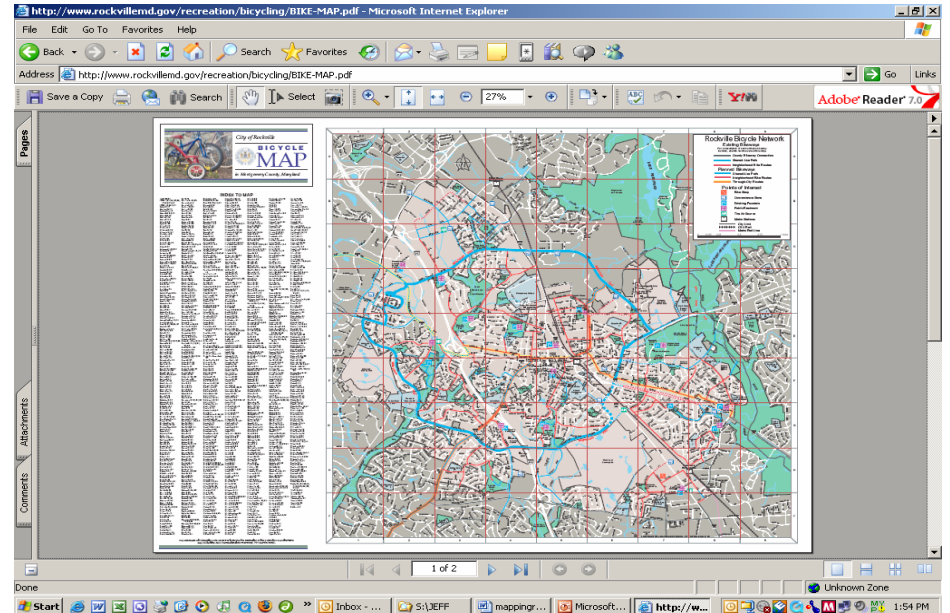
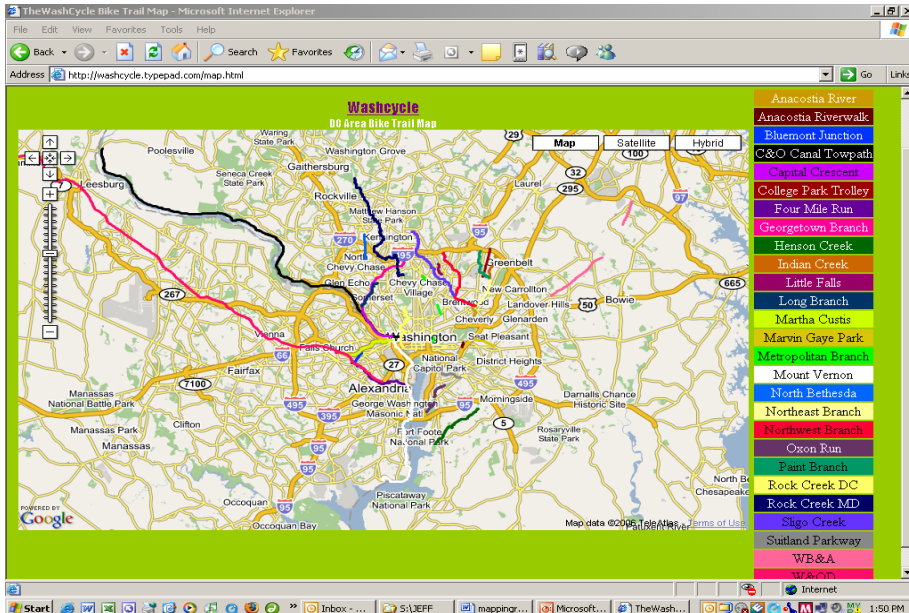
What We Have

Raw data in GIS is available through the region's municipalities along with field data collected in the making of the ADC Washington Area Bike Map



A network of “Commuter Mentors” throughout the region who can offer more detailed route consultation

Regional maps in multiple formats



What we want

- An online resource of maps, commuter routes and mentors that covers the Metro Washington Area
- Easy ability to update due to changing road conditions, new construction
- Ability to track crashes for improved reporting of trouble spots to regional bike coordinators
- A system that is first and foremost user-friendly, but is also innovative, setting a standard for other regions throughout the country

What Other Cities are Using

- **LA County**

Bikemetro.com offers ability to plug in start and finish addresses and will plot route and cue sheet for ride

- **San Francisco**

Bicycling.511.org BikeMapper offers all possible bike routes within a specified area and provides tools for user to interact with map and print.

- **Portland,OR; Milwaukee, WI; Pittsburgh, PA**

ByCycle.org/TripPlanner offers online route mapping and cue sheet generator within the interactive Google Maps platform

BikeMetro.com

BIKE ROUTES COMMUNITIES

Bike Routes

Use one of the three options to find your Route.

For additional options, please fill out the bottom section then click Get Route for your map and directions!

Lower your hill tolerance to get a flatter route, possibly at the expense of distance.

Lower your skill level to get a route with less traffic and lower speeds roads, possibly at the expense of distance.

FROM:

Enter Origin Address:

Address: 111 E. First Street
City: Los Angeles
State: CA ZIP:

TO:

Enter Destination address:

Address: 854 S Robertson B
City: los angeles
State: CA ZIP:

OR

Select Origin from Map **Select Destination from map**

OR

Origin Point of Interest:

Select County: Select a County
Select Category: Select an County First
Select Point of Interest: Select a Category First

Destination Point of Interest:

Select County: Select a County
Select Category: Select an County First
Select Point of Interest: Select a Category First

Additional Route Options: enter additional info for advanced results.

Select hill tolerance:

Low Low/Med Medium Med/High High

Select skill level:

Beginner Intermediate Advanced

Use Public transit in route:

yes no

Get Route!


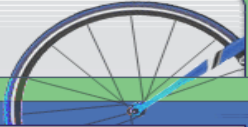
Start | Internet | 11:11 AM

Bike Routing and Mapping - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Print Mail Stop Home Add Favorites Help

Address <http://www.bikemetro.com/route/route.asp> Go Links

MAPS • INFORMATION • HOME
BIKE ROUTES • COMMUNITIES

Bike Routes

- New Route
- Edit Route
- Reverse Route

Click on the map frame to pan or click on the map to recenter. Use the Zoom bar on the right to zoom in and out.

Calorie Calculator

The average cyclist will burn **363** calories biking this route. Click [HERE](#) to get a personalized value.


Environmental Calculator

The average car will create **8.189 lbs** of CO2 driving this

FROM:
111 E 1ST ST
LOS ANGELES, CA 90012


TO:
854 S ROBERTSON BLVD
LOS ANGELES, CA 90211

Print: [Map](#) • [Directions](#) • [Both](#) Zoom To: [Start](#) • [End](#) • [Full Route](#)



©2002 GeoPerception ©1984-2001 Tele Atlas N. Am.

ZOOM



ZOOM

Level 2

Legend

Route Summary:

Bike Route Length: 8.94 miles	Total Elevation Gain/Loss: -135 feet
--------------------------------------	---

Elevation Graph:

Done
Internet
Start
Inbox ...
Micros...
S:\JEFF
mappi...
Micros...
Bike ...
11:14 AM

Bike Routing and Mapping - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <http://www.bikemetro.com/route/route.asp> Go Links


get a personalized value.


Environmental Calculator

The average car will create **8.189 lbs** of CO2 driving this route. Click [HERE](#) to get a personalized value.

Cost Calculator

The average cyclist will save approximately **\$9.17** biking this route. Click [HERE](#) to get a personalized value.



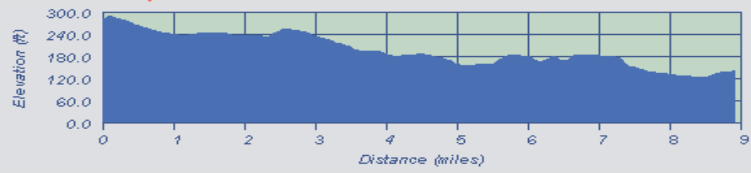


Legend

Route Summary:

Bike Route Length: 8.94 miles **Total Elevation Gain/Loss: -135 feet**

Elevation Graph:



Directions:

1.	Start out NORTH on E 1ST ST (42 ft., Slight Uphill)
2.	Continue on W 1ST ST at 42 ft.(0.09 miles, Slight Uphill)
3.	Turn Left on S SPRING ST at 0.10 miles(1.00 miles, Slight Downhill)
4.	Turn Right on S MAIN ST at 1.09 miles(0.12 miles, Slight Downhill)
5.	Turn Right on W OLYMPIC BLVD at 1.21 miles(7.58 miles, Rolling Downhill)
6.	Turn Right on S ROBERTSON BLVD at 8.79 miles(0.16 miles, Flat)

GeoPerception Inc ©2002 All Rights Reserved. [Terms of Use.](#)
 This map is informational and reference purposes only. No representation is made or warranty given as to its content. User assumes all risk of use, GeoPerception Inc. assumes no responsibility for any loss or delay resulting from such use. Map images, underlying map data and geographic information are owned and licensed by Tele Atlas North America, Inc. ©1984-2001 All Rights Reserved. Use subject to [Licence Agreement.](#)

Start Internet

Inbox ... Micros... S:\JEFF mappi... Micros... Bike ... 11:15 AM

Bicycling.511.org BikeMapper

511.org - Bicycling - Bay Area Bicycle Maps. Ver 2.3 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <http://bikemapper.mtc.ca.gov/BikeMapper/BikeRouteMap> Go Links

511 BikeMapperSM

Bay Area Bicycle Maps »

Bikes on Transit

Bicycle Parking »

Bikes on Bridges

Bike Buddy Matching

Bicycle Safety »

Commuting by Bike

Selecting a Bike

Bicycle Organizations

Bike to Work Day

SEARCH BICYCLING:

Go

[Suggestions](#)
[Bicycling Site Directory](#)

Bay Area Bicycle Maps

511 BikeMapperSM

Your destination location is not recognized. Please try a nearby street intersection or try finding your starting location on a map.

[What is the 511 BikeMapperSM?](#)

Enter the city name or zip code

Go

- OR - Select county from list

Alameda

- OR - Specify origin and/or destination of your bike trip

1. Where are you starting your bike trip?

Enter the starting point address, intersection or landmark. (e.g. 100 Market St, or 14th St. and Broadway, or Ferry Building)

City or ZIP (optional for landmark)


2. Where are you going? (optional)

Enter the destination address, intersection or landmark.

City or ZIP (optional for landmark)

Notice: Origin/Destination Routing Functionality

Related Information



[Go directly to the interactive map to view Bay Area Bikeways](#)

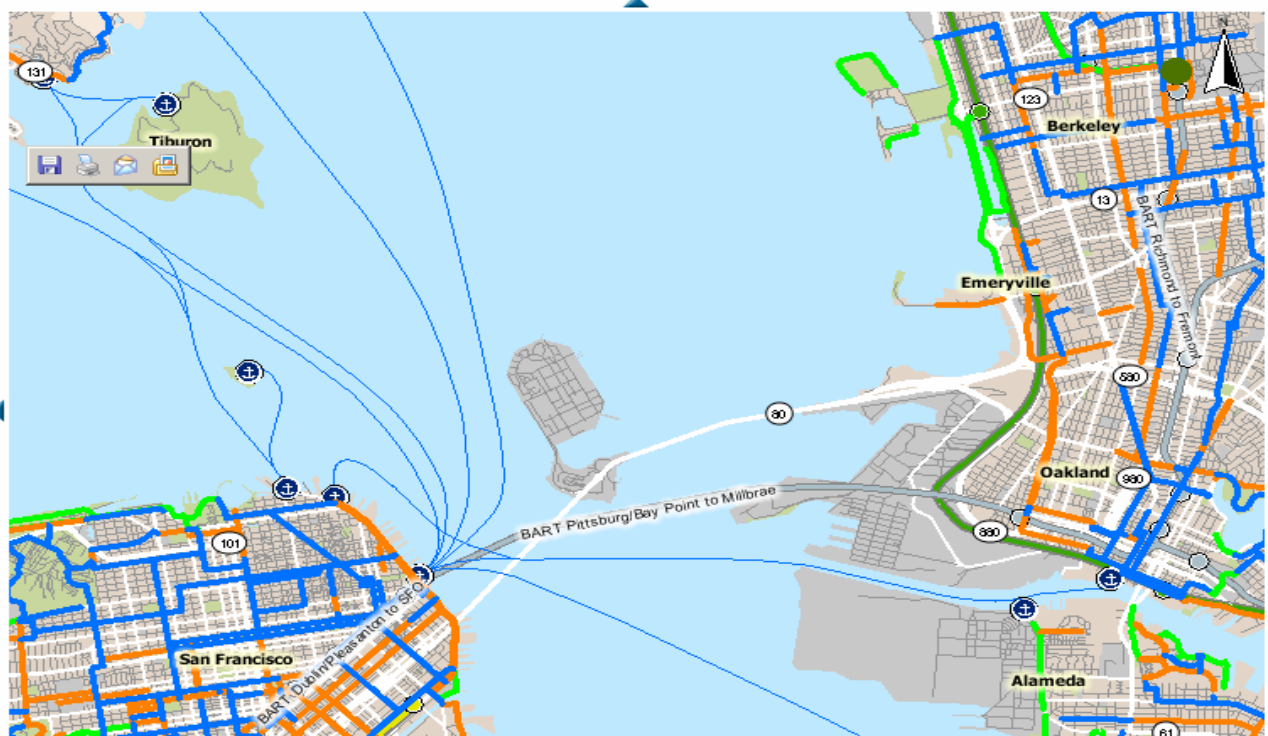
[Help using the 511 BikeMapperSM](#)

[Download the bikeways data in ESRI shape file format for use in GIS software](#)

Start | Internet | 4:42 PM

Map Tools

Printable version Show Slope Show Inset Map
Zoom to: Full Extent Go
Zoom Out - Zoom In +



511 BikeMapperSM

[Bicycling Home](#)
[511 BikeMapper Home](#)
[511 BikeMapper Help](#)
[Map Help](#)

Center Map Help:
this tool re-centers the map. Single-click the location on the map to become the center of a new map.

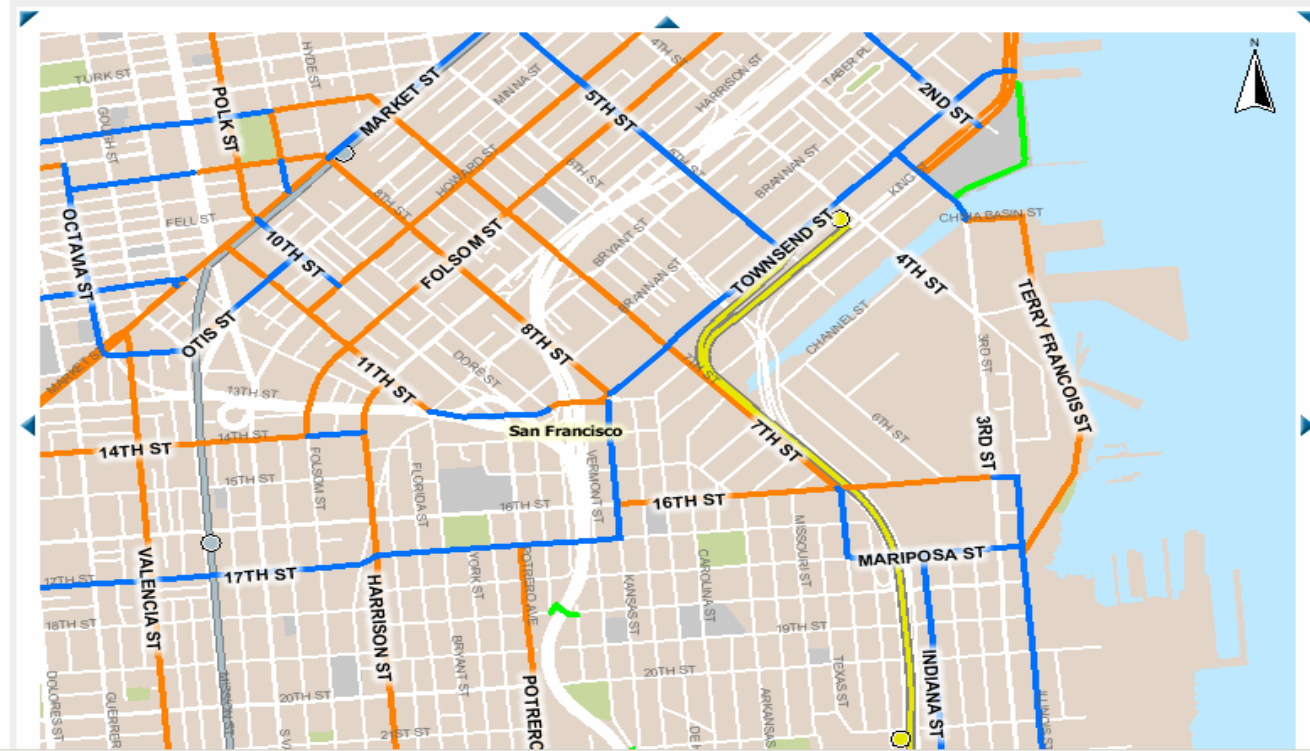
Legend

- Off-Street Shared-Use Path (Class I)
- Bike Lane (Class II)
- On-Street Bike Route (Class III)

Transit Stations

- ACE Station
- Capitol Station
- BART Station
- CALTrain Station
- VTA Station
- Ferry Terminal

Map Tools Zoom to: Full Extent Go
[Printable version](#) [Show Slope](#) [Show Inset Map](#) Zoom Out - Zoom In +



511 BikeMapperSM
[Bicycling Home](#)
[511 BikeMapper Home](#)
[511 BikeMapper Help](#)
[Map Help](#)

Center Map Help:
this tool re-centers the map. Single-click the location on the map to become the center of a new map.

- Legend**
- Off-Street Shared-Use Path (Class I)
 - Bike Lane (Class II)
 - On-Street Bike Route (Class III)

- Transit Stations**
- ACE Station
 - Capitol Station
 - BART Station
 - CALTrain Station
 - VTA Station
 - Ferry Terminal

ByCycle.org/TripPlanner

byCycle - Bicycle Trip Planner - Portland, OR - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://tripplanner.bycycle.org/?region=Portland,OR> Go Links

byCycle.org Bicycle Trip Planner

Portland, OR

[About](#) · [Discuss](#) · [Feedback](#) · [Help/Info](#) · [Link here](#) · [Support this project](#)

[Find address at center](#) · [Clear map](#) · [Show bookmark](#)

Map Satellite Hybrid

Find an Address Go!

Find a Route

1914 SE Ankeny Street

1414 S.W. 6th Avenue

Normal Go!

The bicycle Trip Planner is under active development. Please [contact us](#) with any problems, comments, questions, or suggestions.

If you find this site useful or would like help it improve, please consider [donating](#). Any amount helps.

Disclaimer: As you are riding, please keep in mind that you don't *have* to follow the suggested route. *It may not be safe at any given point.* If you see what looks like an unsafe or undesirable stretch in the suggested route, you can decide to walk, ride on the sidewalk, or go a different way.

Users should independently verify all information presented here. This service is provided **AS IS** with **NO WARRANTY** of any kind.

© 2006 [byCycle.org](#)
Last modified: July 04, 2006

Hosted at [aPlus.net](#) · [Portland bike news @ BikePortland.org](#)

Powered by Google

Map data ©2006 TeleAtlas - [Terms of Use](#)

Ads by Goooooogle

Comfort Bicycle Seats

From \$29.99 For our Comfort Gels! Get Back On That Bike Today [globalbikesonline.com](#)

Custom Trip Planner

Make your own tour, on-line! Expert advice. Quick, low prices. [www.tripthink.com](#)

Terry Bicycle Saddles

World's Most Comfortable Saddles. Handmade in Italy. Ride in Comfort! [www.TerryBicycles.com](#)

Painless Bike Seats

Don't suffer anymore - get a better ride with a comfortable bike seat.

Done

Start

Inbox - ... S:\JEFF mappingr... Microsoft... byCycle - ... Internet

2:23 PM

byCycle.org Bicycle Trip Planner

Portland, OR

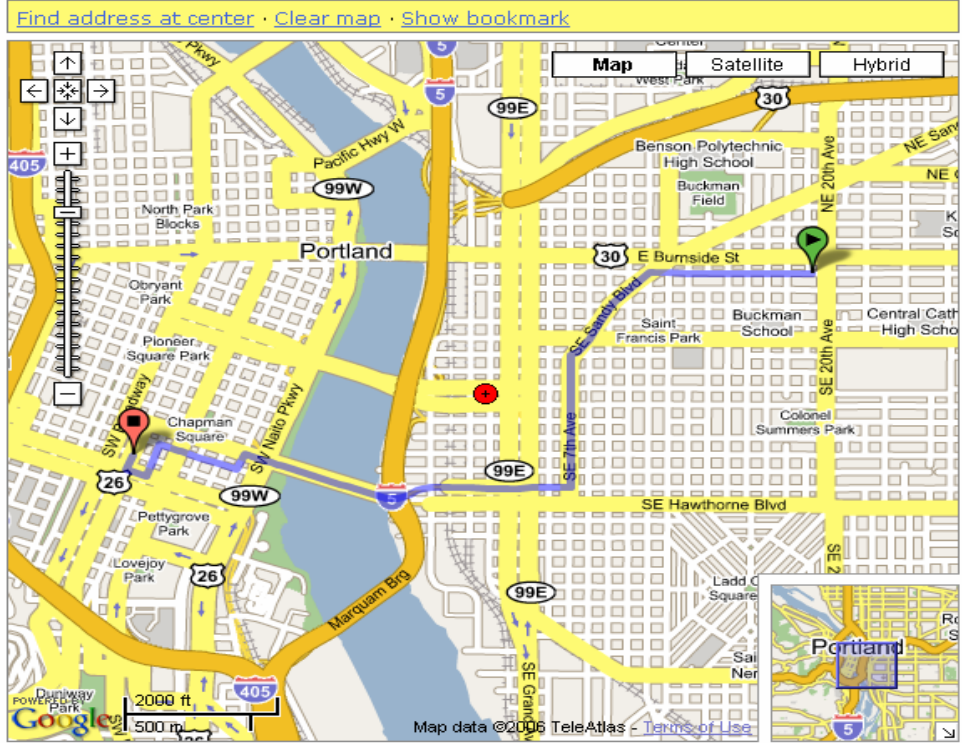
[About](#) · [Discuss](#) · [Feedback](#) · [Help/Info](#) · [Link here](#) · [Support this project](#)

Find an Address
 Go!

Find a Route

 Normal Go!

- [Reverse Directions](#)
- | | |
|-----------------|---|
| Start | 1914 SE Ankeny St
Portland, OR 97214 |
| End | 1414 SW 6th Ave
Portland, OR 97201 |
| Distance | 2.40 miles |
- Go **west** on **SE Ankeny St** toward SE 19th Ave -- 0.40mi [i]
 - Turn **left** onto **SE Sandy Blvd** toward SE 10th Ave -- 0.32mi [b]
 - Turn **left** onto **SE 7th Ave** toward SE Alder St -- 0.39mi [b]
 - Turn **right** onto **SE Madison St** toward SE 6th Ave -- 0.10mi [b]
 - SE Madison St **becomes** SE Madison St-Hawthorne Brg Ramp toward SE Grand Ave-Madison St Ramp -- 0.35mi [b, t]
 - Turn **right** onto **Hawthorne Brg** toward ? -- 0.33mi [t]
 - Hawthorne Brg **becomes** SW Madison St toward SW 1st Ave -- 0.05mi [b]
 - Turn **left** onto **SW 1st Ave** toward SW Jefferson St -- 0.05mi [h]



Ads by Goooooogle

Comfort Bicycle Seats
 From \$29.99 For our Comfort Gels! Get Back On That Bike Today
globalbikesonline.com

Custom Trip Planner
 Make your own tour, on-line! Expert advice. Quick, low prices.
www.tripthink.com

Terry Bicycle Saddles
 World's Most Comfortable Saddles. Handmade in Italy. Ride in Comfort!
www.TerryBicycles.com

Painless Bike Seats
 Don't suffer anymore - get a better ride with a comfortable bike seat.

Hosted at aPlus.net · Portland bike news @ BikePortland.org

byCycle.org Bicycle Trip Planner

Portland, OR

[About](#) · [Discuss](#) · [Feedback](#) · [Help/Info](#) · [Link here](#) · [Support this project](#)

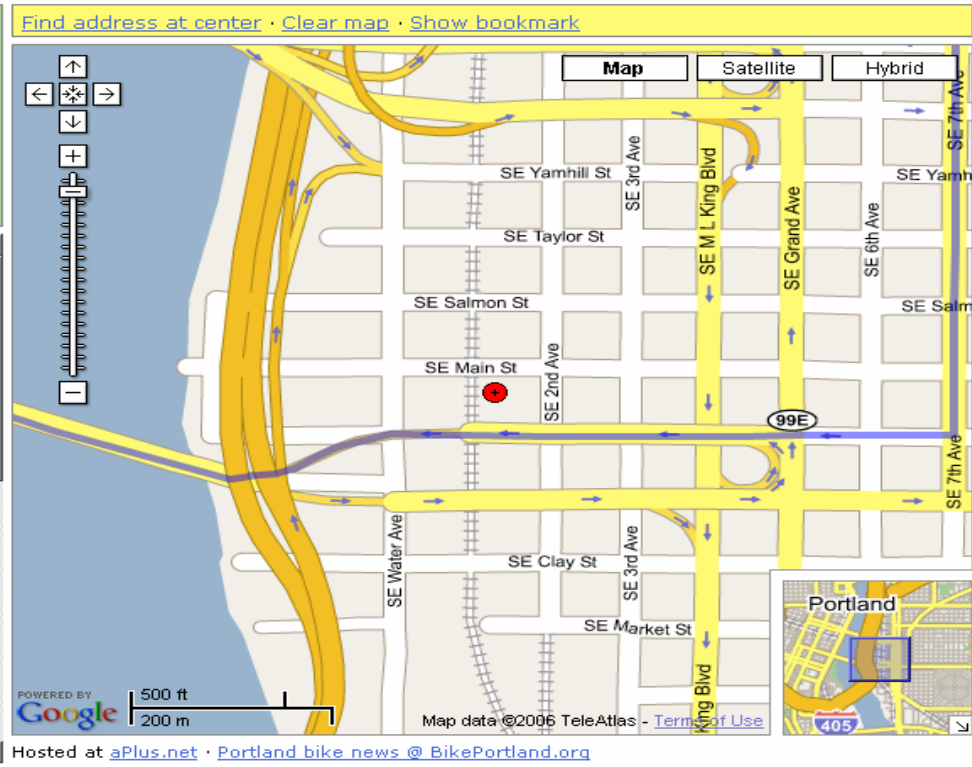
Find an Address

Go!

Find a Route

Normal
Go!

- [Reverse Directions](#)
- | | |
|-----------------|---|
| Start | 1914 SE Ankeny St
Portland, OR 97214 |
| End | 1414 SW 6th Ave
Portland, OR 97201 |
| Distance | 2.40 miles |
1. Go **west** on **SE Ankeny St** toward SE 19th Ave -- 0.40mi [l]
 2. Turn **left** onto **SE Sandy Blvd** toward SE 10th Ave -- 0.32mi [b]
 3. Turn **left** onto **SE 7th Ave** toward SE Alder St -- 0.39mi [b]
 4. Turn **right** onto **SE Madison St** toward SE 6th Ave -- 0.10mi [b]
 5. SE Madison St **becomes** SE Madison St-Hawthorne Brg Ramp toward SE Grand Ave-Madison St Ramp -- 0.35mi [b, t]
 6. Turn **right** onto **Hawthorne Brg** toward ? -- 0.33mi [t]
 7. Hawthorne Brg **becomes** SW Madison St toward SW 1st Ave -- 0.05mi [b]
 8. Turn **left** onto **SW 1st Ave** toward SW Jefferson St -- 0.05mi [h]



Ads by Goooooogle

Comfort Bicycle Seats
From \$29.99 For our Comfort Gels! Get Back On That Bike Today
globalbikesonline.com

Custom Trip Planner
Make your own tour, on-line! Expert advice. Quick, low prices.
www.tripthink.com

Terry Bicycle Saddles
World's Most Comfortable Saddles. Handmade in Italy. Ride in Comfort!
www.TerryBicycles.com

Painless Bike Seats
Don't suffer anymore - get a better ride with a comfortable bike seat.

byCycle.org Bicycle Trip Planner

Portland, OR

[About](#) · [Discuss](#) · [Feedback](#) · [Help/Info](#) · [Link here](#) · [Support this project](#)

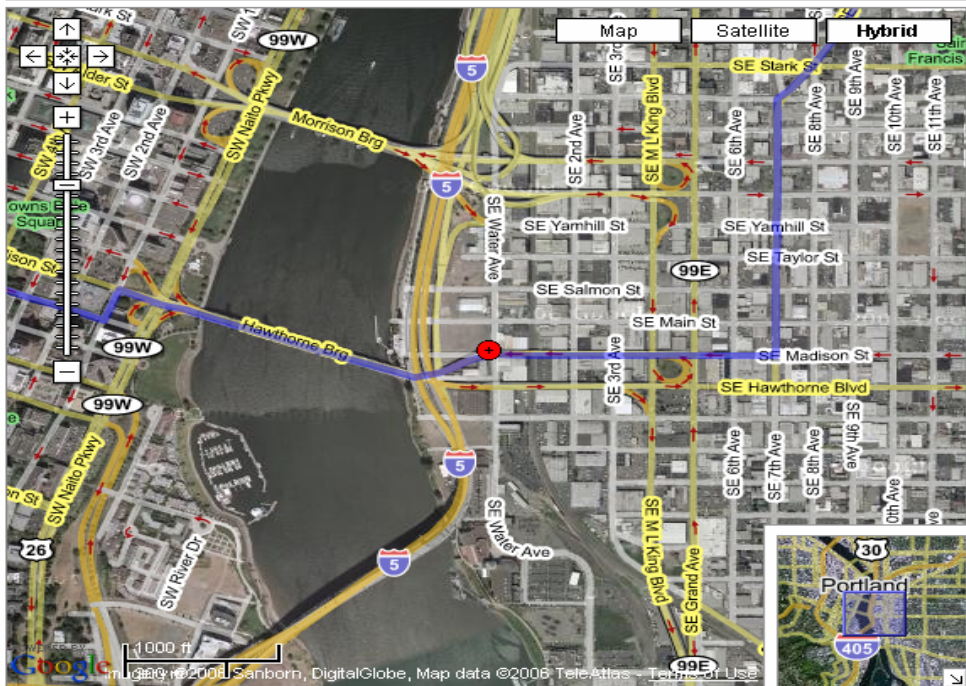
Find an Address

Go!

Find a Route

Normal Go!

[Find address at center](#) · [Clear map](#) · [Show bookmark](#)



4. Turn **right** onto **SE Madison St** toward SE 6th Ave -- 0.10mi [b]
5. SE Madison St **becomes** SE Madison St-Hawthorne Brg Ramp toward SE Grand Ave-Madison St Ramp -- 0.35mi [b, t]
6. Turn **right** onto **Hawthorne Brg** toward ? -- 0.33mi [t]
7. Hawthorne Brg **becomes** SW Madison St toward SW 1st Ave -- 0.05mi [b]
8. Turn **left** onto **SW 1st Ave** toward SW Jefferson St -- 0.05mi [h]
9. Turn **right** onto **SW Jefferson St** toward SW 2nd Ave -- 0.21mi [b]
10. Turn **left** onto **SW 5th Ave** toward SW Columbia St -- 0.10mi
11. Turn **right** onto **SW Clay St** toward SW 6th Ave -- 0.05mi
12. Turn **right** onto **SW 6th Ave** toward 1414 SW 6th Ave -- 0.04mi [h]
13. **End at 1414 SW 6th Ave**

If you find this site useful or would like help it improve, please consider [donating](#). Any amount helps.

Hosted at [aPlus.net](#) · [Portland bike news @ BikePortland.org](#)

Ads by Google

Comfort Bicycle Seats
From \$29.99 For our Comfort Gels! Get Back On That Bike Today
[globalbikesonline.com](#)

Custom Trip Planner
Make your own tour, on-line! Expert advice. Quick, low prices.
[www.tripthink.com](#)

Terry Bicycle Saddles
World's Most Comfortable Saddles. Handmade in Italy. Ride in Comfort!
[www.TerryBicycles.com](#)

Painless Bike Seats
Don't suffer anymore - get a better ride with a comfortable bike seat.

byCycle - Bicycle Trip Planner - Portland, OR - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://tripplanner.bycycle.org/?region=Portland,OR> Go Links

byCycle.org

Bicycle Trip Planner

Portland, OR

[About](#) · [Discuss](#) · [Feedback](#) · [Help/Info](#) · [Link here](#) · [Support this project](#)

[Find address at center](#) · [Clear map](#) · [Show bookmark](#)

Find an Address

Find a Route

Normal

4. Turn **right** onto **SE Madison St** toward SE 6th Ave -- 0.10mi [b]
5. SE Madison St **becomes** SE Madison St-Hawthorne Brg Ramp toward SE Grand Ave-Madison St Ramp -- 0.35mi [b, t]
6. Turn **right** onto **Hawthorne Brg** toward ? -- 0.33mi [t]
7. Hawthorne Brg **becomes** SW Madison St toward SW 1st Ave -- 0.05mi [b]
8. Turn **left** onto **SW 1st Ave** toward SW Jefferson St -- 0.05mi [h]
9. Turn **right** onto **SW Jefferson St** toward SW 2nd Ave -- 0.21mi [b]
10. Turn **left** onto **SW 5th Ave** toward SW Columbia St -- 0.10mi
11. Turn **right** onto **SW Clay St** toward SW 6th Ave -- 0.05mi
12. Turn **right** onto **SW 6th Ave** toward 1414 SW 6th Ave -- 0.04mi [h]
13. **End at 1414 SW 6th Ave**

If you find this site useful or would like help it improve, please consider [donating](#). Any amount helps.

Map Satellite Hybrid

Google 100 ft 50 m Imagery ©2006 Sanborn, Map data ©2006 TeleAtlas - Terms of Use

Hosted at [aPlus.net](#) · [Portland bike news @ BikePortland.org](#)

Ads by Goooooogle

Comfort Bicycle Seats
From \$29.99 For our Comfort Gels! Get Back On That Bike Today
globalbikesonline.com

Custom Trip Planner
Make your own tour, on-line! Expert advice. Quick, low prices.
www.triphink.com

Terry Bicycle Saddles
World's Most Comfortable Saddles. Handmade in Italy. Ride in Comfort!
www.TerryBicycles.com

Painless Bike Seats
Don't suffer anymore - get a better ride with a comfortable bike seat.

Start | Internet | 2:28 PM

Other potential uses of Google Map platform

Listings of popular commuter routes

Commuter Routes

These routes are suggested by Bicycle Coalition Members and are displayed on [Google Maps](#) using the [GMAPS Pedometer](#). Also consult the [Philadelphia Bike Map](#) or the Greater Philadelphia Regional Bike Map and/or Google Maps.

Routes are organized by point of origin

Western Suburbs

- [Narberth to Center City](#)
- [Wynnewood to Independence Mall](#)
- [Upper Providence to the Wharton School](#)
- [Swarthmore to Center City](#)
- [Rose Tree Park to Moylan Rose Valley R3 Rail Station](#)
- [Upper Darby to Center City](#)
- [Upper Darby to Media](#)

West Philadelphia

- [46th St to University City Rail Station](#) (R1, R2, R3)
- [Clark Park to 30th St. Station](#)
- [University City to One Parkway via Locust Walk](#)
(Note: no bikes on Locust Walk 8:30 - 5:30 weekdays)
- [Powelton to Thomas Jefferson Hospital](#)
- [Clark Park to Temple University](#) (Via [Center City](#), Via Schuylk)

Northeast Philadelphia

- [Holme Circle to Palmyra RiverLINE Rail Station](#)
- [Academy Gardens to the Torresdale R7 Train Station](#)
- [Holme Circle to Jenkintown](#)
- [Bridesburg to Center City](#)
- [Rittenhouse Square to Fox Chase Cancer Center](#)

Gmaps Pedometer

Recording...
Undo last point

english metric

Total Distance: 10.0359 miles
Last Leg: 0.282 miles

Turn off mile markers
Turn on calorie counter
Elevation: off [small](#) [large](#)
[Complete](#) there and back route

[Save route](#)
[Clear points and start over](#)
[Print map](#)
[Export as GPX](#) (external link)

[Message Board \(Mileposts\)](#) | [FAQ](#) | [About](#) | [Usage Instructions](#) | [Acknowledgements](#) | [Change History](#) |
(All links open in a new window)

See the [Change History](#) for most recent updates

Jump to: [] zoom: 12 go [more options](#)

Map Satellite Hybrid

2 mi 2 km

Powered by Google

Free Garmin GPS/Pedometer
Track Your Exercise With A Personal Training System. Survey Now!
Sports-Offer.com

Free Garmin GPS System
Track Your Exercise With A New Personal Training System. Act Now!
OnlineRewardCenter.com

Marathon Running Singles
View Photo Profiles. Join for Free. Lo Singles into Running.
www.Fitness-Singles.com

WABA's Recommendation

- **ByCycle.org Trip Planner**

Cost effective- \$500-\$2000 initial set-up; \$500-\$1000 monthly maintenance

Uses popular interface- Google Maps is already widely used for car trip mapping, pedometer, Google Earth and allows for plotting of information beyond routes

Other cities are already using it- with Portland, Milwaukee and Pittsburgh already using Trip Planner, with other cities soon to be added, the system is easily recognizable and navigated by new residents to the region along with our many visitors