New Partners for Smart Growth

Tools to Identify People and Environmental Assets

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What is a greenprint?

Strategic conservation plan or assessment tool that reveals the economic and social benefits that parks, open space, and working lands provide communities.
The Bay Area
Problem

• Conservation is not considered early enough in the planning and project development process

• Confusing access to data

• Multi-benefit and landscape-scale planning is uncommon yet desired
Solution: Bay Area Greenprint

• Incorporate natural resource conservation **early in planning processes**

• Supply planners with a **one-stop shop** for natural resource data and assessments

• Raise awareness about **nature** and its benefits
Goal of the Greenprint

Growth that balances nature, agriculture and the needs of a growing region
American Farmland Trust
Reaching our Goal

- Get natural resource data into the right hands early on
- Revolutionize thinking and build capacity
- Keep the data fresh, useful, linked
- Cited and referenced
- Bookmarked on every planner’s browser
Who is using the greenprint?
How this Greenprint is unique
“Wall-to-wall”
“Living” Data Sources
Nature’s Values and Benefits

- Food Production
- Carbon Storage
- Outdoor Recreation
- Water Yield
- Water Quality
- Water Hazard Reduction
- Compensatory Mitigation
- Prioritized Habitats
- Habitat Connectivity
How can I access information in the Greenprint?

Natural Resource Dashboard

How do Bay Area Counties Stack Up?

Webmap & Data Download

Multi-benefit Reporting

Methods & Glossary

Did you know?

Did you know that crops in this area are worth as much as $09,000?

Data: Bay Area counties were compared by land use and summarized by MPA's agricultural types.

Method: County agricultural assessment crop types were cross-referenced to the agriculture California 2011 to 15 dataset. Relationship (CRP) types in 2015-2016 according to the CVF type description. These cross-reference tables are based in this table. The production value per acre was then divided across crop types associated with each CRP. Each agricultural type within each county. If a CRP type in a county, the production value was calculated for that CRP type. Value per acre was then converted to total dollar value per 30m grid (section 1).

Production value was then summed across the area of interest.

How will climate change impact food production?

Trends in food production are changing places.

A warmer and/or drier climate may require additional irrigation to maintain the same crop in the same location.

Metric: Acre feet of additional irrigation needed to offset climate change.

Data: Delphi Climate Water - Delphi (CRP-15b) 39,000 locations in California is expected to increase. CRP quantifies evapotranspiration climate exceeding available surface water and is measured in acre feet. Projected increases in CRP in agricultural areas will both the additional water that may be needed at a given location to maintain status quo in terms of agricultural productivity.

Method: Global Climate Model (GCM) (project future climate conditions based on greenhouse gas concentrations and emissions).
Does this matter?

How much prime farmland? 68,000 acres

Is that a lot? More than half of the county’s prime farmland

Is farmland already protected? Only 2.5% of the county’s prime farmland is protected
Did you know?

There are observations of rare or protected species in your area of interest.

The value of crops in this area are worth as much as $550,000.

The groundwater recharge potential in this area is equivalent to the annual water use for 36,368 households.

Your area is part of a municipal drinking water supply watershed.
How will climate change impact nature’s values and benefits?

**Threat**

How is each resource threatened by climate change?

**Opportunity**

What opportunities exist to protect these resources given a changing climate?
What policies protect nature’s values and benefits?
Decision Makers:
- Planners
- Infrastructure agencies
- Conservationists
- Advocates
- Developers

Current Data:
- Conservation Lands Network
- Regional Advance Mitigation
- Greenbelt Policy

Impact:
- New land acquisition
- Restored waterway
- Litigation-free development

Uses:
- Priority Conservation Areas
- General plan updates
- Scenario planning
- EIRs

Bay Area Greenprint

“Life Cycle”
Stay in touch:
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BayAreaGreenprint.org

In appreciation: