

WIDE AREA





**A comparison of  
flora in San Francisco's  
fragmented natural areas**

- San Bruno Mountain to Golden Gate
- Biodiversity hotspot
- Unique combination of soils, climate
- Rare and endemic plants and animals



## **The Franciscan Bioregion**

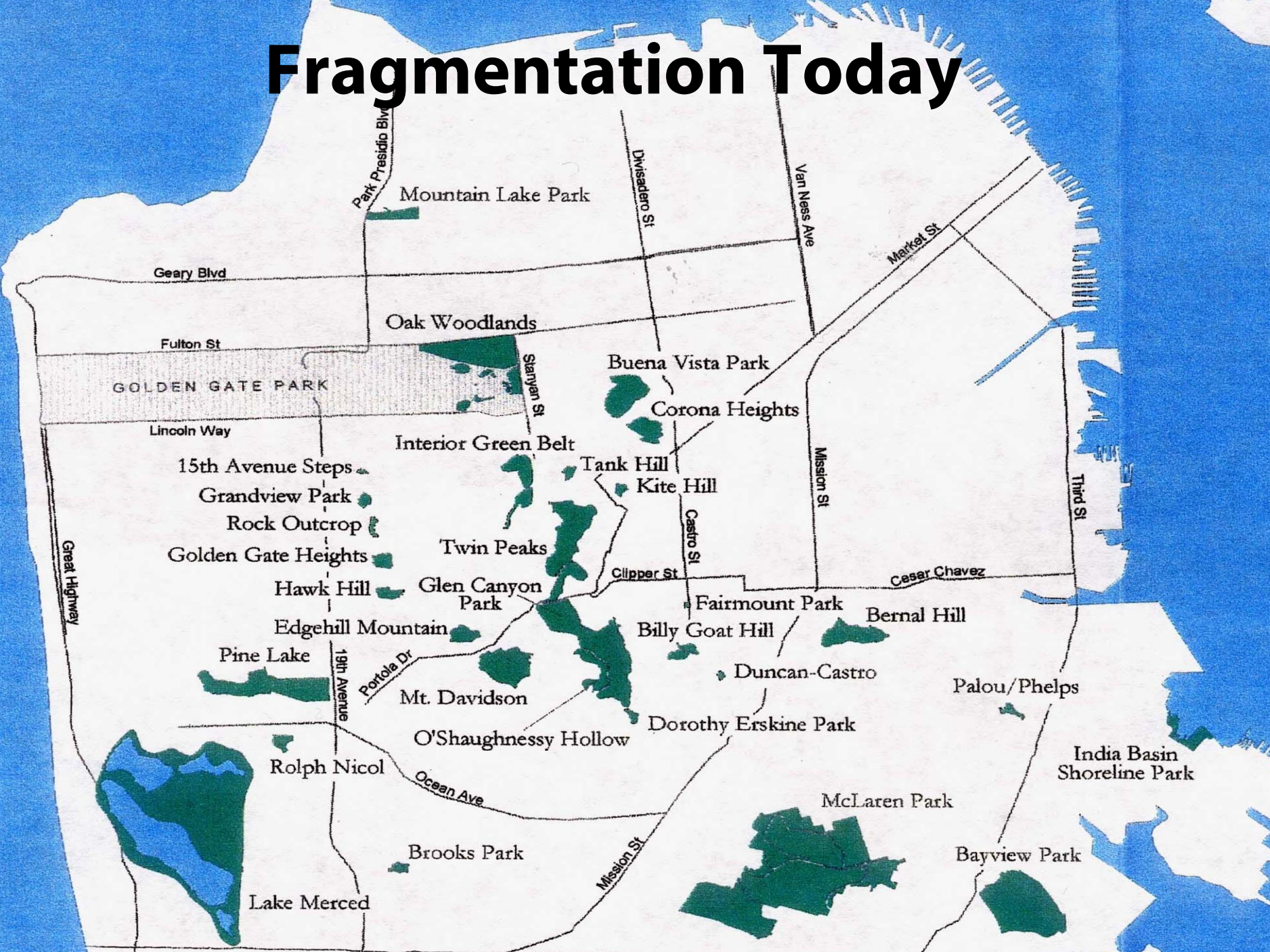


**Bayview Hill Circa 1910**



**Bayview Hill 2004**

# Fragmentation Today



# Natural Areas Facts

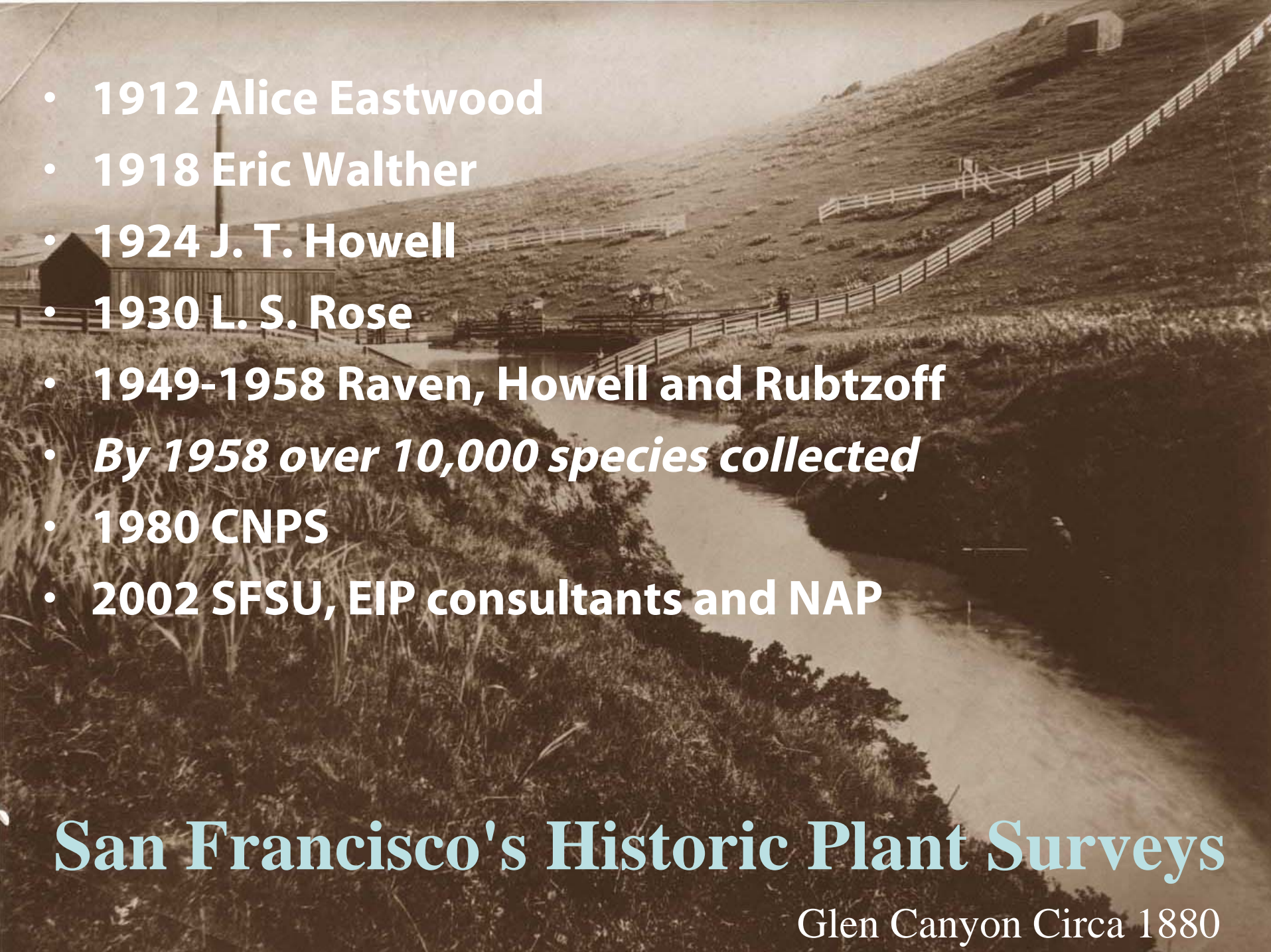
- Over 30 parks
- Approximately 1,000 acres (range: <1 acre to over 600 acres)
- Over 20 sensitive species
- Over 1,000 plant species (about 311 local natives)
- Over 550 resident and migratory vertebrate species (reptiles, amphibians, birds, mammals)

# Current Native Vegetation Communities in San Francisco

- Grasslands
- Coastal Scrub and Dunes
- Lakes (lacustrine)
- Oak Woodlands
- Riparian and Fresh Water Marshes
- Rock Outcrops
- Salt Marshes

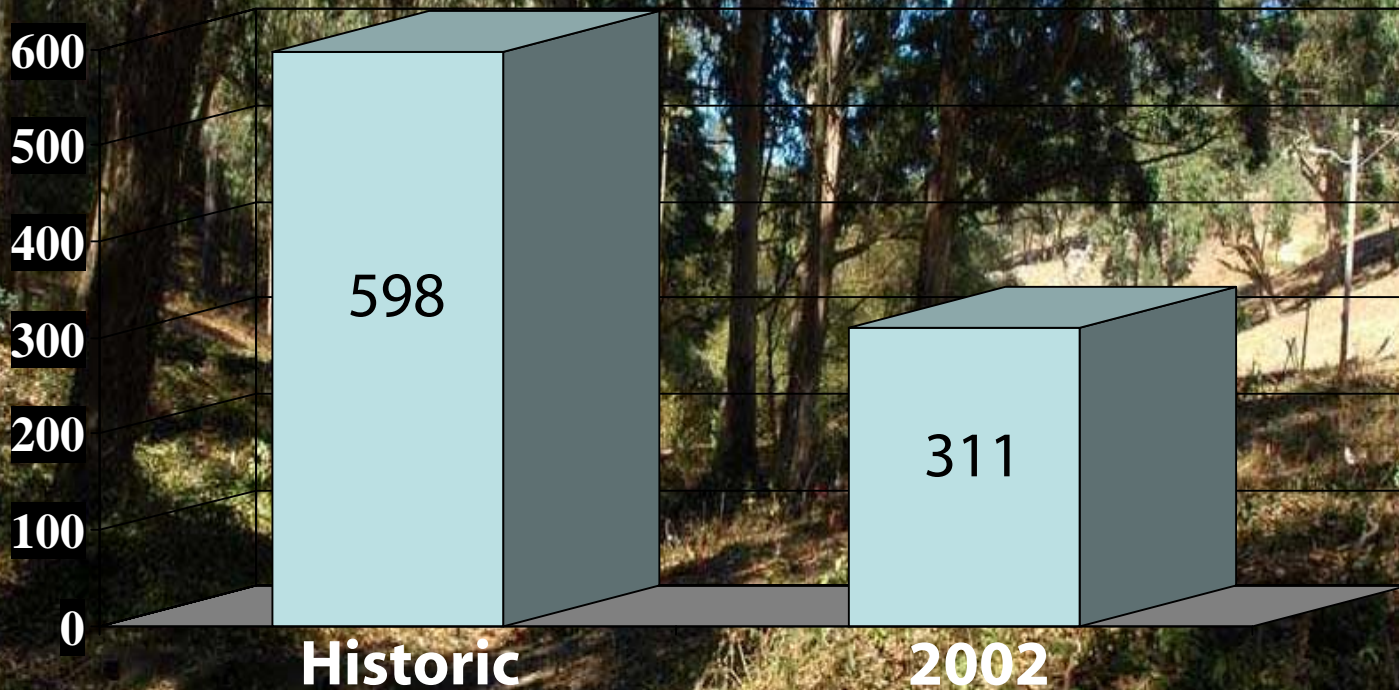




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- 1912 Alice Eastwood
  - 1918 Eric Walther
  - 1924 J. T. Howell
  - 1930 L. S. Rose
  - 1949-1958 Raven, Howell and Rubtzoff
  - *By 1958 over 10,000 species collected*
  - 1980 CNPS
  - 2002 SFSU, EIP consultants and NAP

# San Francisco's Historic Plant Surveys

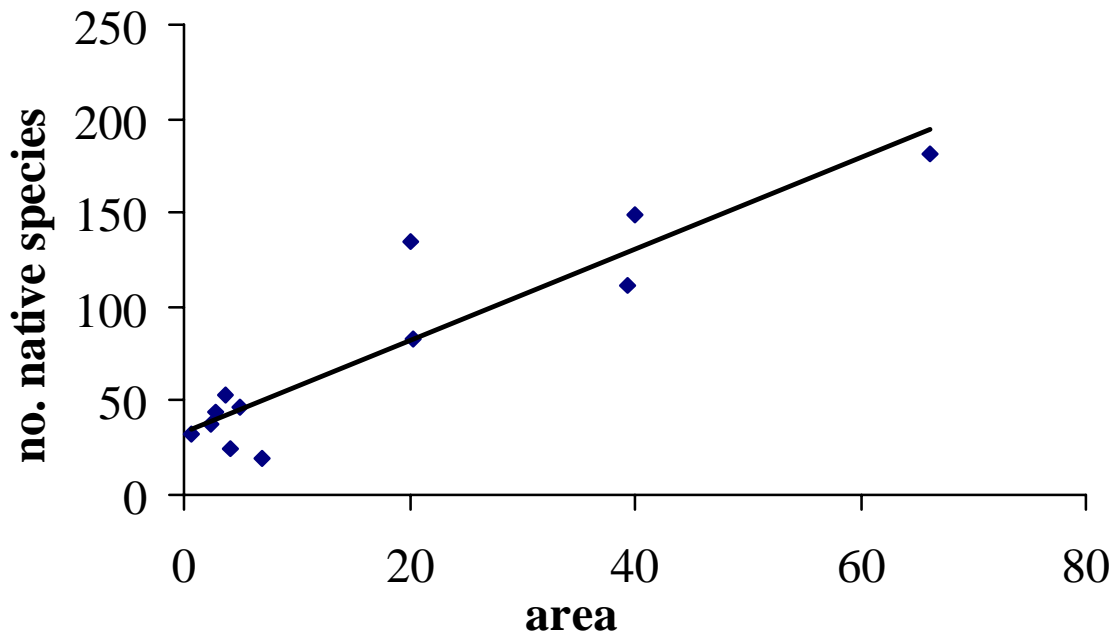
Glen Canyon Circa 1880



# San Francisco's Native Plant Diversity

Glen Canyon 2004

# Species / Area Relationships in San Francisco Natural Areas



## 3 Remnants of History

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graph TD; A[3 Remnants of History] --- B[Twin Peaks]; A --- C[Tank Hill]; A --- D[Kite Hill];
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### Twin Peaks

48.63 Acres

121 Native Plant Species

### Tank Hill

2.84 Acres

49 Native Plant Species

### Kite Hill

2.46 Acres

33 Native Plant Species



Park Presidio Blvd

Mountain Lake Park

Divisadero St

Van Ness Ave

Market St

Geary Blvd

Oak Woodlands

Fulton St

GOLDEN GATE PARK

Stanvan St

Buena Vista Park

Corona Heights

Lincoln Way

Interior Green Belt

Tank Hill

Kite Hill

15th Avenue Steps

Grandview Park

Rock Outcrop

Golden Gate Heights

Twin Peaks

Hawk Hill

Glen Canyon Park

Clipper St

Fairmount Park

Bernal Hill

Edgehill Mountain

Billy Goat Hill

Pine Lake

19th Avenue

Portola Dr

Mt. Davidson

Duncan-Castro

Palou/Phelps

O'Shaughnessy Hollow

Dorothy Erskine Park

Rolph Nicol

Ocean Ave

India Basin Shoreline Park

Brooks Park

McLaren Park

Bayview Park

Lake Merced

Mission St

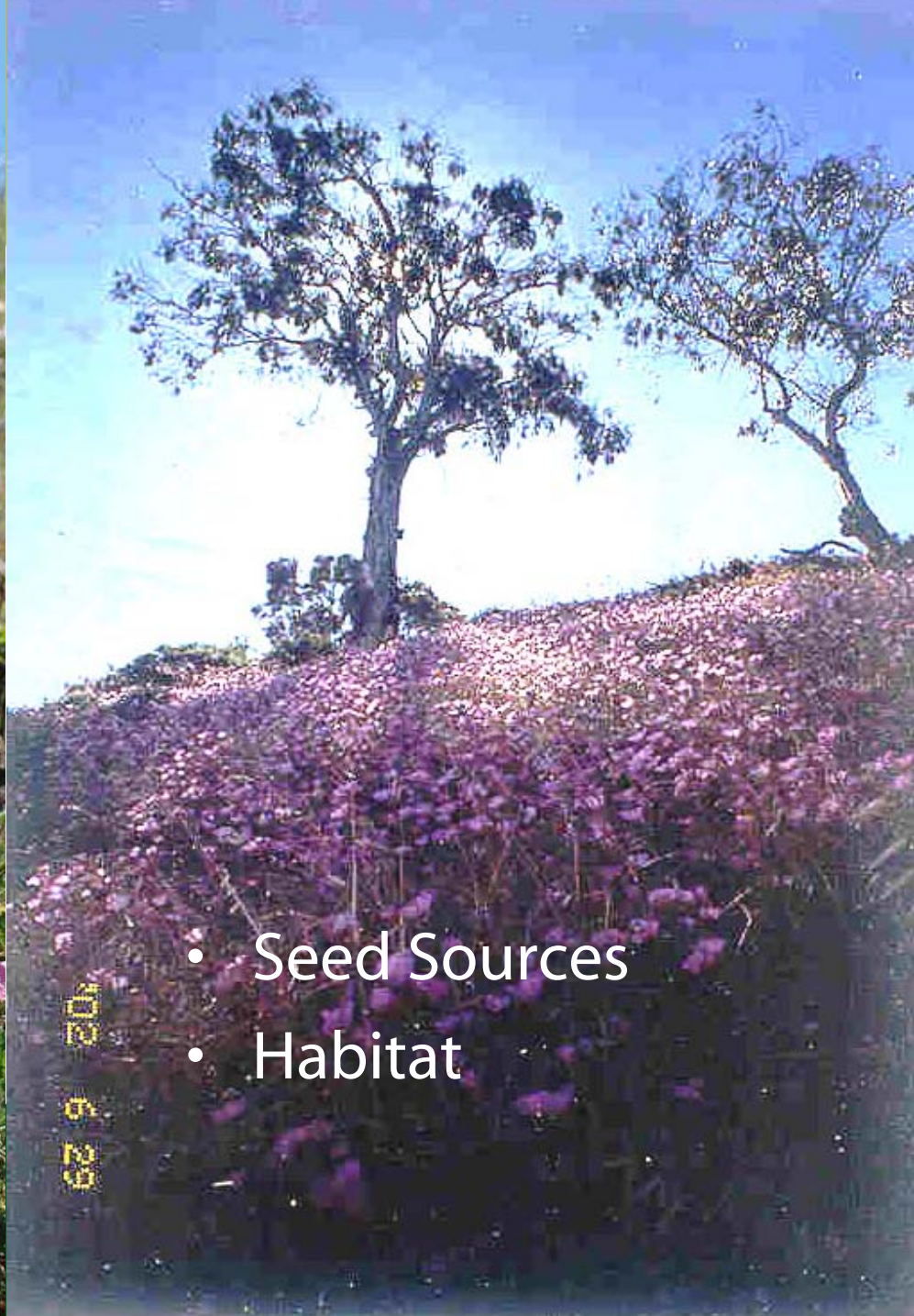
Mission St

Castro St

Cesar Chavez

Third St

Great Highway



- Seed Sources
- Habitat

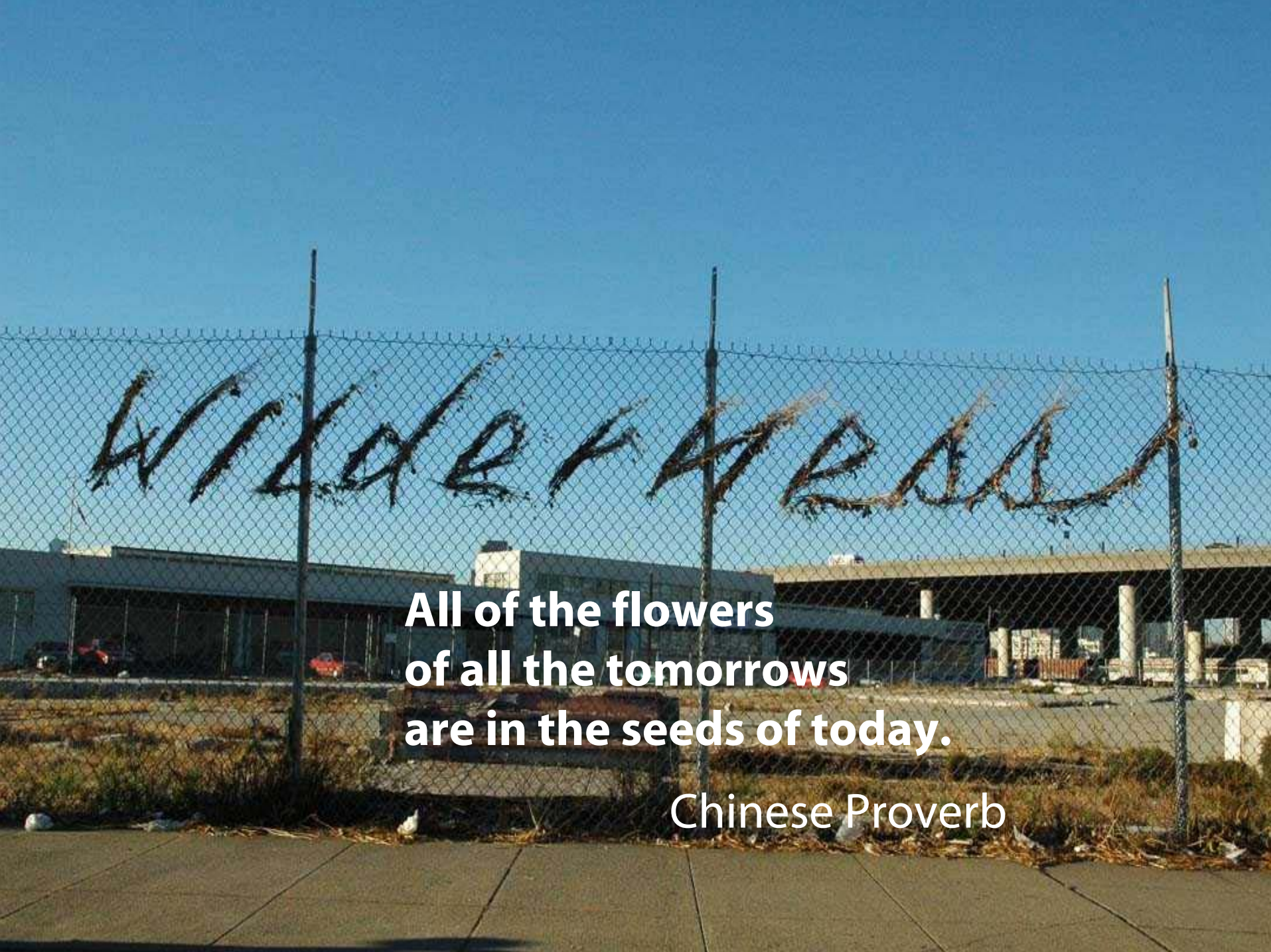
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# Tank Hill and Kite Hill



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- A close-up photograph of several bright yellow flowers with orange centers, growing from a sandy surface. The flowers are in various stages of bloom, and some green foliage is visible in the background. The overall scene is bright and natural.
- **The importance of small fragments**
    - **Invaluable volunteers**
    - **Adaptive management**
    - **Read the landscape**
    - **Get your hands dirty!**





**All of the flowers  
of all the tomorrows  
are in the seeds of today.**

Chinese Proverb