

# Grasses

8 *Brizopyrum*?

Creeping beneath the sand on beach,  
near the surface, (1-2 inches deep) the  
plant of which the specimens are part, 30  
ft long, and many more.

San Luis Obispo Nov 25

25 *Polygonum monspeliense*

By ditch - Los Angeles. Dec.

(*Polygonum monspeliense*?)

233

In tufts on dry hill near the sea  
San Buenaventura - March 1st

301

*Trisetum*

In tufts on dry hill side Santa Barbara, March 18.

323

*Trisetum*

Sides of dry hill Santa Barbara, March

376

*Agrostis*

Cliff by sea shore, Las Puellas near Sta Barbara, Apr. 25

418

*Phalaris intermedia*

On hill sides Nipoma Apr.

466 *Muhlenbergia debilis* Trin.  
Side of dry hills among rocks  
San Luis Obispo Apr.

580 *Stipulechrysopsis* E. S. S.?  
"Bunch Grass" dry sandy hills  
near Santa Inez Mission. May 2<sup>nd</sup>

587 *Ruellia cristata*  
Dry hill sides - near Santa Inez. May 2<sup>nd</sup>

587 *Melica proserpinstris* small form  
Dry hill sides - near Sta Inez. May 2<sup>nd</sup>

589 *Melica proserpinstris*  
Dry hill sides - near Sta Inez. Mission May 2-61

589 *Artemisia*  
Very common over the low hills of all the  
Coast Ranges. Sta Lucia Red Hills May 11-  
Generally grows large - very variable in size,  
and very valuable for paper

613 *Plant*  
Moist places, Monterey - May 10-61

- 614 *Pordium pratense* L. var.  
 In grassy fields, Monterey, May 10
- 615 *Festuca Myosuroides* -  
 on low hills, Monterey, May 10  
*Agrostis capillaris* L. var.?
- 658 In woods near sea, Monterey, May 25-
- 659 *Bromus villosus*,  
 In woods near sea - Monterey, May 25-
- 665 *Phalaris amabilis* Nutt.  
 Among bushes - sandy soil, Monterey May 25-
- 735 *Eragrostis condensata* Presl.  
 In Cañon, often over 6 ft high -  
 San Juan, June 29-
- 740 *Bromus ciliatus* L.  
 Among bushes in ravine San Juan July 1st -
- 804 *Agrostis villosa*  
 Fields - panicle brownish-purple, or purple.  
 Sta Cruz, Aug 5th

805

*Phlox proteus* L.

Saved Cruz. Aug 5<sup>th</sup>

861

*Menicum Themale* Bolander -

In saline, and often in soil at the Geysers

Nov. 1861. A branched state of something.

This grass is only seen near the Geysers, & "Little Little Geysers" grows often in soil highly impregnated with acid sulphates, rocks, and also in the siliceous centers near the springs -

Grasses of 1862

1000

*Lolium temulentum*

Among wheat and very rare in wheat fields -  
Walden Creek - ~~Apr 24<sup>th</sup>~~ <sup>Apr 30</sup> ~~May 6~~ <sup>not rare</sup>. but  
is mostly young

1001

*Phlox leucocaulis* Nutt -

In wheat fields, Walden Creek. <sup>Apr 30</sup> ~~May 6~~

1024

*Sclerella stipis* subsp. *californica*

By Hills near Walden Creek Apr 30 -

Forms small bunches, perennial -

1042

*Urtica dioica* L.

In wet place in valley, plant set young Walden Creek May 12<sup>th</sup>

▷ 1043 *Trophoclaena Californica* Torr  
New place in valley. Walnut Creek May 1<sup>st</sup> con-

▷ 1070 *Atriplex Californica*  
Dry hills, Mt Diablo. May 12.  
Grows in small bunches, foliage very fine  
and short, - known as "Squirrel grass"  
and considered of no value - Comes in the  
soil after the *Avena sativa* has become  
exterminated by its close feeding.

▷ 1077 *Festuca microstachya*  
Dry hills on slopes of Mt Diablo May 12 -  
nearly solitary, but few stalks from the  
same root - apparently annual

▷ 1112 *Festuca microstachya*  
Dry hills near Mt Diablo. May 19.

▷ 1122 *Atriplex Californica*  
"Squirrel Grass" dry hills Mt Diablo. May 19

▷ 1142 *Festuca microstachya*  
Mt Diablo in valley May 22.  
Abundant on dry hills, and on dry gravelly  
bottoms - of but little value

- Trifolium repens* Trin.  
 Top of dry hill, Mt Diablo, May 23.
- 1144  
*Festuca microstachya*  
 Dry hillside, Mt Diablo May 24.
- 1182  
*Aira dentonoides* Trin.  
 In moist soil, Mt Diablo May 24.
- 1183  
*Festuca ovina*  
 Hills & dry hills. Livermore Pass <sup>June</sup> May 3.
- 1196  
*Trifolium repens* Trin.  
 Hillside - Livermore Pass June 3.
- 1205  
*Trifolium repens* Trin.  
 Hillside - Livermore Pass June 3.
- 1208  
*Trifolium repens*  
 on low hills about Livermore Pass. - common  
 but not abundant. June 3.
- 1220  
*Stenotaphrum secundatum*  
 "Bunch Grass" over very dry metamorphic  
 hills Coral Hollow June 4
- 1250  
*Elymus condensatus* Desv.  
 Puerto Cañon June 11


- ▷ 1252 *Brizopyrum spicatum* var. *strictum*  
Alkaline, sandy soil in Puerto Cañon June 11  
Has long underground stems, extending  
several feet - probably the same that  
is found on the sand of Sea shore. -  
Common on very alkaline, wet soils

~~1250~~ *Stipa diocensis*  
*Stipa alpinoides*  
1258)

~~Stipa~~ A common "bunch grass"  
over the dry hills and cañons on East side  
of Diablo Range June 11-62

- ▷ 1262 *Stipa setigera*  
The most common and valuable "bunch  
grass" of the dry hills - June 11-

- ▷ 1296 *Stipa verticillata*  
By spring, (see 2008) Pacheco's Peak  
June 25

- ▷ 1436 *Phleum pratense*  
Common in the cold valleys about Mt. Diablo.   
Cultivated - called "Familly" and sown and collected  
with *P. pratense* - Sept 17, 62

- ▷ 1468 *Vilfa* - possibly new -  
Mounts of Deer Creek Cañon - large bunches 4-6 ft high,  
beautiful - Oct 10 -

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Nos. 1503 to 1550 inclusive,  
Collected by Mr H. A. Bolander in the  
vicinity of San Francisco - <sup>as his</sup> the west

1503.

*Elymus condensatus* Nutt.

At the borders of salt marsh at  
Oakland where it grows ~~in~~ very  
dense, like a wheat piece - 5-6 ft  
high - in bloom July 10-20

1504

*Elymus hibernicus?*

Common at the Bay, & hills, June

1505

*Festuca secalina*

(Beard Grass) forms tufts a foot in  
diameter on the borders of streams &  
in the ~~flat~~ <sup>wet</sup> hills - The leaves have the  
feel of velvet when young & remain at  
the lower side and are thickest,

1506

*Festuca Myuros*

Covers dry hills in great abundance  
in early spring

1507

Could name it for certain - *Festuca*

Forms tufts at the borders of streams  
and in flat hills June - July



- 1508 *Setaria viridis* (L.) Gauss.  
 sparingly inclined forming tufts.
- 1509 *Festuca ovina* L.  
 Covers dry hills in early spring
- 1510 *Dactyloctenium aegyptium*  
 In garden in July
- 1511 Not found  
 Border of a wood in Ockland, June 1847
- 1512 *Dactyloctenium aegyptium*  
 In wet meadows, San Mateo (20  
 miles S.E. of San Francisco) & sparingly
- 1513 *Phragmites communis* var. *peruviana*  
 In swamps at "The Willows" (Mission  
 Solares)
- 1514 *Agrostis verticillata* Vill.  
 In the garden of Col. Walker, where  
 it is the principal weed
- 1515 *Agrostis setacea* Trin. form of  
 In swamps near "The Willows"

- 1576 *Agrostis squarrosa*  
 Muddy shores. Auckland - Late in June -
- 1577 *Agrostis bulbosus* Willd.  
 In fence-corner at "The Willows"
- 1578 *Agrostis squarrosa*  
 In open meadows
- 1579 "~~*Agrostis squarrosa*~~" *Agrostis asperifolia* Trin.  
 In wet place - later than 1520 and  
 with much smaller anthers
- 1520 *Agrostis squarrosa* Trin.  
 In exposed precipices along the Bay,  
 where it grows large mats.
- 1521 *Agrostis squarrosa*  
 Muddy shores on Argyle Island - Early  
 June -
- 1522 *Agrostis asperifolia* Kunth?  
 In valley - Early June, Argyle Island
- 1523 *Hesperogon Monspeliensis* Desf. & Kunth  
 Common in roads & in wet places

↓ 1524 *Aira hirsuta* Steud. & Schumacher's Herb.  
Wet meadows, and borders of streams  
on island - July.

↓ 1525 *Aira elongata* Hook.  
Found in great abundance in wet  
and wet places

↓ 1526 *Lolium perenne*,  
In swamps among willows in great  
abundance - July

↓ 1527 *Brizopyrum spicatum* Hook.  
Abundant in salt marshes - June - July

↓ 1528 *Brizopyrum Douglasii*  
Deciduous - June in pine sand near  
beach, with long and creeping -  
Culms to 1 ft, mostly, but among shrubs  
where protected from the wind June  
3-4 ft high

↓ 1529 *Phalaris amabilis* ?  
Wet places on Mangel Island, grows in  
large tufts 2-4 ft in diameter - 5-6 ft high, June

- ✓ 1530 *Phalaris intermedia*  
 Spacing in meadows, at Oakland, in  
 wet places - May - June -
- ✓ 1531 *Poa cristata* - large form -  
 on hills - May, June - is inclined to  
 form tufts
- ✓ 1532 *Stipa emmonsii* Cur. *S. mucronata* H. N. H.  
 Common on all the hills, forms in  
 many places the principal grass
- ✓ 1533 *Danthonia Californica*  
 I described under the name of  
*Danthonia Californica*, is common on  
 dry hills where it is generally very  
 much reduced in size (*D. secundiflora*  
 I think)
- ✓ 1534 *Hordeum pratense*.  
 Abundant near salt marshes at  
 Oakland.
- ✓ 1535 *Hordeum minimum*.  
 Three Corners, common near Bay and  
 Mission Dolores

1536

*Phlebotomus*,  
dry hills near Kings Point - 29 Sept  
not ~~let~~ cultivated.

1537

*Myricaria Australis* Beauv.  
It is common on dry hills, in fact it  
occupies the place of bestrewed  
Myurus when dried up.

1538

*Juniperus Thunbergii* Bolander -  
Is the *Juniperus Californicum*, this  
name I changed to *J. Thunbergii*, as it  
is only found growing at the Geysers.

1539

*Melica imperfecta* Trin.  
In large tufts, very common, especially  
along the Bay - spreads its panicles  
white in bloom.

1540

*Melica parviflora* Nutt.  
Dry places, but well-liked - avoided  
by Cattle - same -

1541

not found  
Same as above

↓ 1542 *Bromus aphyllus* Hook. & Arn.  
Among shrubs, common - June - July.

↓ 1543 *Bromus racemosus*  
In woods and meadows, where it  
occurs in about the same manner  
as *Bromus secalinus* in wheat,  
at the least - June.

↓ 1544 *Bromus sterilis* L.  
In fence corner near Mission Dolores, June.

↓ 1545 *Lophoclema californicum* Hook.  
In wet places in meadow, 3 miles back  
of oakland - island taken by cattle - seems  
too weak to support itself - June  
(the most interesting grass found here)

↓ 1546 *Bromus viridis* Nutt.  
Common in moist places, and on dry  
sand which is apparently moistened  
by subterranean springs - exceedingly  
variable - The glaucous specimens are  
found among others, but ~~are~~ not  
flowering much later - I have not been able  
to distinguish them - June.

↓ 1547

*Poa Plateensis*  
Spring in meadows of highlands

↓ 1548

*Poa trinitatis*  
Cauca near Puzos Dolores

↓ 1549

*Poa annua*  
Roads, & cultivated watered fields

↓ 1550

*Stropis subperuviana*  
Hills near Bay where it assumes  
large form

↓ 1551

*Trisetum* <sup>barbatum, Steud?</sup>  
all the pieces, now like ~~some~~ <sup>early</sup> ~~form~~  
Key Bay - common on dry hills, where  
it covers large spots - shows its seeds  
large - for March & June -

↓ 1552

*Trisetum cernuum* Trin  
Common in openings of cañons, also  
near Bay where I found the largest  
specimens Apr. June.

↓ 1553

*Sitanion thymoides*  
By many hills, Angel island, San Jacinto,  
backland - common, forming large mat-stocks

variable in size - May-June

✓ 1554

*Glyceria pauciflora*

About 7 miles South of San Francisco  
in a well wooded swamp in which it  
occupies the glades. - End of May -  
Bright green large leaves.

✓ 1555

*Glyceria maximum* Nutt.

10-15 miles South of San Francisco in  
an open swamp subject to overflow  
by tide water - June in tufts ~~occupies~~  
occupying the more elevated places.  
June - apparently not called by Cotto.

✓ 1556

*Spartina stricta*

Salt marshes, etc.

✓ 1557

Single specimen sent name

✓ 1558

*Glyceria filiformis*

Bay.

✓ 1559

*Agrostis alba* L.

Missin Dolores, Cal.

*Olygopogon canescens*

✓ 1560

Locality unknown - Cal.



Grasses collected in California  
in 1863 by W. H. Brewer, H. A. Bolander  
and Dr. Wm. Hillebrand -

1825 to 2189. Sierra Nevada - Coll. by W. H. Brewer

1825 *Atropis Californica*

In woods at alt 6000-7000 ft, on  
the Yosemite trail, June 15

1846 *Panicum dichotomum*

By sandy soil in Yosemite Valley,  
at 4,500 ft. Common on sand and  
among rocks June

1865 *Pleurum alpinum*

Damp hill sides - Head of Tuolumne  
river at <sup>9,100</sup>~~8,800~~ ft. July 3<sup>rd</sup> -

1842 *Elymus condensatus* -

Common about Mono Lake, and the  
dry regions east of the Sierras, 6000-7000 ft.

Generally on rather dry soil, often 7 ft.  
high, from a tough perennial  
root, in large bunches - July

~~Handwritten scribble~~

1846 *Brizopyrum orientale*.  
Dioecious grass saline soil on the  
Islands in Mono Lake <sup>(B.S.W. 11)</sup> - ~~seen~~ seen  
Common on saline and alkaline  
soils at various altitudes - Creeps  
by running stems

1921 ~~*Helianthus*~~ ~~*Atriplex*~~ ~~*leucophylla*~~ *multicaulis*  
By rocks, at Sonora Pass at  
about 7000-8000 ft. Not seen much  
higher - July 21<sup>st</sup> -

1922 ~~Too few to make out~~ *Atriplex Californica*  
Woods last, but not abundant -

1947 *Festuca subspicata* var. *molle*.  
Common - Big Tree Road - 5000-8000 ft.  
July 30 -

1965 *Phleum alpinum*.  
Moist meadows, Silver Valley, 7200 ft.  
July 31 -

1976 *Festuca* - low alt -  
By Hell Side, above Silver Valley  
8000 ft - July 31<sup>st</sup>

- 1998 *Sitonia elymoides*.  
By Hill sides, at 9000 ft - above  
Carson Pass, - Aug 2<sup>nd</sup>
- 1999 *Atriplex Californica*  
Moist hill sides, near Lost.
- 2044 *Eriogonum subspicatum*  
Near summit of Silver Mountain  
11,000 ft. Aug 5-
- 2067 *Glyceria verrucosa* Trin.  
By Brook. Scandinavian Cañon - 7000 ft.  
Aug 6<sup>th</sup>
- 2068 *Tritium evolucion Hornem.*  
Very dry places - 8000-9000 ft - Aug 7 -  
near Silver Mountain trail
- 2072 *Sitonia elymoides*  
By Hill sides - Near Silver Mountain trail  
8000-9000 ft - Aug 7
- 2073 *Phleum alpinum.*  
Moist places, near Lost - 8000 ft. Aug 7

- 2077 *Atriplex Canbyi* n. sp.  
Dry hills, alt 8000-9000 ft., near  
Silver Mountain trail. Aug 7
- 2078 *Atriplex Californica*  
Rather moist places, 8000-9000 ft.,  
Near Silver Mountain trail, Aug 7
- 2088 *Bromus ciliatus* var.  
Dry hills 8000-9000 ft., near Silver  
Mountain trail Aug 7<sup>th</sup>
- 2118 *Triticum curivum* B. Kuhnlein. det. B.  
Dry places near summit of  
Carson Pass. 8000 ft. Aug 16<sup>th</sup>
- 2128 *Calamagrostis* sp.  
In valley near summit of Carson  
Pass. 8000 ft. Aug 16
- 2169 *Panicum dichotomum* var.?  
Around all the hot springs south  
East of Lassen's Peak, often on  
very saline soils, and very near  
hot water and hot steam - Sept 24

Numbers 2217 to 2231, Collected by  
Dr J. G. Cooper at Fort Mohave,  
Colorado River and Mohave River,  
Winters of 1880-81

2217 *Aristida leuifolium* Shrub.  
Fort Mohave

2218 *Frustris pulchella*.  
6 in. high, in fruit - gravel plains  
at Fort Mohave - Dec. 20 - March 5

2219 *Elymus condensatus* -  
5 ft. high - Green - Bottom lands -  
The best grass at Mohave River - June 5 -

2220 *Polygouon Montpelieris*.  
2 ft high - Camp Cady, Mohave River  
June 2<sup>nd</sup> 1881

2221 *Brizopyrum spicatum* - strictum  
Greenish-yellow - Marsh at Soda Lake -  
- Sink of the Mohave - May 31 -

2222. *Phragmites communis*.  
10 ft high - Marshes at Soda Lake -  
Sink of the Mohave River - plant  
piled - May 31 -

- 2223 *Eriocoma cuspidatum* Nutt.  
2 ft high - top of Providence Mountain  
and west to Cajon Pass May 29-61
- 2224 *Stenotaphrum secundatum* -  
2 ft - greenish purple - E. slope of  
Providence Mountain - May 29-61
- 2225  
2 ft high - Summit of Providence  
Mountains - 5000 ft - May 29-61
- 2226 *Bouteloua oligostachya* -  
6 in. Anthers purple - Summit of  
Providence Mountain - 5 - Collier  
Buffalo Grass - May 29-61
- 2227 *Panicum Graminifolium* -  
3 ft high - Greenish brown -  
Colorado Valley - Lat. 25° - In garden -  
introduced? - May 19-61
- 2228 *Panicum capillare* -  
Greenish yellow - In garden -  
introduced? Colorado Valley - May 20/61
- 2229 *Festuca microstachya* Nutt. - reduced form  
Mohave - May -

2230

*Pennisetum setaceum*  
4 ft high - greenish purple -  
Fort Mohave - Feb. 24

2231

*Sporobolus airoides*

3 ft. Anthers purple - in tufts -  
purplish - Sandy bottoms - Fort  
Mohave - March 25 -

No's 2232 to 2240 -

Collected by Dr. J. G. Cooper at San  
Diego - Cal - 1862

2232

*Alropis uniflorus*

2 ft - Sand near sea beach - San Diego  
March 25 - 62

2233

*Stipa setigera*

4 ft - greenish - Sand near sea beach -  
San Diego - March 19 - 62

2234

*Hordium pusillum* Nutt.

2 ft. yellow - Gravel Hill - San Diego  
Apr. 3 - 62



- 2235 *Perovnia breviristata* -  
 4 fl. greenish - sandy sea beach  
 San Diego Apr 3/62
- 2236 *Perovnia* ?  
 2 fl. greenish - sand near sea shore -  
 San Diego March 10/62
- 2237 Nothing to determine form.  
 30 fl - Woody. fl. ? damp soil -  
 introduced - rare - San Diego - March 15/62
- 2238 *Perovnia*.  
 3 in. Grayish - Pastures - San Diego. March 15/62
- 2239 *Hordium murinum*.  
 San Diego. March - 1862
- 2240 *Atriplex Californica*  
 3 fl - greenish - dry soil hills -  
 San Diego - March 14/62
- 2241 *Bouteloua polystachya*  
 Purplish - gravel plain at Fort  
 Mohave - Feb. 23/61 - J. G. Cooper

- 2242 *Pleurum alpinum*  
 43 *Pleurum pratense*  
 44 *Calamagrostis Canadensis*  
 45 ————— " *deuda* -  
 46 *Circa cuspidata* var -  
 47 *Agr. Curiana* Trin?  
 48 *Agr. Pyramidalis*  
 49 *Ayrostis scabra*  
 2250 " "  
 51 *Ayrostis* sp. nov -  
 52 *Glyceria verrucosa* Trin  
 53  
 54  
 55 *Stipa viridula* Trin.  
 56 *Glyceria verrucosa* "  
 57 *Triticum caninus*  
 58 *Bromus ciliatus* L.

*Stipa depumata* Trin. *Pleurum verrucosa*  
 alt. 4000 - 6000 ft. no number  
*Friestema subspicata* 2002 - not on list -  
*Atriplex* Calif - 2003 & 2004, no loc & not on list

Numbers 2242 to 2258 inclusive  
 Collected by Dr Wm. <sup>Hillebrand</sup> ~~Hillebrand~~  
 at Big Trees, Colavara Cr. alt  
 4770 ft. Spring of 1863 - and sent by  
 Mr Bolander -

2242 }  
 2258 }

Big Trees. by Dr Wm. Hillebrand

Numbers 2259 to 2269  
 inclusive, collected by H. G. Bloomer  
 Esq. at and near Virginia City, Nevada  
 Territory - Spring and Summer of  
 1863 - sent by Mr. Bolander -

2259 }  
~~2269~~ }  
 2269 }

Virginia City, N.T. collected by  
 H. G. Bloomer Esq.

Altitude of Virginia City 6,400 ft.

- 2259 Festuca ~~sp. nov.~~ see this.
- 60 Alopecurus geminatus var aristatus
- 61 Stipa occidentalis Nutt - (see this)
- 62 Melica prostrata
- 63
- 64 Sporobolus asperifolius Nees & Mey.
- 65 Panicum capillare.
- 66 Atropis bulbif.
- 67 " "
- 68 Agrostis asperifolia Trin?
- 69 Atropis bulbif.

Numbers 2270 to 2297. Grasses  
Collected by H. N. Bolander Esq., near  
San Francisco, 1865

2270 *Holcus lanatus* L.

Swamp. S. F.

2271 *Ayrostis alba* Muhlberg.

Swamp. S. F.

2272 *Ayrostis asperifolia*

Swamp. S. F.

2273 *Glyceria paniculata* Nutt.

Swamp. S. F.

2274 *Culmogyrostis Aleutica* Trin.

Oakland Hills - Habit of bunch grass

2275 *Elymus condensatus*?

Fort Point - S. F.

2276 *Festuca paniculata microstachys*

Oakland Hills

2277 *Poa trivialis*.

Fields

- 2278 *Agr. Sparuta*  
Along Bay, and on dry hills
- 2279 *Milium*  
Marin Co. among the Redwoods
- 2280 *S. setigerum*  
Common, on plains
- 2281 *Milium bononiense*  
Hills
- 2282 *Agrostis Sparuta*  
About the Bay
- 2283 *A. Sparuta*  
Hills
- 2284 *Elymus Sibiricus*  
Marin County
- 2285 *Elymus Sibiricus*,  
San Francisco
- 2286 *Agrostis asperifolia*  
Swamps, San Francisco

- 2287 *Phalaris intermedia* Bosc.  
Swamps - S. F.
- 2288 *Lolium perenne* -  
Swamps, San Francisco
- 2289 *Bekmannia erucaeformis* -  
Oakland Hills
- 2290 *Phleum pratense*  
Swamps
- 2291 *Festuca microstachys* .  
Oakland Hills
- 2292 *Atriplex Californica* .  
Oakland Hills
- 2293 *Festuca paniculata* Thunb.  
Oakland Hills
- 2294 *Cyrtis verticillata*  
About Bay
- 2295 *Cyrtis asperifolia*  
By Hills
- 2296 *Festuca ovina* -  
About Bay -

Numbers 2417 to 2421 inclusive,  
Collected by H. N. Bolander on a trip  
to Clear Lake, Sept. 1863

- 2417 *Paspalum distichum* L.  
Meadows. Clear Lake
- 2418 *Leersia axyroides*  
Banks of Cache Creek
- 2419 *Panicum crus-galli*  
Napa Creek
- 2420 *Panicum Capillare*  
Clear Lake - Common
- 2421 *Phragmites Capillare* L.  
Clear Lake
- 2493 *Agrostis exarata* L.  
Tomales Bay - Marin Co. by Bolander