





Agave Mezcal (?)



San Felipe June 18th 1889

Agave ? "mezcal"

Stem 4 to 10 ft. - 1 to 2 inches diameter
 at base - subtended by ^{deciduous} bracts
 deltoide acuminate above becoming
 oblong & leaf-like below spirally
 disposed nodose at their attachment
 to the stem closely embracing it
 below its base merging into the
 stem - giving the cylindrical stem
 a wavy appearance ^{light green} lower leaves

forming a dense cluster around the
 base of the stem spatulate oblong 6 to
 8 inches long & broad, sparse at
 top directed up and more horizontal
 at bottom their edges set with
 sharp somewhat hooked backward
 teeth - upper bracts within 1 to 2
 ft at top having in them apices

peduncles horizontally flattened, the
middle ones the longest 2 to 3 inches
dividing at its extremity into
close bundles of pedicels supporting
a thick mass of yellow flowers
on smooth green ovaries. The main
peduncles spreading more horizontally
below more perpendicular above
flowers 8 petaled every alternate
one thickly nerved on the outside
bearing a stamen on its thickened
disc on the inside, filaments
horizontally thickened tapering upward
anthers ^{1/3 inch} inserted about the middle
Petals white yellow cylindric 3
knobbed at top 1 inch long equalling
in exceeding the stamens 3 times
the length of the petals.
fruit 3 rarely 4 celled dehiscent
above, seeds black shiny &

root fibrous at the insertion
of the leaves enclosing a thick
fleshy mass 3 inches diameter
forming the edible part when cooked

Habit  hills & valleys about
San Felipe, its crowded clusters
of leaves covering patches 4 to
6 ft diameter few! having
flower  stalks at the same
time



(No 2 sent to Engelman)
Edmonso cactus -

San Felipe

Stem cylindric, in young state globose
largest about the center, rounding
at top; ribs vertical or somewhat
spiral in large specimens 24 or 25
intervals angular. 1 inch wide at
top - tubercles blunt flattened
horizontally bearing spines at
the apex, axis short woolly
spines in close spreading branches
lower central one longest 2 inches
slender curved to a point flattened
horizontally and marked with
beaded rings white, in the
younger ones pink about the
center - fruit in the axis of the
upper spines crowded as the upper
with the confused spines of the
approximating ribs axis of fruit
very woolly

4 inner spines the longest the three
upper pointing upwards & side ways
surrounded by smaller rays

fruit 7 inch long, 2 inches diameter
scales semicircular woolly bilobate
close to the fruit - remains of
flower adherent of oblong yellow
scales longest in center. color

A fruit light greenish -

measurements of a large specimen
height 2 ft 10 inches. Circumference
3 ft.

Habit dry rocky Canons near
San Felipe.

length of longest spine $2\frac{1}{4}$ inches

No 2 sent to Engelman!
Cereus. Englemania (miki)

Stem cylindric 6 to 10 inches, several stems proceeding regularly from the same root, 2 to 2 1/2 inches diameter ribs perpendicular about 13.

tubercles irregularly rounded, intervals shallow areolae woolly with short wool particularly on the newer part of the stem spines immersed in the areolae composed of 4 longer central, and surrounded by smaller rays. the lower central spine the longest, projecting downwards 1 1/2 inches, the three other projecting downwards & to the each side

fruit in the axils of the upper spines few & irregularly distributed near 1 to 2 inches from top, obovoid oblong 1 1/2 inches long with an acheneal inch for the dried remains of the flower apparently pink flower 1 1/2 inch diameter

covered with smaller spines & areolae sparsely disposed sparse at base & crowded in a confused spinous ring around the sepals. ripe fruit yellowish pink, composed of a thin skin covering an interior seedy pulp of black seeds immersed in a pink & white - pulp very succous taste.

Habit Dry mountain about San Felipe - spines white younger ones brown at base needle shaped not barbed fruit greenish subacid general color pale green

Opuntia - (No 6 sent to Engelman) San Felipe

Stem cylindric, jointed; joints 4 to 8 inches
1 inch in diameter: tubercles oblong
 $\frac{1}{2}$ to 1 inch long tapering at base
spines at the apex with short brownish
wool in the axils. Sparsely disposed
spines small the central one pointing
downwards $\frac{1}{2}$ inch long. whitish
flower greenish yellow $\frac{1}{4}$ inch
diameter. sepals entire small bract form
acuminate inner petals? obovate
acuminate Stamens numerous, shorter
than the style. style cylindric
nearly as long as the petals green
with brown stigmas radiate at
summit - fruit obicular & oblong
broadly umbelicate by the falling of the
flower clothed with fine spines - and
radicate near the summit of the new growth

Habit hills & plains about

San Felipe prostrate & ascending
forming patches 2 & 3 ft in diameter

Opuntia Parryi Engelm

Agave (Shawii Engelm.) Initial point of
near, Body line

Stem 8 to 12 ft growth 8 inches
growing out of the apex of prolonged
clusters of leaves; tapering towards
the middle club shaped above &
below. surface purple green
nearly covered by broad triangular
scales inserted obliquely & sparsely
arranged nodose at base. clasping
the stem, branches long & broad
at insertion

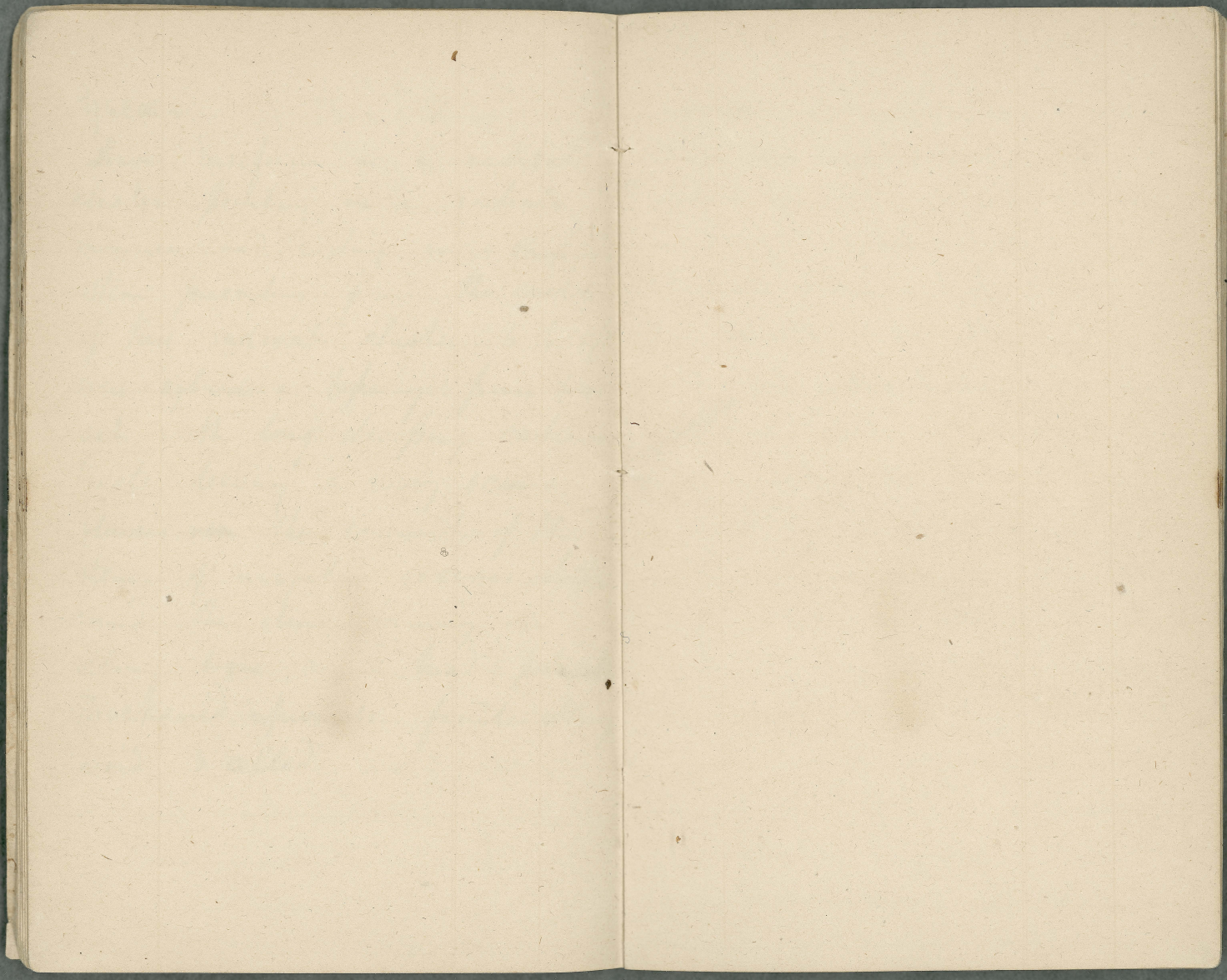


Leaves spatulate acuminate
widening at their insertion
10 inches long $4\frac{1}{2}$ wide at widest
upper part set with a cartilagenous
ring with horizontal hooked
bristles and ending in a sharp
acumination colour light

green marked with the impressions
of the hooks of the folding leaves in
growing margin purplish spines
yellowish-white at tip - the apex of
the growing ^{the axis} leaves prolonging
till the axis becomes prostrate
Upper part of stem thickening
to the lower flower branches
peduncles flattened horizontally
and proceeding at right angles
with the stem subtended with
a large bract; bearing flowers in
a close cluster at extremity of
peduncles without distinct pedicels
middle flower branches the longer
forming roundish tip; fruit with
the remains of flowers, oblong
ve

Yucca-

Leaves ensiform in a radical cluster pointing in a rachate manner and ending in a sharp point. Stem, proceeding from the center of this radical cluster. 6 to 10 ft even cylindric tapering from base set with long drooping caducous bracts leaving a warty scar-flower near the summit of the stem. of irregular racemes disposed round the stem forming an oblong loose round head. ~~pedicels~~ thickened upwards fruit oblong void 3 celled



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Chelopsis - n sp ? San Felipe

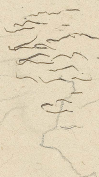
^{shortly toothed}

Calyx 2 lipped, upper larger, tomentose
externally. flower 2 lipped upper lip 2
lobed crumpled edge lower lip 3 lobed
longest - corolla tubular. flattened
horizontally pinkish white with the
lower lip on the inside streaked with
pink lines and 4 yellow tomentose
lines. Stamens included anthers
2 lobed attached to the filament at
their junction - stigmas flattened
horizontally longer than the longest
stamens & flowers in a raceme at
the extremity of the young branches.
leaves alternate linear lanceolate
4 to 6 inches often falcate
a shrub 6 to 15 ft. growing in
clumps of young & old shoots
the older often 4 inches diameter
in grey bark resembling a willow.

in general appearance. Pods
drooping 6 to 10 inches long
seeds winged.

Habit Plain of San Felipe

25 yds



Expenses on trip to the
mountains -
June 11th to June 21st 1850

Grain for animals -	2.50
Provisions	2.00
Expenses	10.50
	<u>\$ 15.00</u>

Expenses on trip to the
mountains

July 6th to July 16th 1850

Grain for animals -	\$ 6.00
Incidental expenses	10.00
	<u>\$ 16.00</u>
Total	\$ 31.00

paid Sept-



RK31
P248n

V.11

SSW to Lakeview 3 miles
W to W up canyon 2
S to top of hill
S to ridge line

SS to ridge line June 11th
55-8 W

S
SW - Camp

W to Shawbensen 4 miles
SSW 10 miles
W 36.15 miles
WW Don Miguel 25 miles as a rule

342248

Yuth of a line 13 1/4 4 in



