

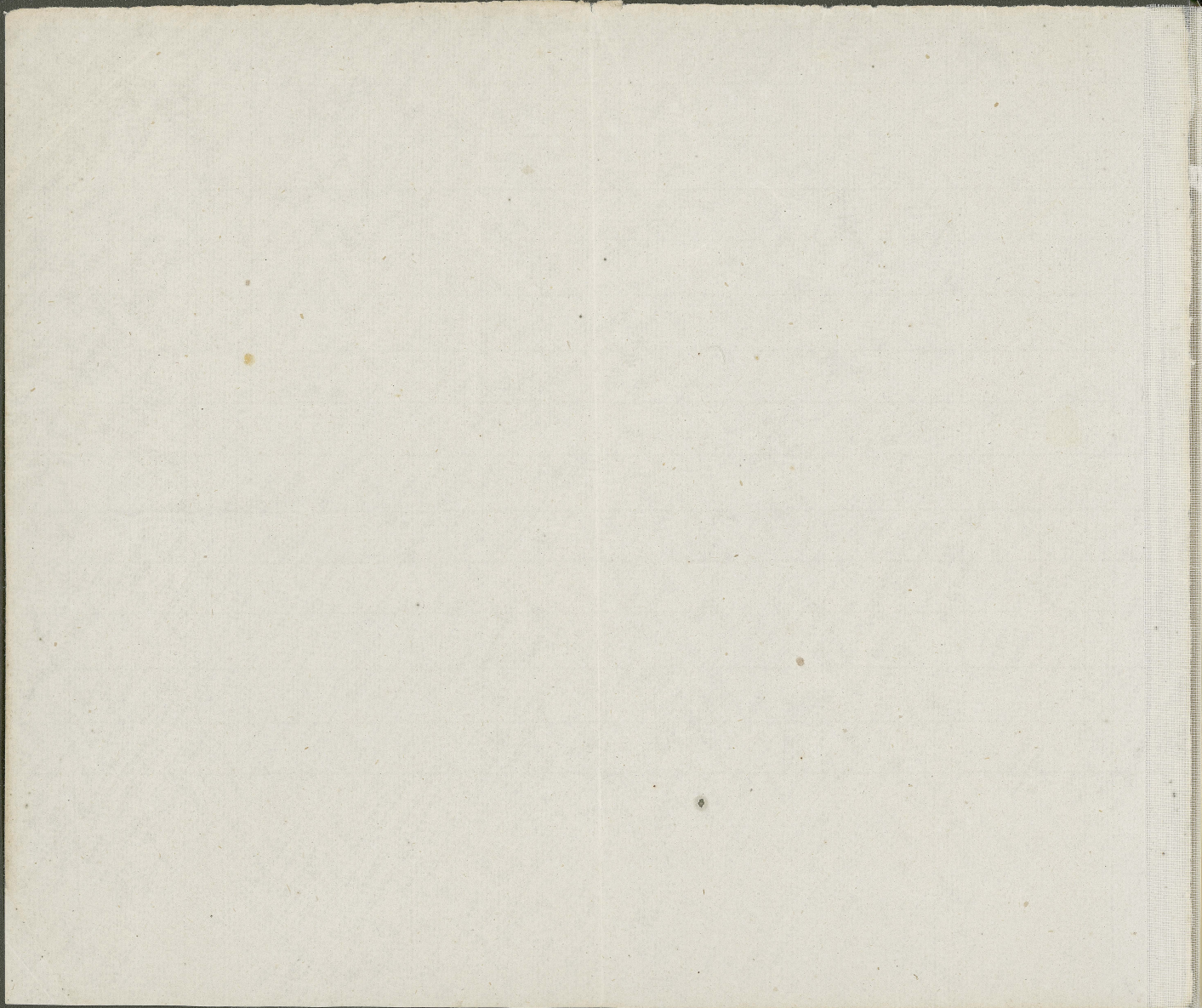


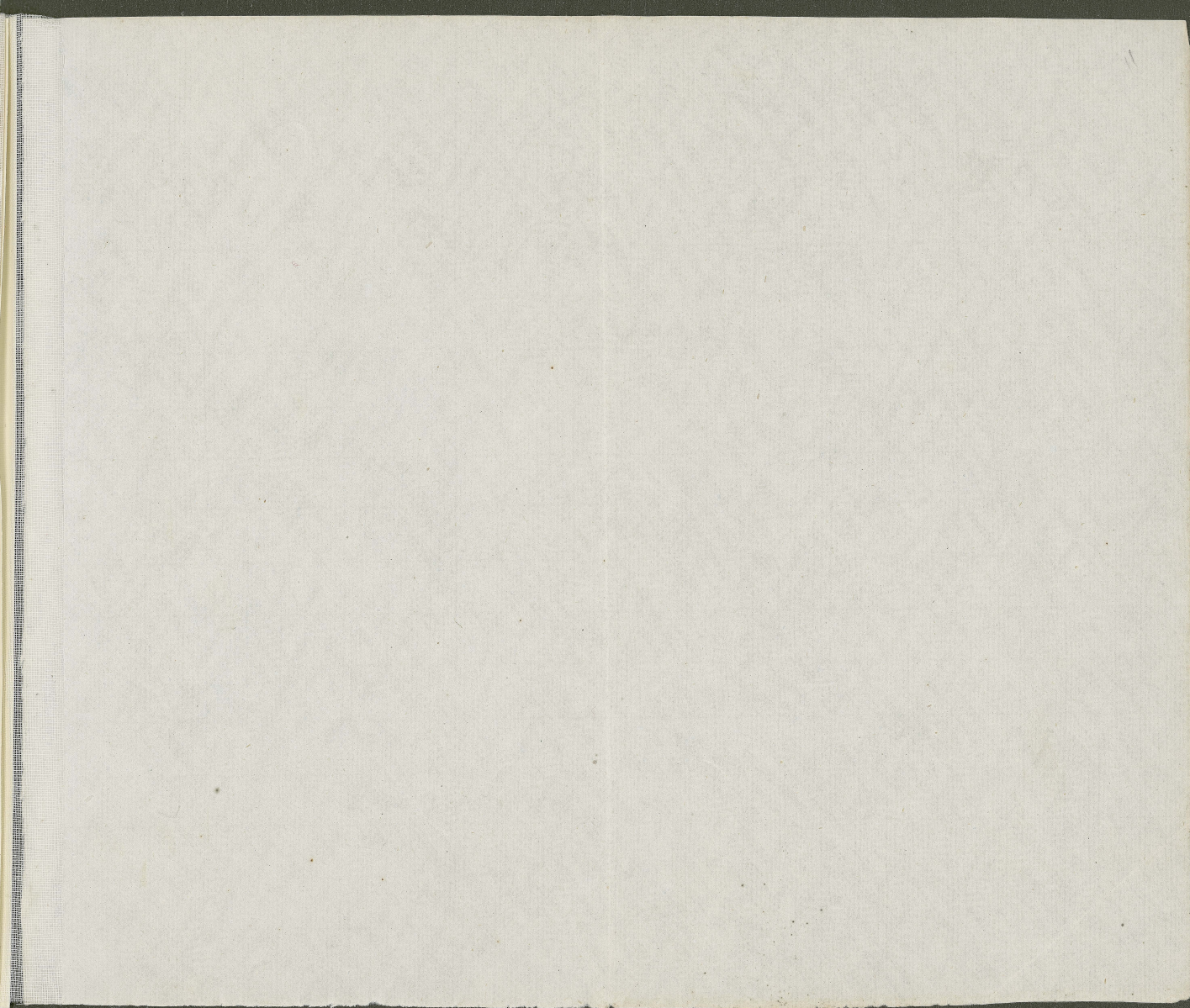
Cucurbitaceae

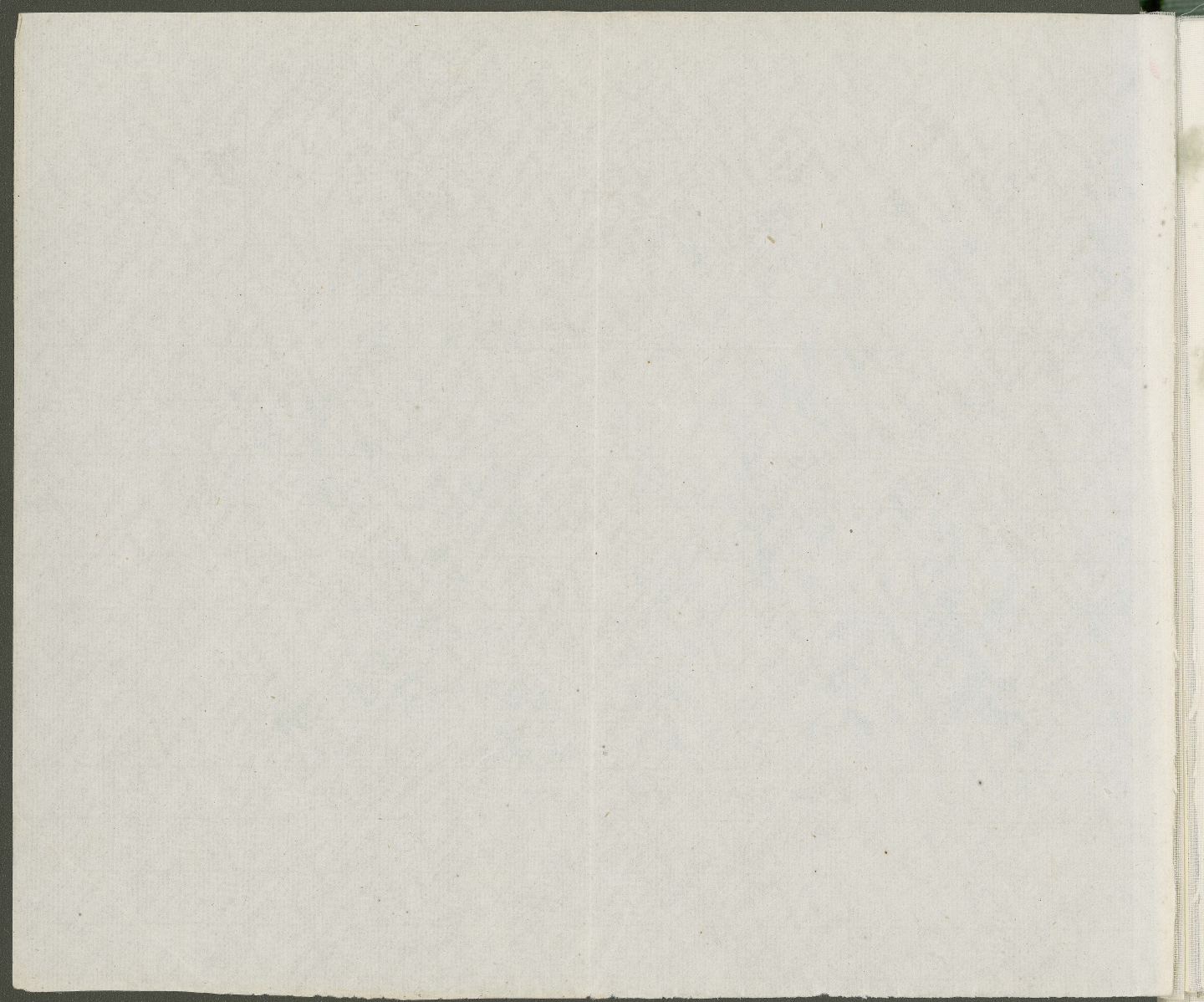
Plant creeping leaves palmately lobed
No. 1- Fruit, orbicular 3 inches in diameter
marked with 10, perpendicular lines
the lines corresponding to 10 internal
chambers, viz. 5 ^{placentiferous} carpels, with
inflexed margins, forming an
additional false dissepiment. seeds
ovate, resembling those of the common
pumpkin one half the size

No. 2- Plant creeping, with triangular
lobate leaves & tendrils

Fruit (immature) of 3 carpels with
inflexed placentiferous margins







The pursuits of civilized life¹⁰
those pursuits that may better
their physical & animal condition
and rouse into vigor the
budging germs of civilization
what will be remain to be
seen —

another. one foot advanced but
never taking a step on the road to
civilization —

One other point is deserving of
notice. They are not superstitious
as most of the North American
tribes are. They seem to be scarcely
occupied with any ideas of a Supreme
being or a future state. Their
answer to all such questions is
"Iriens Sobie" who knows? and
having had no means of learning
they have reached the state of
contented ignorance —

They are subject to few vices
among these heathen men &
gambling are the most conspicuous
the former in some cases
growing into a passionate
rathem. The evils of
Intemperance are unknown
though it is to be feared they
will come in with whiskey
with the whites. already
their chief men are acquiring a
taste — but the majority

cannot be induced to touch
the intoxicating ingredient
as a people they are cheerful
& good natured.

They have long had intercourse
with the Mexicans by whose
authority their Chiefs have
been appointed —
Their history is ^{consisting only in oral tradition} enveloped
in obscurity —

Their language is a dialect
probably varying little from that
of neighbouring tribes with whom
they live in friendly intercourse
they recognize as natural enemies
the Maricopas of the Gila &
the Apaches the Arabs of
Western America —

Living in a country of limited
natural resources, and brought
into intercourse only by the transient
medium of travel much may be
done for them by a wise maintenance
of their personal independence &
and wholesome encouragement in

into some difficulty in my
descriptions. I might for instance
in a philosophic mood of course
attempt to trace to the Yumas
traces the origin of an article
that but few years since made
such a commotion in the civilized
world but I must attend
to my millions —

The millions finished seemed to
have an exhilarating effect on
the company, and for want of
understanding our authors language
we talked by eye. Our hands &
skin seemed to express the most
attention, as it seemed to be a
point in dispute whether both were
natural — to convince them of
the former my companion
pulled mine until his face
the tears came — but they seemed
still in doubt whether our faces
were of the true pattern. ^{a faint glow} till
this too was at length settled
by one of the more resolute
laying open the bosom of my

compared to the wonder
of all presents - having in
this way agreeable satisfied
our curiosity we returned to
Camp -

Perhaps
The Apaches, are one of the
lower class of those interesting
tribes which living on the
waters of the Colorado ^{and its tributary} maintain
a semi-civilized character
support themselves by cultivating
the soil ^{and} are disposed to war
and the precarious pursuits of
hunting - occupy limited areas
and in fact are such as we
might expect to find in a
community whose character
calls for little exertion to
procure the ordinary necessities
of life ^{and content to depend on the labour of others} - taught ^{to regard} no
personal rights as a matter
of policy - their government
is simple, gifted with health
& subject to few diseases they
live on one generation succeeding

the Capitán of the village invited
us to visit his Casa - and as an
inducement held up 3 of his fingers.
to represent mellons for our enticement
we were fain to accept the former
without its accompaniment, but it
would not do to refuse - so in single
file we threaded our way through
willow shaded paths, & till we
opened on the fields of Capitan
Antonio. - *Todas mis (all mine) señas*
The Capitán as he stretched his
hands over a narrow pumpkin
patch with an air of pride, we
could only say "bueno?" (good) and
made for the edifice - in style
this corresponded with the one we
have described. with perhaps more
of an air of splendor - here ushered
in to the domestic circle we were
invited to a seat in the dust
an invitation which previous
habits made not unappropos
The Capitán was as good as his word
& went into his patch to select
the mellons - left in the mean
time with the women we will
attempt a hasty description before
the Capitan comes in

the Yumas women seem remarkable
for nothing so much as a generally
adolescence of form - & their
fully exposed busts the ~~tears~~
plump ^{though not very white} ~~would~~ ~~well~~ ~~aptly~~
convey the full idea there
set off with finely rounded
limbs - and long coarse black
hair falling down behind.

~~white~~ in front lined in a short
band directly over the eye brows
gives to their painted faces
that aspect which may be
especially termed uncivilized
add to this a dress - whose
pattern ^{may be readily made}
^{from its simpler description}
out of a coil of rope passing
round the loins - on which are
hung strips of bark reaching
down to the knees ^{reaches} as a necklace
or an ear ring - may be allowed
to set off the description &
you have before you a lady
of the Yumas nation -

But I am glad Antonio has
come in with the moccasins
as I might have been led

As soon as our camp duties afforded the
necessary leisure we started to return the
friendly visits of our Indian neighbors
passing over the ^{base} ~~singular~~ gravelly hills
which mark the ^{so singularly} junction of the Gila &
Colorado rivers. we look down upon
a former bed of the Colorado - In this
bottom still ~~verdant~~ ^{verdant} with the fresh green
of the waving willows - may be traced
the cultivated fields of the Indians
in isolated patches of maize beans
pumpkins & melons - descending
the hill we alight at once on a
Rancho - and without halting for an
instant ^{we} ~~are~~ ^{are} ~~located~~ ^{located}. The most comfortable
spot for ^{our} ~~your~~ observation - The house
a properly the shed. was built upon
& upright posts. supporting at an ^{easy}
good sloping height a roof ^{loosely} ~~loosely~~
with willow branches - under this
disposed in fanciful arrangements
a variety of articles met the eye
included horse skin bags, - war plumes
a bow with its accompanying arrows
and a rusty rifle without a lock -
various out houses set off the main
lodge - some of these, sunk partly
in the ground & arched over with
willow, ~~more~~ ^{were} ~~and~~ ^{and} ~~chunked~~ ^{chunked} up with

long grass seeming to be a provision
for colder weather. - in these the grain
& beans now find a safe deposit

Perhaps full as long as this
description were we seated at our
observing post before, seeming to
be whirled by its industrious inhabitants,
among these an wrinkled old dame
occupied in making mud baskets
only seemed to plie her muddy
task more vigorously - a young
girl with long flaming hair & painted
limbs, was developing his fair
proportions over a rough stone mill
in which the double process of
grinding & dough mixing, was carried
on the raw material being a
fine species of ~~glau~~ ^{slaty} ~~rock~~ -
while dusty young ones rolled on
the ground, the white of their ^{slaty} eyes
seeming the only clear part about
them - All at once attention
seemed to be fairly aroused to old
woman forsook her task, and came
up gesticulating with her muddy
hands & overwhelmed with with
a torrent of the pure native tongue
the mill forgot to grind - and the

the soil composed of fine river
sediments - was every way calculated
for the kind of cultivation to which
it is appropriated, being at the
same time easily filled & tolerably
productive - subject to overflows
every spring it loses none of
its fertility & from its warm
nature is especially adapted to
the kind of productions required.

We next came on what may
be called the lower hall where
were assembled the modest children
that make up the Pucelle -
the Captains or Chief men - the
middle & the lower classes - all
engaged respectively in appropriate
employments - the Captains in the
center of the lodge seemed to be
earnestly discussing the public
welfare - boys at their games
and women with the necessary
accompaniment of babies, filled
out the group - in which we found
for a time an outside seat -
mellows again took the rounds
again we stood & were startled at
and mutual laugh & uncomprehended
gests, passed on both sides -

Cereus, Californicus - Stem ^{erect &} cylindrical
1 1/2 inches diameter ~~from~~

perpendicularly ribbed. Ribs 15-
separated by sharp grooves. Tubercles
thicker at summit 1/2 inch long,
linear, rather sharp rounded, areolae
on the upper part, round & beaded
with brownish, short, bunches of
spines thickly spread over the
whole surface, interlocking proceeding
from the areolae one central
one much the longest, nearly
perpendicular 2 inches long
needle shaped whitish green but the
external ones, smaller, acicular
spreading in all directions &
numerous 40 to 50 not barbed
at top of stem (spines) & (areolae),
crowded in a dense mass

Flower not seen. Its remains crowding
the fruit — Fruit globose
disposed ^{irregularly} near the summit of the
latest growth, solitary or several
together, thickly clothed with
areolae & spines. except its lower
part, like a portion of the main
stem. $1\frac{1}{2}$ diameter
seeds numerous black
middle sized &

Habit Dry Hill sides near the sea
joint 6 to 4 inches, growth central
with ~~seasonal~~ effects, growing in thick
masses, when old spines separate
in a body from main axis
leaving dry hollow woody fibres.

top, widening to their insertion. Transverse³
marked: $1\frac{1}{2}$ in long. very stiff, green,
tinged with red - transverse ones
more rounded, shorter, annulated.
external spines, disposed in a
radiate manner like the legs of
a spider - all more or less curved
converging upward, flowers ^{smaller}
disposed in the axils of the upper
spines, persistent, and adhering to the
fruit - (fresh flowers not seen)

Fruit globular or gooseberry shaped,
 $3\frac{1}{2}$ in covered with adhering, lunate
shaped scales, greenish tinged with
red. ~~leaves~~ & separable from its
receptacle when ripe, leaving an
aperture for the escape of the
seeds small black somewhat
kidney shaped

tuberculate or pitted, externally
narrowly shaped with flattened
planes

Hab. Dry Hills & ridges - medium
size. 6 inches diameter, 4 inches
high. I measured one 18 inches
in diameter & 1 foot high
whole plant weathering into a
nest of spines -

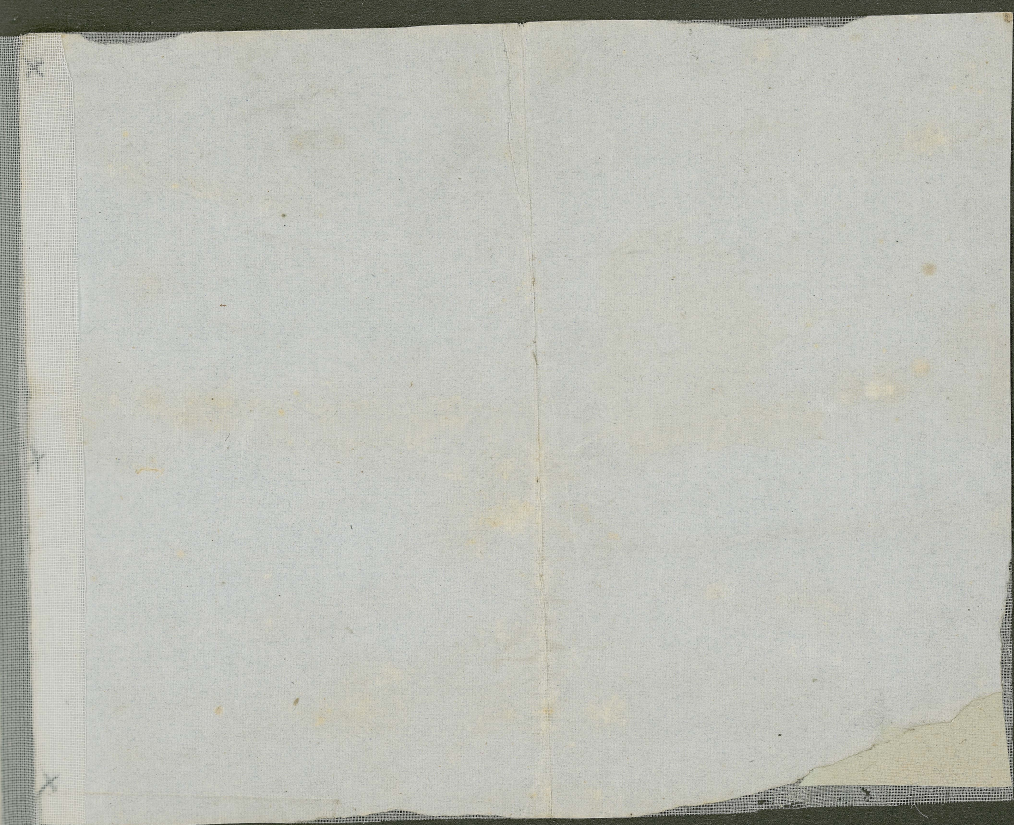
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Habit - sides of dry hills, plants
frequently 1.5 inches diameter less
than 1/2 in thick - older joints
thickening or becoming ligneous
weathering into reticulated
fibres - ^{usually very} prostrate, ascending
and spreading flowering through the
season flower larger than b. bulgar.
yellowish tinged with red on the
outside.

Opuntia —

Stem cylindrical, (older) brownish lignous
beet with clusters of spines diverging
in oblique lines.

Echinocactus, wislizenii — Plant
flattened at base and
globose. Ribs vertical, strongly marked
with deep furrows. no 21- in smaller
specimens, some odd number between
lobes, slightly swelling from the
main rib, 6 inch long, with woolly
sides and branches of spreading
spines. The lower portion
of the areolar top depressed woolly,
uniting the areolae of the center
sides, — Spines, diverging 15 to 20
inserted in woolly substance, 4 central
larger, diverging at right angles
perpendicular to transverse. The
2 perpendicular base of flattened at

flowers produced mainly on the edges
of the joints, - sepals in 3-4 rows
outer thick greenish broad ovate &
mucronate, inner oblong ovate
to ^{long} wedge shaped mucronate ~~yellow~~
~~with redish tones~~ - Stamens
numerous disposed in rows, at the
base of the sepals ^{larger than the pistil} ~~outer and together~~
^{longer} Pistil Much ^{longer} round, redish
crowned with 10 green stigmata
radially disposed - Fruit ^{or fruit} obovate
deeply & broadly umbilicated
1 1/2 inches diameter, 2 inches long
redish when ripe; covered with
areolae and branches of slender
^{hilly} spine. Seeds, ^{many} irregular kidney shape
with a dark centre & colored
whitish margin.



with the remains of the flower
glabrous. Thickly covered with spines
areolar ascending a portion of the
main axis.

axis subterminal; it grows
protruded, thick scaly, thick
base with ^{length of} spines a central
long one, and shorter ones
in younger shoots entirely covering
the main axis - Caducous in
age & separating, in a mass
from the small central
axis consisting of a hollow
woody & growing by apposition
at the summit
fruit round set on the
side solitary or 2 to 3
in cl. As the common
axis - flower not seen
fruit -

axis cylindrical, beset with
clusters of spines disposed
in oblique lines from left
to right round the stem.
The main stem becoming
smooth & ligenous, branches
divaricate with the spines
set on ^{summit} main form prostrate
arises, - The summit generally
radiate branched, fruit
disposed in glomerules
near the summit of the
radiate branches. The
later fruit springing from
the sides of the earlier &

in fruit ovate umbelicate
set with spines like the
young branches, -
flowers (red) petals 7
sepals at base forming a
short tube outer sepals
broad ovate inner oblong
ovate. Stamens numerous,
disposed in rows &
inserted on the ovaries.

often 2 to 3 inches
diameter young branches
easily separable, spines
furnished with a membranous
sheath.

very sharp barbed
& easily separating from
them. Attachment grows
isolated in waste places
or forming extensive &
impassable thickets.
The main stem weak,
into a hollow tube
dissected to a coarse
net work of hard
ligenous fibres.

