

Table of Differences Between *Opuntia cymochila* and *O. tortispina*

<i>Opuntia cymochila</i>	<i>Opuntia tortispina</i>
Nonyellow flowers uncommon but not rare	Nonyellow flowers rare over much of range
Flowers with yellow centers, sometimes greenish yellow	Flowers with orange or red centers possible
Tepals usually rolled at margins, flowers can look ruffled.	Tepals generally not rolled, flower doesn't look ruffled. Flower forms a simple bowl.
If not round, pads widest at middle or even rhomboid	If not round, pads oval or obovate
Pads strongly wrinkled in winter, more than creased—raison like	Pads only dimpled in winter unless very cold (below zero) then may be wrinkled, but not raison like
Pads in spring/summer with permanent lines/creases from winter	Pads in spring/summer without permanent lines/creases from winter
Pads may be wrinkled at end of summer, wrinkles remain next season	Pads may be wrinkled at end of summer, wrinkles do not remain next season
Stems/plants flat on ground in winter	Stems/plants only leaning in winter unless very cold (below zero F?)
Pads often deep purple in winter on upper side, green below	Pads may retain some green in winter on upper side, green below
Fruit oval to round, can be elongated	Fruit oval to round, not elongated
Fruit may be tapered at base	Fruit usually not tapered at base
Fruit rim acute/sharp at apex (umbilicus), not rounded	Fruit rim not acute/sharp at apex (umbilicus), rounded
Fruit color variable, duller	Fruit color variable, brighter
Fruit with small spines	Fruit with no (or almost no) spines
Seeds with wide rim	Seeds with narrow rim
Seeds larger	Seeds smaller
Seeds may be wavy	Seeds not wavy
More areoles on pad surface—thus, pad can look spinier	Fewer areoles on pad surface—thus, pad can look less spiny
Often 1 central but sometimes 2; radials few and white and often appressed	Often 2-3(4) centrals, radials may grade into centrals
Smaller leaves	Larger leaves

