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WHOLESALE PRICE LIST
HOWARD E. GATES, 119 S. Illinois St., Anaheim, Calif. USA. Department of Agriculture

SIXTH COLLECTING TRIP in LOWER CALIFORNIA, Mexico, Feb. to April, 1933.

TERMS--Prices are in United States dollars. Prices include free packing in ventilated wooden cases & delivery to a Mexican port. Brokerage, export duty, ocean freight & insurance extra. Delivery costs to Europe in large shipments of assorted species about \$35 of invoice value, to Japan \$30. TIME OF SHIPMENT:--February, March & April, from Lower California via Los Angeles Harbor, Cal. Allow 50 days to Europe, 35 days to Japan. PAYMENT:--75% cash with order, balance including delivery costs upon arrival. LOSS OF PLANTS:--Good plants, liberal count, & excellent packing will be provided; but as these prices are as low as is possible to quote, loss of plants in transit are at Customer's Risk. MINIMUM ORDER at these prices \$35.00. DISCOUNTS:--On orders amounting to \$250, 5%; on \$500, 10%; on \$750, 15%; on \$1000, 20%. 5% additional allowed for all cash plus estimated shipping costs at time of placing order. HEALTH CERTIFICATES:--Furnish us with any special regulations of your country to avoid subsequent inconvenience. UNITED STATES CUSTOMERS must secure Federal Importation Permits. SPECIES UNDERSCORED are from Sonora & Sinaloa and cannot be promised unless sufficient business is offered to extend the trip to these States. NAMES: According to "Cactaceas" by Britton & Rose.

On One(1) only, add 35% to cost of items in first column.

#	Item	10	50	100
	CEREUS TYPES, 6 inches to 15 inches high.			
1	Bergerocactus emoryii (Cereus emoryii)	.35	.30	.25
	<u>Cephalocereus purpusii</u>	.60	.50	.40
	" <u>leucocephalus</u>	.80	.60	.50
45	Lemaireocereus thurberi (Cereus Thurberi)	.35	.30	.25
45A	" littoralis (Cereus littoralis)	.35	.30	.25
	" montanus	.80	.60	.50
46	Lophocereus Schottii, one foot hairy tip cuttings	.60	.50	.40
46A	" " Monstrosus, cuttings per foot	.80	.60	.50
130	" australis, one foot hairy tip cuttings	.60	.50	.40
140	" sargentianus, 1 " " " "	.60	.50	.40
47	Machaerocereus eruca, the creeping devil cactus	.50	.35	.30
48	" gummosus (Cereus gummosus)	.35	.30	.25
49	Myrtillocactus cochal (Cereus cochal)	.60	.50	.40
100	Pachycereus pringlei (Cereus pringlei, titan, calvus)	.40	.35	.30
101	" pectenaboriginum	.40	.35	.30
	<u>Rathbunia alamoensis</u>	.60	.50	.40
	<u>Selenicereus vagans</u>	.35	.30	.25
	TUBEROUS CEREUS			
106	Peniocereus johnstonii---tubers only	1.50	1.25	1.00
	<u>Wilcoxia papillosus</u>	.60	.50	.40
108	" striata	.60	.50	.40
	GLOBULAR TYPES (Echinocactus)			
	<u>Ferocactus alamoensis</u>	.40	.35	.30
22	" "Californicus"	.25	.20	.15
22	" " smaller @ \$7.50 & \$10.00 per 100			
23	" fordii	.35	.30	.25
26	" chrysacanthus	.35	.30	.25
27	" diguettli, the largest barrel cactus	1.75	1.50	1.25
29	" horridus	.80	.60	.50
30	" johnstonianus	1.75	1.50	1.25
31	" orcuttii, smaller at 5¢ & 7½¢ each	.20	.15	.10
33	" peninsulae	.35	.30	.25
36	" santa maria	1.75	1.50	1.25
129	" rectispinus, very rare and scarce	4.00	3.00	2.00
37	" townsendianus	.35	.30	.25
43	" new species (see foot note)	.35	.30	.25
160	" " " " " "	.25	.20	.15
160	" " smaller at \$10.00 per 100			
161	" " (see foot note)	.35	.30	.25

RESEARCH REPORT NO. 1000

The following table shows the results of the experiments conducted on the reaction of hydrogen peroxide with various metal ions in the presence of different catalysts. The reaction rate was measured by the volume of oxygen gas evolved over a period of 10 minutes at 25°C.

Metal Ion	Catalyst	Volume of O ₂ (ml)
Fe ²⁺	None	0.5
	K ₂ S ₂ O ₈	12.5
Cu ²⁺	None	0.2
	K ₂ S ₂ O ₈	8.0
Mn ²⁺	None	0.1
	K ₂ S ₂ O ₈	5.0
Ni ²⁺	None	0.3
	K ₂ S ₂ O ₈	6.0
Zn ²⁺	None	0.1
	K ₂ S ₂ O ₈	4.0

The results indicate that the reaction rate is significantly increased in the presence of potassium persulfate (K₂S₂O₈) as a catalyst. The rate of reaction is highest for Fe²⁺ and lowest for Mn²⁺. The order of reactivity is Fe²⁺ > Cu²⁺ > Ni²⁺ > Zn²⁺ > Mn²⁺.

The effect of the concentration of the metal ions and the catalyst on the reaction rate was also studied. It was found that the reaction rate increases with increasing concentration of both the metal ions and the catalyst. The reaction is first order with respect to the concentration of hydrogen peroxide and first order with respect to the concentration of the metal ions.

Prices of Echinocereus, Cochemeias, Bartschelia & Neomammillarias are for assorted singles and small clusters.

		10	50	100
# 9	Echinocereus new species (see foot note)	.25	.20	.15
10	" brandegeei (Cereus brandegeei)	.20	.15	.12
11	" barthelowanus	.25	.20	.15
13	" grandis, very rare	.75	.50	.40
	" luteus	.40	.35	.25
14	" mammillatus	.20	.15	.12
15	" maritimus (Ech. flaviflorus)	.20	.15	.10
16	" pacificus (Cereus pacificus)	.75	.50	.40
17	" pensilis (Cereus pensilis)	.75	.50	.40
18	" sciurius (Cereus sciurius)	.20	.15	.10
	" scopulorum	.40	.35	.25
5	Cochemeia halei (Mammillaria halei)	.25	.20	.15
7	" poselgeri (" poselgeri)	.25	.20	.15
9	" setispina (" setispina)	.35	.30	.25
1	Bartschelia schumanii (Mammillaria schumanii)	.20	.15	.10
50	Neomammillaria albicans	.25	.15	.10
51	" armillata	.20	.15	.10
52	" arida	.40	.35	.25
144	" blossfeldiana	.20	.15	.10
53	" brandegeei	.35	.25	.20
54	" ceralboa	.60	.50	.40
56	" evermanniana	.60	.50	.40
57	" fraileana	.25	.15	.10
58	" goodridgei	.20	.15	.10
	" johnstonii	.35	.25	.20
64	" la pacena, new giant species	.35	.25	.20
	" mainae	.35	.25	.20
	" mazatlanensis	.35	.25	.20
60	" peninsularis	.20	.15	.10
61	" petrophila, very rare and good	.80	.60	.50
138	" phitauiana	.25	.20	.15
	" sheldonii	.25	.20	.15
62	" slevina	.35	.30	.25
	" standleyi	.35	.30	.25
	" swinglei	.25	.20	.15
68	" new species (see foot note)	.25	.20	.15
OPUNTIAS, cylindric types:				
75	Alcahes			
77	Burrageana			
78	Calmalliana			
80	Cholla			
81	Ciribe			
82	Clavelliana			
87	Molesta			
120	Tesajo			
	Mortolensis	.35	.25	.20
OPUNTIAS, flat padded type:				
83	Comoduensis			
85	Gosseliana			
90	Pycnantha			
91	Margaritana	.40	.30	.25
	O. invicta, o. pycnantha & O. margaritana cuttings	.25	.20	.15
86	Opuntia invicta	.75	.60	.50

FOOT NOTES:

- # 9 Echinocereus resembles E. maritimus but bright yellow spines.
- 43 Ferocactus new species, very long, hooked, brown spines.
- 160 " " " short, very wide, heavy, hooked red spines. Resembles Echinocactus corniger but brighter.
- 161 Ferocactus new species, very long, twisted, hooked spines.
- 68 Neomammillaria new species, clusters of slender branches, hooked spines, pink flowers, red fruit, very attractive.
- 144 Neomammillaria blossfeldiana, the only Neomammillaria with fleshy roots, yet not milky, has hooked spines. Pink flower. We collected the live plants used in Bodecker's description.
- 46A Lophocereus schottii monstrosus, ribless & spineless, smooth green skin over queer protuberances. Very interesting.
- Idria columnaris from \$1.00 up. 2-foot, \$3.00. 3-foot, \$5.00.
- Agaves, about 20 species of Euagaves peculiar to the Peninsula of Lower California. List of species on request. .60 .50 .40
- Dudleyas, about 50 species mostly new. .35 .25 .20
- Eupedilanthus macrocarpus (Euphorbia parkhardii) .35 .25 .20
- Pachycornis (veatchia) discolor \$1.50 up
- Yucca valida, a tree yucca 2.00 1.50 1.00
- Fouquieria burrageana (Ocatillo) 2.00 1.50 1.00
- " diguetii (Ocatillo peninsularis) .60 .50 .40

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