

Storage Crops – Case Studies



Crop	Units	Carrot	Onion	Potato	Cabbage	Squash
Storage Density	lb/ft ³	22	20	42	17	35
Temp	°F	32–34	32	36-40	32	50
RH	%	98 – 100	65 – 70	99 – 100	98 – 100	50-70
Duration	Months	7 – 9	6 – 9	Up to 12	3 – 6	1-3
Resp. rate at temp	$\frac{\text{mg CO}_2}{\text{kg} \cdot \text{hr}}$	10-20	3 (cured)	6 – 18 (cured)	4 – 6	100
	$\frac{\text{BTU}}{\text{ton} \cdot \text{hr}}$	138	28	110	46	917
Ethylene Prod. Rate	$\frac{\text{uL}}{\text{kg} \cdot \text{hr}}$	< 0.1	< 0.1	< 0.1	< 0.1	Trace
Ethylene Sensitivity	$\frac{\text{uL}}{\text{L}}$	High ~ 0.2	Low > 1500-2000	Low	High ~ 1.0	Low