



Cooling Chart

Name: _____ Address: _____

Food Product							
Refrigeration or Room Temp							
Food / Container L x W x H / Material							
Date							
Time at 135°F		:	:	:	:	:	:
After 1 Hour	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
After 2 Hours <small>(must be 70°F or below)</small>	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
After 3 Hours	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
After 4 Hours	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
After 5 Hours	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
After 6 Hours <small>(must be 41°F or below)</small>	Temperature	°F	°F	°F	°F	°F	°F
	Time	:	:	:	:	:	:
Corrective Action Taken							
Manager/Employee Signature							

For Successful cooling of food use the following formula to help you determine if your rate of cooling is fast enough:

- 1) Cool from 135°F to 70° F within two hours, the rate of cooling must be approximately 0.54°F/minute $(135-70=65^{\circ}\text{F} \div 120 \text{ minutes (2 hours)}=0.54^{\circ}\text{F})$ or $\sim 32^{\circ}\text{F per hour}$
- 2) Cool from 70°F to 41°F within 4 hours, the rate of cooling must be approximately 0.12°F /minute $(70-41=29^{\circ}\text{F} \div 240\text{min(4 hours)}=0.12^{\circ}\text{F})$ or $\sim 7^{\circ}\text{F/hour}$.

Example: Initial temperature of soup is 135°F. One hour later the temperature is 129°F. $135-129=6 \div 60\text{min}=0.1^{\circ}\text{F/min}$. The rate of cooling is not fast enough. The rate needs to be $\sim 0.54^{\circ}\text{F/min}$.