

Texas Department of State Health Services

Vaccine Storage and Handling

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www.ImmunizeTexas.com



Objectives

- Review updated Temperature Recording Form (C105)
- How to record Min/Max Temperatures
- Discuss the future of thermometers and data loggers
- Process for monitoring vaccine at off-site clinics

Storage and Handling 1

TEMPERATURE RECORDING FORM (C105)

Temperature Recording Form (C105)

- Federal Recommendation for 2014
 - Review and record minimum and maximum temperature readings at the beginning of the work day
 - Temperature logs must contain time of reading and the initials of the person who assessed and recorded the temperature

Temperature Recording Form (C105)

- Document will now be 3 pages per unit



Temperature Log for Refrigerator – Fahrenheit

DAYS 1–15



Temperature Log for Refrigerator – Fahrenheit

DAYS 16–31

Vaccine Storage Troubleshooting Record (check one) Refrigerator Freezer

Temperature Recording Form (C105)



Temperature Recording Form Refrigerator—Fahrenheit DAYS 1–15

Month/Year _____ VFC PIN or other ID # _____ Page 1 of 3

Facility Name _____

Monitor temperatures closely!

1. Write your initials below in "Staff Initials," and note the time in "Exact Time."
2. Record temps twice each workday.
3. Record the min/max temps once each workday—preferably in the morning.
4. Put an "X" in the row that corresponds to the refrigerator's temperature.
5. If any out-of-range temp, see instructions to the right.
6. After each month has ended, save each month's log for 5 years.

Take action if temp is out of range—too warm (above 46°F) or too cold (below 35°F).

1. Label exposed vaccine "do not use," and store it under proper conditions as quickly as possible. Do not discard vaccines unless directed to by your state/local health department and/or the manufacturer(s).
2. Record the out-of-range temps and the room temp in the "Action" area on the bottom of the log.
3. Notify your vaccine coordinator, or call the immunization program at your state or local health department for guidance.
4. Document the action taken on the "Vaccine Storage Troubleshooting Record" on page 3.

Day of Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Staff Initials															
Exact Time	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm	am pm
Min/Max Temp (since previous reading)	/														
Danger! Temperatures above 46°F are too warm! Write any out-of-range temps and room temp on the lines below and call your state or local health department immediately!															
temperatures	46°F														
	45°F														
	44°F														
	43°F														
	42°F														
41°F															
Action for 40°F															
acceptable	40°F														
	39°F														
	38°F														
	37°F														
	36°F														
35°F															
Danger! Temperatures below 35°F are too cold! Write any out-of-range temps and room temp on the lines below and call your state or local health department immediately!															
action	Write any out-of-range temps (above 46°F or below 35°F) here:														
	Room Temperature														

If you have a vaccine storage issue, also complete "Vaccine Storage Troubleshooting Record" found on page 3.

Adapted with appreciation from California Department of Public Health

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Technical content reviewed by the Centers for Disease Control and Prevention
 www.immunize.org/atg/di/p03037F.pdf • Item #P03037F • (8/13)

Temperature Recording Form (C105)



Temperature Recording Form Refrigerator–Fahrenheit DAYS 1–15

Monitor temperatures closely!

1. Write your initials below in “Staff Initials,” and note the time in “Exact Time.”
2. Record temps twice each workday.
3. Record the min/max temps once each workday—preferably in the morning.
4. Put an “X” in the row that corresponds to the refrigerator’s temperature.
5. If any out-of-range temp, see instructions to the right.
6. After each month has ended, save each month’s log for 5 years.

Temperature Recording Form (C105)

Day of Month	1	
Staff Initials		
Exact Time	AM	PM
Min/Max Temp (since previous reading)	/	
Danger! Temperatures above		
TEMPERATURES	46° F	
	45° F	
	44° F	
	43° F	
	42° F	
	41° F	
Aim for 40°		
ACCEPTABLE	40° F	
	39° F	
	38° F	
	37° F	
	36° F	
Danger! Temperatures below		
ACTION	Write any out-of-range temps (above 46°F or below 35°F) here:	
	Room Temperature	

Temperature Recording Form (C105)

ACTION	Write any out-of-range temps (above 46°F or below 35°F) here:		
	Room Temperature		

If you have a vaccine storage issue, also complete "Vaccine Storage Troubleshooting Record" found on page 3.

Temperature Recording Form (C105)

Vaccine Storage Troubleshooting Record (check one) Refrigerator Freezer

Page 3 of 3

Use this form to document any unacceptable vaccine storage event, such as exposure of refrigerated vaccines to temperatures that are outside the manufacturers' recommended storage ranges. A fillable troubleshooting record (i.e., editable PDF or WORD document) can also be found at www.immunize.org/clinic/storage-handling.asp.

Date & Time of Event <small>If multiple, related events occurred, see Description of Event below.</small>	Storage Unit Temperature <small>at the time the problem was discovered</small>		Room Temperature <small>at the time the problem was discovered</small>	Person Completing Report	
Date:	Temp when discovered:		Temp when discovered:	Name:	
Time:	Minimum temp:	Maximum temp:	Comment (optional):	Title:	Date:
Description of Event <i>(If multiple, related events occurred, list each date, time, and length of time out of storage.)</i> <ul style="list-style-type: none"> • General description (i.e., what happened?) • Estimated length of time between event and last documented reading of storage temperature in acceptable range (35° to 46°F [2° to 8°C] for refrigerator; -58° to 5°F [-50° to -15°C] for freezer) • Inventory of affected vaccines, including (1) lot #s and (2) whether purchased with public (for example, VFC) or private funds (Use separate sheet if needed, but maintain the inventory with this troubleshooting record.) • At the time of the event, what else was in the storage unit? For example, were there water bottles in the refrigerator and/or frozen coolant packs in the freezer? • Prior to this event, have there been any storage problems with this unit and/or with the affected vaccine? • Include any other information you feel might be relevant to understanding the event. 					
Action Taken <i>(Document thoroughly. This information is critical to determining whether the vaccine might still be viable!)</i> <ul style="list-style-type: none"> • When were the affected vaccines placed in proper storage conditions? (Note: Do not discard the vaccine. Store exposed vaccine in proper conditions and label it "do not use" until after you can discuss with your state/local health department and/or the manufacturer[s].) • Who was contacted regarding the incident? (For example, supervisor, state/local health department, manufacturer—list all.) • IMPORTANT: What did you do to prevent a similar problem from occurring in the future? 					
Results <ul style="list-style-type: none"> • What happened to the vaccine? Was it able to be used? If not, was it returned to the distributor? (Note: For public-purchase vaccine, follow your state/local health department instructions for vaccine disposition.) 					

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Technical content reviewed by the Centers for Disease Control and Prevention
www.immunize.org/catg.d/p3041.pdf • Item #P3041 (8/13)

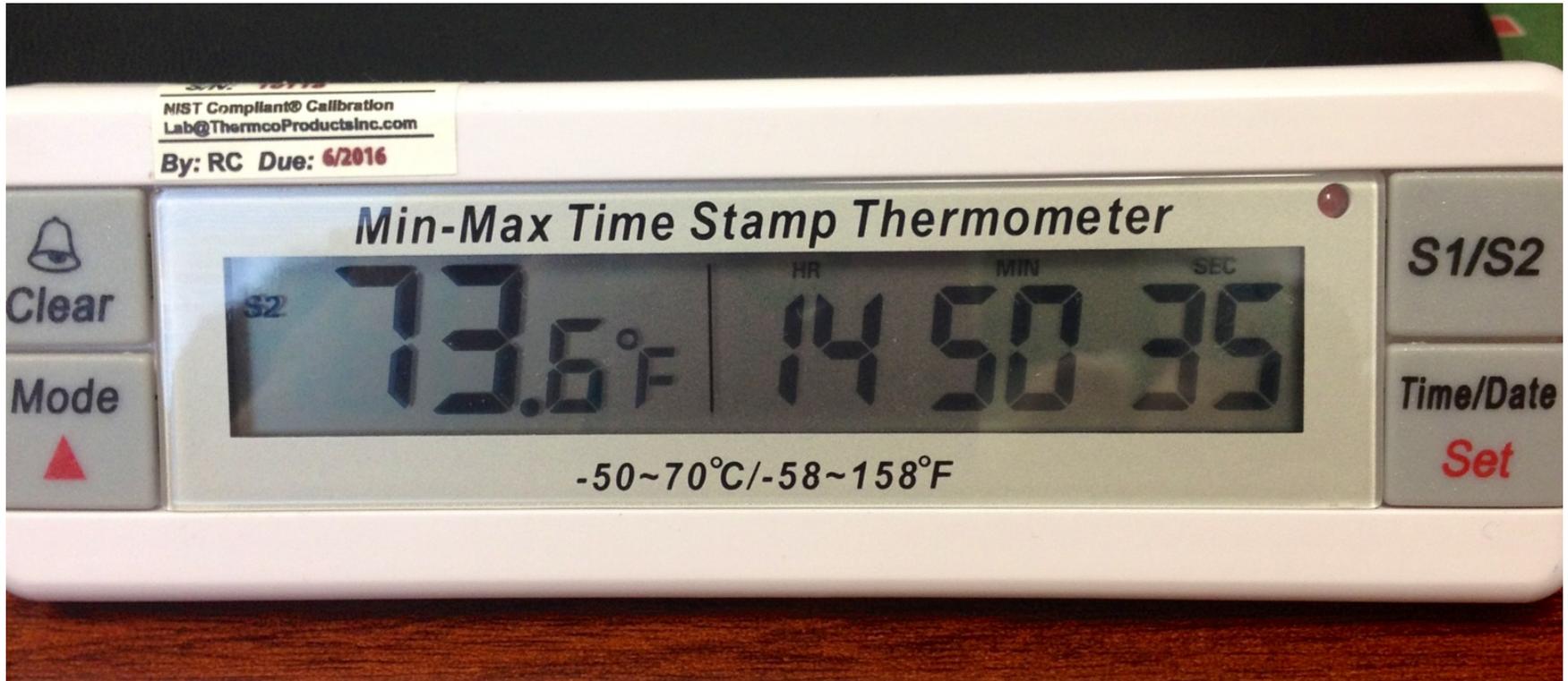
Storage and Handling 2

RECORDING MINIMUM AND MAXIMUM TEMPERATURES

Min/Max Daily Recording

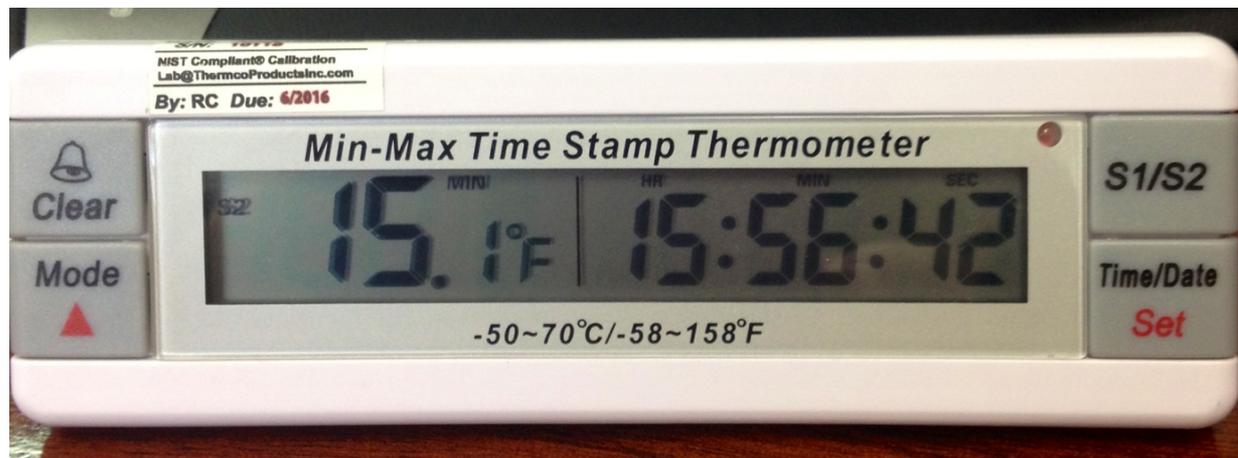
- Assess skill set of staff
- Provide education
- Practice, Practice, Practice

Min/Max Daily Recording



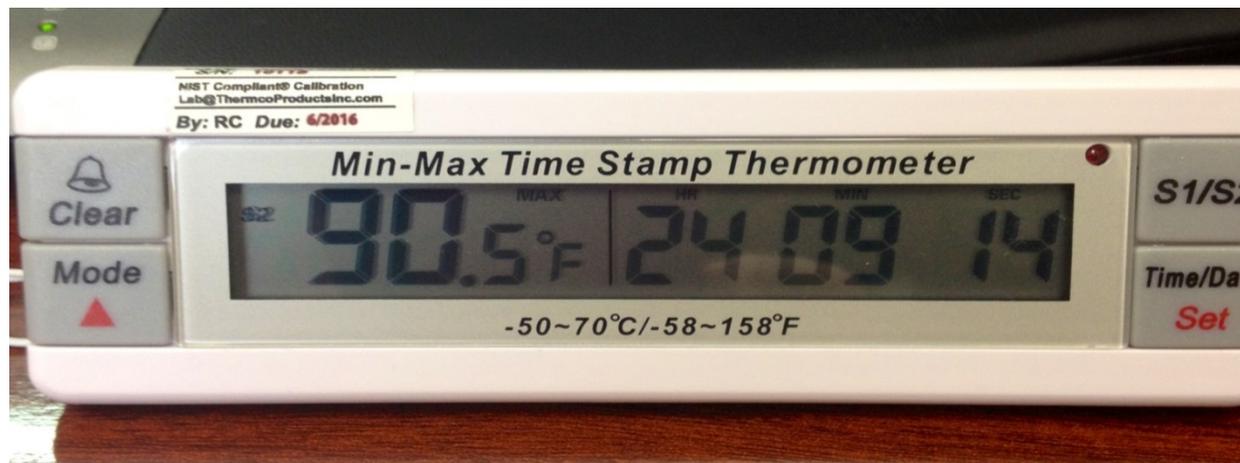
Min/Max Daily Recording

- Press (Mode) once to display the minimum measured reading and the time display will show when this minimum reading is recorded.
- Press (Time/Date) will show the date for the minimum measured reading



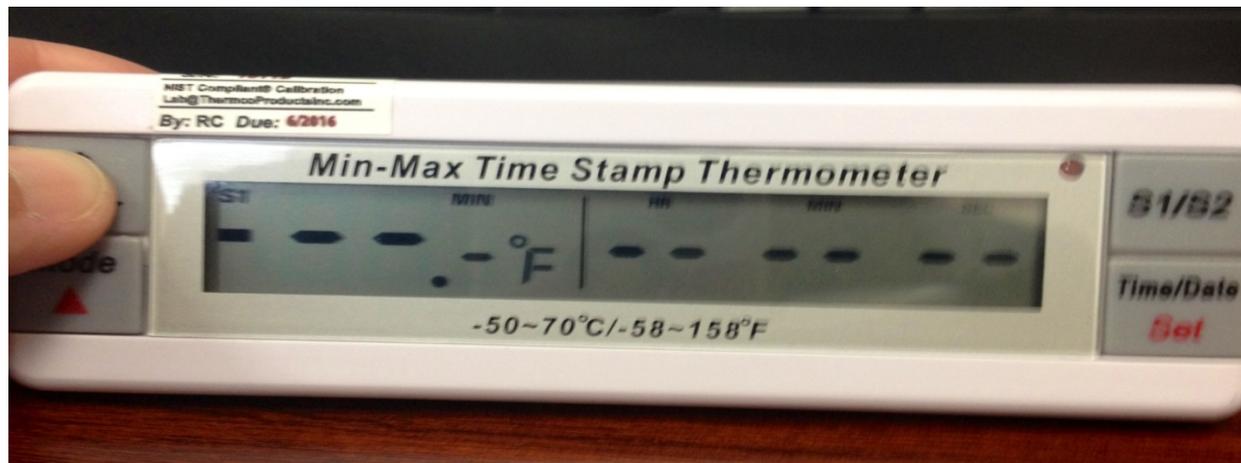
Min/Max Daily Recording

- Press (Mode) once to display the maximum measured reading and the time display will show when this maximum reading is recorded
- Press (Time/Date) will show the date for the maximum measured reading.



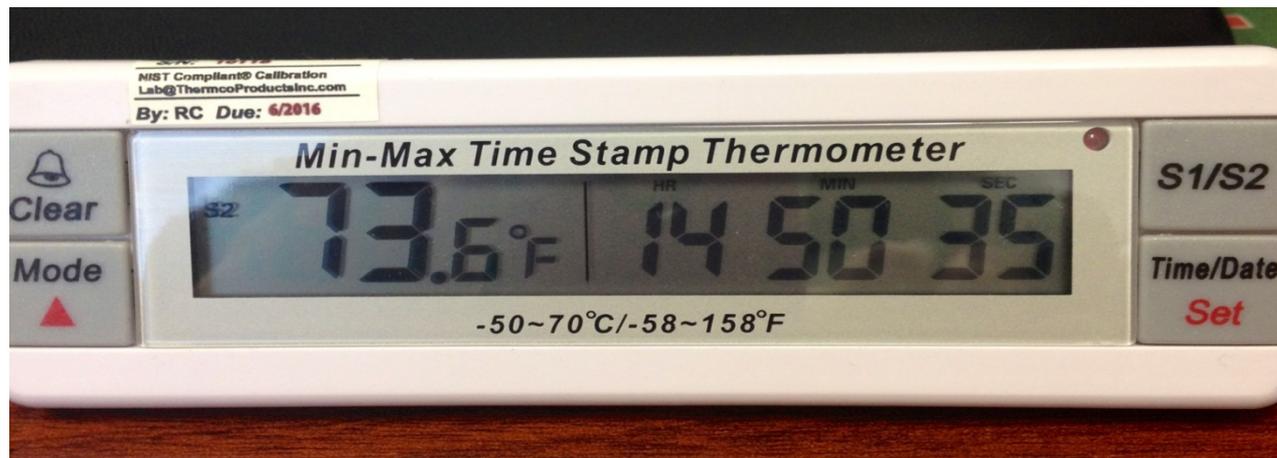
Min/Max Daily Recording

- Press (Mode) three times to return to normal display
- To clear the minimum and maximum reading memories, press (Clear) once during displaying the minimum and maximum reading.



Min/Max Daily Recording

- Clear the memory at the end of each work day
- Read and record the minimum and maximum temperature each morning



Storage and Handling 3

FUTURE OF THERMOMETER AND DATA LOGGER SUPPLIES

Thermometer and Data Logger Supplies

- New for 2015
 - TVFC will supply initial room thermometers for rooms with storage units
 - TVFC will supply initial back up thermometers for units
 - TVFC will furnish data loggers for HSR and LHD offices that store vaccine

Thermometer and Data Logger Supplies

- Continued for 2015
 - Supply thermometers to new providers
 - Replace expired thermometers

Storage and Handling 4

MONITORING TEMPERATURES AT OFF SITE CLINICS

Monitoring Temps at Off-Site Clinics

- Maintain cold chain at all times
- Keep container closed as much as possible
- Monitor and document temperatures hourly if vaccine is kept in cooler during off-site clinic

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