Disaster Plan: Library Materials

For the University of Toronto Library System

September 2023



Disasters

Disasters can occur in many different forms but the most common for a library is water damaged materials either as the aftermath of a fire or because of a flood.

The Disaster Plan for the University of Toronto is limited to procedures for removal and salvage of Central Library Collections. Its purpose is to minimize collection loss in the event of a disaster.

Table of Contents

Acknowledgements	2
1. Emergency Contacts and Notifications	3
2. Salvage Operations	
3. Post-Disaster Analysis	28
4. Prevention	29
5. Salvage Recovery Resources	30

Acknowledgements

Wellheiser, J. and Scott, J. *An ounce of prevention. Integrated disaster planning for archives, libraries, and record centres.* Second edition. Boston: Scarecrow Press, 2002. (Copyright held by Canadian Archives Foundation).

Bohem, Hilda. Disaster Prevention and Disaster Preparedness. Berkeley: UCLA; 1978.

Disaster Planning and Recovery: An SLA Information Kit. Washington, DC: Special Libraries Association; 1989.

Forston, Judith. Disaster Planning and Recovery. New York: Neal-Schuman; 1992.

Kahn, Miriam. Disaster Response and Prevention for Computer and Data. Columbus, Ohio; MBK Consulting; 1994.

Lundquist, Eric G. Salvage of Water Damaged Books, Documents, Micrographic and Magnetic Media.

San Francisco: Document Reprocessors; 1986.

1. Emergency Contacts and Notifications

September 2023

- 1. FIRE Police Emergency Centre at 416-978-2222 is automatically alerted when the fire alarm sounds.
- 2. OTHER DISASTER SITUATIONS Contact campus police at 416-978-2222 immediately. Campus Police and Library Security have a copy of the Master Manual. They will know how to get hold of key personnel.
- 3. The Salvage Operation Team Leader should prioritize what needs to be done. If water is still flowing and damaging the collection, protective sheeting should be put over the material while waiting for the disaster team to arrive. There are so many variables such as humidity and temperature that it is difficult to apply a firm set of procedures to any situation. This is why it is important that the disaster team is called immediately.

Should emergency conditions (fire, flood, etc.) damage any library collection, please notify the following people between 8:00 am and 4:00 pm Monday to Friday.

Loryl MacDonald at 416-978-7656

Christy Thomasson at 416-978-5069

After the hours listed above or weekends and holidays, please phone Campus Police at 416-978-2222. They will call the appropriate staff.

WHOM TO NOTIFY IN THE LIBRARY

COORDINATORS:

Loryl MacDonald

Associate Chief Librarian for Special Collections

416-978-7656

Christy Thomasson

Preservation Specialist

416-978-5069

Larry Alford

Chief Librarian

416-978-2292

Responsibilities

- 1. To direct staff on site and evacuate the building if necessary.
- 2. To help emergency personnel control situation.
- 3. To form Salvage Operation Teams (SOT) consisting of the Department Head of the affected area and other knowledgeable personnel.
- 4. The coordinator(s) should assess:
 - How great is the damage?
 - What types of material are involved?
 - What kind of damage e.g., fire, water, chemical etc.?
 - Take notes and photos of the damage.
 - Inform the insurance manager as soon as possible.
 - Decide what equipment is needed and order it from purchasing personnel at 416-978-6881

Chief Librarian and Senior Administration List, St. George Campus

University Chief Librarian	Larry Alford	416-978-2292
	<u>larry.alford@utoronto.ca</u>	
Deputy Chief Librarian	Julie Hannaford	416-978-1702
	j.hannaford@utoronto.ca	
Chief Administrative Officer	Glen Morales	416-946-7035
	g.morales@utoronto.ca	
Associate Chief Librarian for	Caitlin Tillman	416-946-3856
Collections and Materials	caitlin.tillman@utoronto.ca	
Management		
Associate Chief Librarian for	Loryl MacDonald	416-978-7656
Special Collections,	loryl.macdonald@utoronto.ca	
Director, Thomas Fisher Rare		
Book Library		
Associate Chief Librarian for	Mindy Thuna	416-978-6370
Science Research & Information	mindy.thuna@utoronto.ca	
- Interim Director, Gerstein		
Science Information Centre		
Associate Chief Librarian, Data	Marcel Fortin	416-978-7649
Services, Digital Scholarship,	marcel.fortin@utoronto.ca	
and Information Technologies		
Strategic Initiatives,	Laura Anderson	416-978-3353
Director	1.anderson@utoronto.ca	
Interim Associate Chief	Mindy Thuna	416-978-6370
Librarian for Gerstein Science	mindy.thuna@utoronto.ca	
Information Centre		
Director, Human Resources	Darlene Chow	416-978-7646
Director	darlene.chow@utoronto.ca	
User Services,	Monique Flaccavento	416-978-2898
Department Head	monique.flaccavento@utoronto.ca	
Director, Communications	Larysa Woloszansky	416-978-1757
,	larysa.woloszansky@utoronto.ca	
Manager, Security, Health &	Susan Gropp	416-978-1289
Safety,	susan.gropp@utoronto.ca	
Central Libraries		

Central Library Staff

Bindery, Central Libraries	Christy Thomasson Salvage contact	416-978-5069
	christy.thomasson@utoronto.ca	
Emergency services	safety@utsc.utoronto.ca	416-978-2222
	Mon Fri. 8:00am to 4:00 pm Call campus police evenings,	
	weekends, and holidays	
Business Manager	Julian Mitchell	416-946-3247
	julian.mitchell@utoronto.ca	
Operations and Building Services	Jason Carmichael	416-978-1396
Officer	jason.carmichael@utoronto.ca	
	Urgent requests	416-978-3000
Manager, Security, Health and	Susan Gropp	416-978-1289
Safety	susan.gropp@utoronto.ca	
Lead Hand, Library Patrol	John Corbin	416-946-3590
•	john.corbin@utoronto.ca	
Library Patrol	Robarts Library Patrol Office	416-946-3590
	Robarts Info Desk (to radio Patrol)	416-978-5093
	Gerstein Library Patrol Office	416-978-2516
	Gerstein Circulation Desk (to radio Patrol)	416-978-2280
Associate Chief Librarian for	Caitlin Tillman	416-946-3856
Collections and Materials	caitlin.tillman@utoronto.ca	
Collection Development/		
Management		
Cataloguing	Mara Class	417,079,2075
Metadata Services, Head	May Chan ms.chan@utoronto.ca	416-978-3075
Collection Development/	ms.chan@utoromo.ca	
Cataloguing		
Web Licensing and e-Resource	Weijing Yuan	416-978-0084
Acquisitions, Head	weijing.yuan@utoronto.ca	

University Personnel

Director, Campus Safety	Michael Munroe michael.munroe@utoronto.ca	416-978-7378
Campus Sarety	interact.mamocto,utoronto.ca	
Manager,	Steve Arnold	416-978-5151
Fire Prevention	steve.arnold@utoronto.ca	
Director, Risk	John D. Kerr	416-978-6478
Management and	jd.kerr@utoronto.ca	
Insurance		
Environmental Health	Office	416.978.4467
and Safety	ehs.office@utoronto.ca	

Field Supervisors for Caretaking

(For emergency repair or service request phone 416-978-3000)

Caretaking Office		416-978-6252
D. I.	I. G	416 046 0206
Robarts	Ivo Sousa	416-946-8306
	ivo.sousa@utoronto.ca	
	Fatima Costa	416-946-7140
	fatima.costa@utoronto.ca	
Caretaking Office		416-978-6252
Gerstein	Ivo Sousa	416-946-8306
	ivo.sousa@utoronto.ca	
	8:00 am - 4:00 pm Monday to Friday	
	6:30 am to 3:00 pm and Weekends	
	4:00 pm - 12:00 am and Weekends	
Robarts and Gerstein	Brent Warner	416-676-9278
Night caretaking	brent.warner@utoronto.ca	
Supervisor	11:00 pm to 7:15 am Monday night to	
	Saturday morning	

Mechanical Operations

Facilities & Services	John Walker	416-978-5064
Department	Manager, Mechanical Operations	416-978-7127
	jd.walker@utoronto.ca	

Local Library contacts

		44.6.050.0500
Architecture Landscape &	Cathryn Copper	416-978-3538
Design	Librarian	
1 Spadina Crescent	cathryn.copper@utoronto.ca	
Bora Laskin Law Library	Gian Medves	416-978-5537
78 Queen's Park	Chief Law Librarian	
	gian.medves@utoronto.ca	
Business (Milt Harris Library,	Sean Forbes	416-978-1924
Rotman School of Management)	sean.forbes@rotman.utoronto.ca	
105 St. George St.		
Chemistry Library (A D Allen)	Madeline Gerbig	416-978-3587
Rm 480, 80 St. George St.	maddy.gerbig@utoronto.ca	410-770-3307
Kill 400, 80 St. George St.	maddy.gerorgta/atoronto.ea	
Cheng Yu Tung East Asian	Hana Kim	416-978-7690
		410-978-7090
Library	hn.kim@utoronto.ca	
8th Floor, 130 St. George St.	1 TT 1'1 1	416.070.0212
Engineering & Computer	Angela Henshilwood	416-978-8212
Science Library	angela.henshilwood@utoronto.ca	
10 King's College Road		
Rm 2402, 2nd floor		
Sandford Fleming Building		
Gerstein Science Information	Mindy Thuna	416-978-6370
Centre	mindy.thuna@utoronto.ca	
7-9 King's College Circle		
Harry R. Abbott Dentistry	Helen Yueping He	416-864-8213
Library	Helen.He@dentistry.utoronto.ca	
124 Edward St.	Maria M. Zych	416-864-8212
12 1 20 1 01 0 2 0	maria.zych@dentistry.utoronto.ca	110 00 1 0212
John P. Robarts Library for the	Monique Flaccavento	416-978-1867
Humanities and Social Sciences	User Services,	410-270-1007
130 St. George St.	Department Head	
130 St. George St.	monique.flaccavento@utoronto.ca	
Man and Data Library		416 070 1050
Map and Data Library	Leanne Trimble	416-978-1958
130 St. George St.	Acting Head	
5th floor	leanne.trimble@utoronto.ca	11.5.270.0.521
Mathematics	Bruce Garrod	416-978-8624
Bahen Centre for Information	Mathematics Librarian	
Technology	bruce.garrod@utoronto.ca	
40 St. George St.		
6th floor room 6141		
Media Commons	Loryl MacDonald	416-978-7656
130 St. George St.	loryl.macdonald@utoronto.ca	
3rd floor		
Music Library	Jan Guise	416-978-6920
80 Queen's Park Circle	Head	
	jan.guise@utoronto.ca	
Noranda Earth Sciences Library	Bruce Garrod	416-978-3538
5 Bancroft Ave.	Head Earth Sciences Library	100,700000
5 Bandrott 11vc.	bruce.garrod@utoronto.ca	
	orace.garrou(w,atoronto.ca	

OISE/UT Library	Jenaya Webb	416-978-1905
252 Bloor St. W.	Director, OISE Library	
	jenaya.webb@utoronto.ca	
Petro Jacyk Central & East	Ksenya Kiebuzinski	416-978-1288 (M-W)
European Resource Centre	ksenya.kiebuzinski@utoronto.ca	416-978-4826 (Th-F)
130 St. George St.		
Rm. 3008		
Richard Charles Lee	Maria Lai Che Lau	416-946-3892
Canada-Hong Kong Library	Director	
130 St. George St.	laiche.lau@utoronto.ca	
8th floor		
Thomas Fisher Rare Book	David Fernandez	416-978-7741
Library, including the	Head, Department of Rare Books and	
	Special Collections	
	david.fernandez@utoronto.ca	
University of Toronto Archives		416-978-7658
120 St. George St.	Tys Klumpenhouwer	
	University Archivist	
	t.klumpenhouwer@utoronto.ca	
UTL (University of Toronto	Kyla Everall	416-978-1745
Libraries) at Downsview	User Services Librarian and	
	Downsview Coordinator	
	kyla.everall@utoronto.ca	

Property Managers

Architecture Landscape &	Ronald Shakespeare	416-578-5473
Design	ronald.shakespeare@utoronto.ca	
1 Spadina Crescent		
Bora Laskin Law Library	Ronald Shakespeare	416-578-5473
78 Queen's Park	ronald.shakespeare@utoronto.ca	
Business Information Centre	Rachel Tennant	437-226-0374
(BIC)	rachel.tennant@utoronto.ca	
105 St. George St.		
Chemistry Library (A D Allen)	Marcelo Lima Figueiroa	416-717-9650
Rm 480, 80 St. George St.	marcelo.lima@utoronto.ca	
Cheng Yu Tung East Asian	Nicole Wilkinson	416-978-2323
Library	nicole.wilkinson@utoronto.ca	
8th Floor, 130 St. George St.		
Engineering & Computer	Doug Graham	416-978-2323?
Science Library	doug.graham@utoronto.ca	
10 King's College Road		
Rm 2402, 2nd floor		
Sandford Fleming Building		
Gerstein Science Information	Nicole Wilkinson	416-528-7938
Centre	nicole.wilkinson@utoronto.ca	
7-9 King's College Circle		

Harry R. Abbott Dentistry	Willy Wong	416-717-9694
Library	willyl.wong@utoronto.ca	
124 Edward St.		
John P. Robarts Library for the	Nicole Wilkinson	416-978-2323
Humanities and Social Sciences	nicole.wilkinson@utoronto.ca	
130 St. George St.		
Map and Data Library	Nicole Wilkinson	416-978-2323
130 St. George St.	nicole.wilkinson@utoronto.ca	
5th floor		
Mathematics	Doug Graham	416-989-2323
Bahen Centre for Information	doug.graham@utoronto.ca	
Technology		
40 St. George St.		
6th floor room 6141		
Media Commons	Nicole Wilkinson	416-978-2323
130 St. George St.	nicole.wilkinson@utoronto.ca	
3rd floor		
Cold Storage		
321 Bloor St. W.	Christina Carydis	416-526-5542
	christina.carydis@utoronto.ca	
Music Library	William Hsia	416-428-8430
80 Queen's Park Circle	william.hsia@utoronto.ca	
Noranda Earth Sciences Library	Jennifer Corinthios	416-717-9978
5 Bancroft Ave.	jennifer.corinthios@utoronto.ca	
OISE/UT Library	Tony Marziliano	416-717-9804
252 Bloor St. W.	tony.marziliano@utoronto.ca	
Petro Jacyk Central & East	Nicole Wilkinson	416-978-2323
European Resource Centre	nicole.wilkinson@utoronto.ca	
130 St. George St.		
Rm. 3008		
Richard Charles Lee	Nicole Wilkinson	416-978-2323
Canada-Hong Kong Library	nicole.wilkinson@utoronto.ca	
130 St. George St.		
8th floor		
Thomas Fisher Rare Book	Nicole Wilkinson	416-978-2323
Library, including the	nicole.wilkinson@utoronto.ca	
University of Toronto Archives		
120 St. George St.		
UTL at Downsview	Anthony Wright	416-989-8789
	anthony.wright@utoronto.ca	

External Salvage Experts

Conservator, Provincial	reference@ontario.ca	416-327-1600 /1-800-668-9933
Archives of Ontario		
Canadian Conservation Institute	iccservices-	613-998-3721 /1-866-998-3721
	cciservices@pch.gc.ca	

2. Salvage Operations

Access and Commencement of Salvage Operations

The coordinators will form salvage teams consisting of the head of the affected area and other knowledgeable personnel.

Access to buildings will be authorized by either the coordinators of the operation or by one of the senior managers of the Library in consultation with the fire department or other emergency authorities.

Press releases and interviews will be taken care of by Strategic Communications 416-978-3353.

Before beginning the salvage operation, the SOT (Salvage Operation Team) will:

- 1. Decide who will take overall charge of the salvage operation.
- 2. Decide who will lead the Library Operations and the Physical Plant operations.
- 3. Assess the extent of the damage.
- 4. Assess the type of materials involved.
- 5. Assess the kind of damage e.g., clean, or dirty water, etc.
- 6. Record damage using notes and camera.
- 7. Inform University Insurance Manager.
- 8. Decide what equipment is needed and order it.
- 9. Prepare a workspace for processing damaged materials. The work surfaces should be either Formica or covered with clean polyethylene sheeting.

Control the Environment

Try to control the temperature and humidity to reach a temperature of 18.3 C or less and relative humidity of 50% or less.

Temperature Control

In summer;

- Seal all broken windows.
- If possible, keep the air conditioning running at 18 C

In winter:

- Turn off all heat.
- Leave windows open if possible.
- Protect pipes from freezing to prevent damage from burst pipes.

Humidity Control

- Use portable dehumidifiers if necessary.
- Circulate the air, using portable fans.
- Mop up standing water.

Mold

The occurrence of mold and mildew may constitute a disaster situation or may be the result following a flood or fire. By reducing the temperature and humidity one can reduce the risk of mold growth and thus buy time for the recovery operation. Air circulation must be increased to eliminate stagnant air pockets. Excess water must be pumped out and all wet debris must be removed.

In the development of mold or mildew;

- Immediately transfer all infected materials to a self-contained room.
- The affected area should immediately be cleaned and sterilized, including the climate control system where possible.
- Consult with Christy Thomasson at 416-978-5069 when dealing with suspected or any affected materials.

Removal and Packing of Materials

When handling damaged materials, observe the following:

- Do not open or close wet books.
- Do not separate single sheets.
- Do not remove book covers.
- Do not press wet books or paper.
- Do not wipe off mud and dirt.

Removal Procedures

Books should be removed by human chain in exact condition in which found. Human chain should consist of:

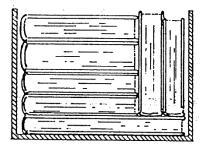
- 1. Team of removers.
- 2. Team of sorters which sort books into types of damage and treatment.
- 3. Team of record keepers.

The number of people in each team should be balanced to create an even workflow and to prevent bottlenecks.

Remove first:

- Wet materials lying on the ground.
- Wet or damp books on lower shelves (unless mold is forming)
- Wet or damp books on upper shelves (unless mold is forming)

Books should be boxed either flat or spine down to minimized damage to binding and costly repairs. Pack books of the same size next to one another to minimize warping. Do not stack boxes over four high as they tend to collapse once the cardboard box absorbs water from the wet books. Shrink wrap the stacked boxes on skids to minimize transit damage.



"Wet" box should be packed FLAT or SPINE DOWN



Do not pack wet books like this. Wet books will sag causing permanent damage. Spine up causes the binding to sag and tear.

Preparation for Removal and Treatment

Packaging and Wrapping



- Wrap bound volumes in freezer paper, wax paper, or silicone paper so that the books won't stick together.
- Keep sheet material e.g., manuscripts, records, unframed prints, and drawings etc. in sections not more than 5 cm thick with a base support (.128 board).

Crating or boxing

- Use plastic milk crates or, if not available, strong cardboard boxes such as library book bindery boxes. (Tote boxes available in the bindery only to be used if material is not going for freeze drying and to be opened immediately at destination)
- Pack books FLAT or SPINE DOWN.
- Do not pack too tightly. Allow for air circulation.
- Put an identification mark on each container.

Transportation

- When boxed, put material immediately into refrigerated trucks.
- If this is not possible, pack dry ice around the material or keep as cold as possible.
- Transport to freezing facility without delay.

Treatment

Cleaning and Washing of Collection Material (paper)

THIS SHOULD NOT BE ATTEMPTED WITHOUT THE ADVICE OF THE SALVAGE CONTACT.

All cleaning and washing must be carried out by trained personnel. No cleaning or washing should take place if it increases the delay in freezing.

DO NOT ATTEMPT TO WASH OPEN VOLUMES, MANUSCRIPTS, ART ON PAPER, PHOTOGRAPHS OR ANY MATERIAL CONTAINING WATER SOLUBLE MATERIALS.

Freezing

Freezing is an effective method for stabilizing conditions until drying can be attempted. Mold will start to form in 12-48 hours (about 2 days) if left unfrozen. Freezing buys time in a major disaster to assess the next steps to be taken.

Coated paper MUST be frozen as soon as possible.

If the number of books affected is small, freezing can be done in local freezers.

Drying

For materials which have been in freezer facilities freeze drying is the least expensive for large collections.

Air Drying

If the number of books affected is small, drying can be done without freezing.

The work area for air drying should be clean and have adequate temperature and humidity controls. Fans and dehumidifiers should be used, as necessary.

Books should be placed upright on a clean surface and fanned out.

If any of the books show any signs of mold developing on them, they should be treated as soon as possible. (Do not attempt this without advice from C. Thomasson 416-978-5069.

Treatment of Non-paper Materials

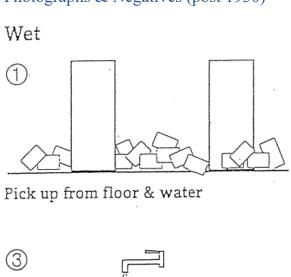
Photographs and Negatives (post 1950)

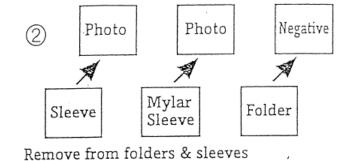
If wet:

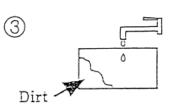
- 1. Pick up photographs and negatives from water.
- 2. Separate photographs and negatives from sleeves. Photographs and negatives will stick to surfaces if allowed to dry by themselves.
- 3. Rinse off any dirt with cold water. DO NOT RUB
- 4. Set up fans, dehumidifiers and keep temperatures cool. Keep the area as dry as possible.
- 5. Hang photographs and negatives on monofilament with plastic clothes pins.
- 6. Photographs can be dried flat. Place face up on a clean, white blotter or blank newsprint. Change paper as needed. Let photographs dry for up to 48 hours (about 2 days).
- 7. Relabel sleeves before putting photographs and negatives back.

CAUTION: Pre 1950 photographs and negatives require careful handling! Do not immerse negatives in water without explicit instructions from a film/photograph conservator.

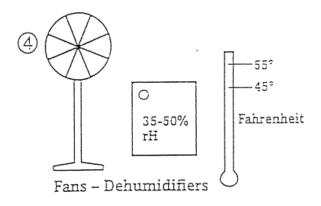
Photographs & Negatives (post 1950)

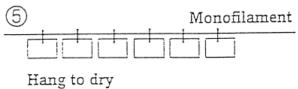


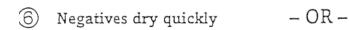


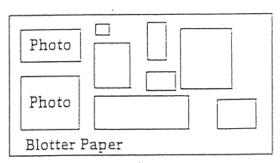


Rinse in water if dirty

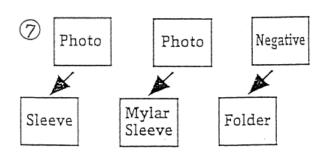




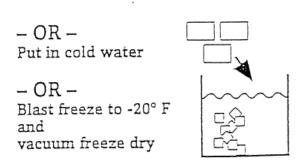




Dry photographs face up for 48 hours



Refile in archival sleeves & folders

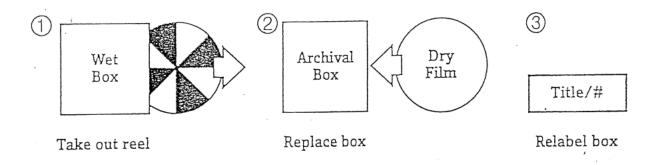


Microforms

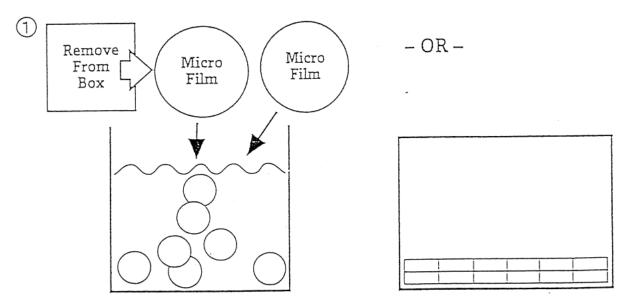
- 1. Take microforms out of sleeves. If the fiche or paper sleeve sticks, soak in cold water.
- 2. Put in polyethylene bags and put into plastic garbage cans (not metal) under clean, cold running water. Microform will survive thus for up to 72 hours (about 3 days). Immediately arrange to send for cleaning and drying.

Microfilm

Dry Film -



Wet Film -

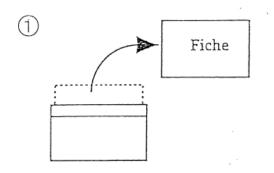


Put in plastic container with cold water - send to be reprocessed

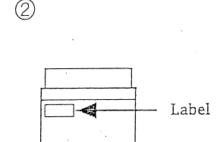
Box and blast freeze to -20°F then freeze dry

Microfiche

Dry Fiche –

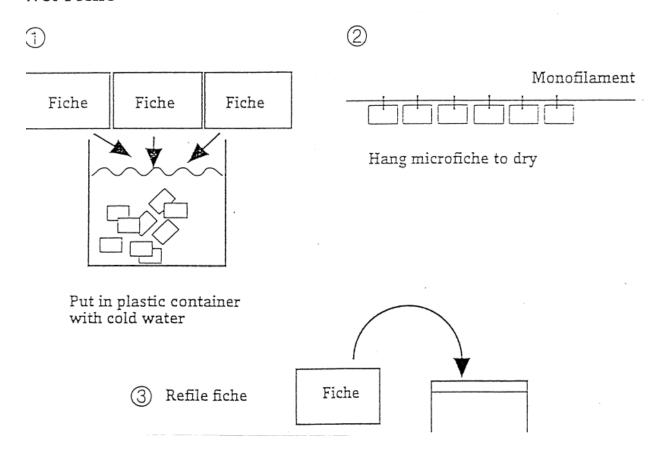


Take out microfiche



Label new archival sleeve

Wet Fiche -



Film and Plates

If possible, they should be stored flat in trays of water until they can be properly washed and dried. Generally, try to salvage only those prints for which negatives are not available and prints which are not badly stained.

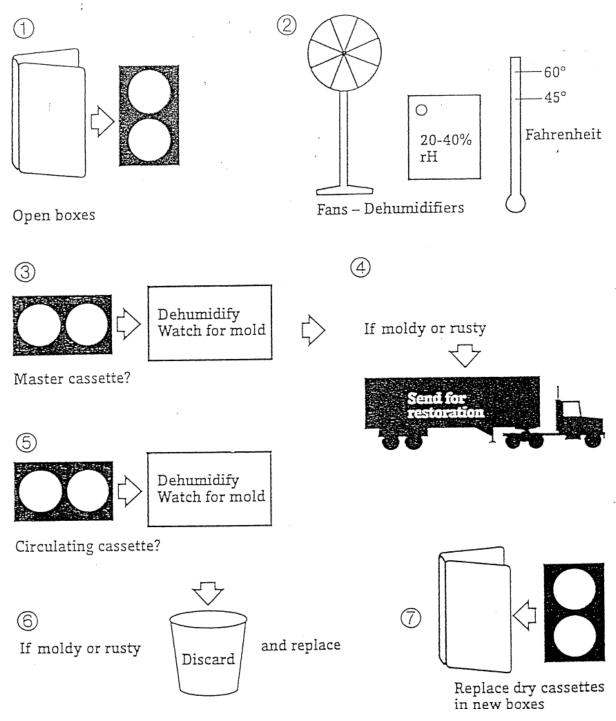
Audio and Video Cassettes

Audio and video tape is easily damaged by water, mold, dirt, and dust. Most audio and video cassettes are stored in plastic boxes that are watertight. Remove tapes from a moist environment as quickly as possible. Tape will stick together if allowed to dry by itself.

DO NOT FREEZE

- 1. Open boxes.
- 2. Set up fans, dehumidifiers and keep temperatures cool. (RH 20% 40% and 7-16 C.)
- 3. If treating a master tape, dehumidify and carefully watch for mold growth. If mold growth or rust forms or window clouds, then send for restoration.
- 4. If treating a circulation tape, dehumidify and watch for mold growth or window clouding. If it is moldy or rusty then throw it out and replace.

Audio and Video Cassettes



Disks and Diskettes

3.5" Disk

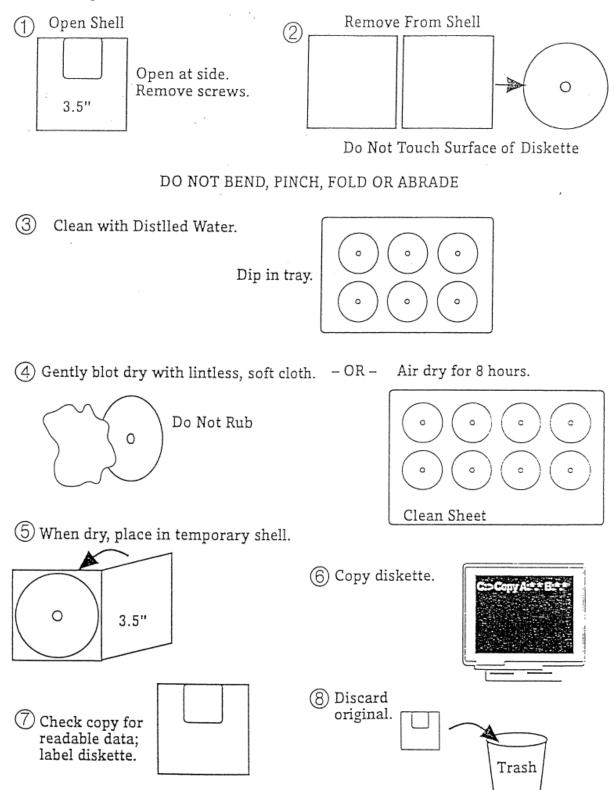
Stabilize within 48 hours (about 2 days) to prevent mold.

- 1. Open shell carefully. Remove screws if present.
- 2. Remove diskette from shell.
- 3. DO NOT FOLD, BEND, PINCH OR ABRADE THE DISK.
- 4. DO NOT TOUCH SURFACE.
- 5. Use clean, distilled water to remove debris from the surface of the disk.
- 6. Gently blot surface with clean, soft, lint less cloth or lay flat on clean cloth to air dry.
- 7. When dry, place in temporary shell.
- 8. Copy disk. Remember to check the integrity of the transferred data.
- 9. Discard the original.

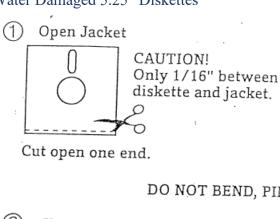
5.25" Disk

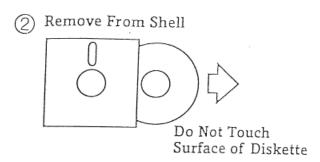
- 1. Remove disk from paper, plastic, and Tyvek sleeves.
- 2. Cut open carefully.
- 3. Remove disk from jacket.
- 4. DO NOT FOLD, BEND, PINCH OR ABRADE THE DISK.
- 5. DO NOT TOUCH SURFACE.
- 6. Use clean, distilled water to remove debris from the surface of disk.
- 7. When dry, place in temporary shell.
- 8. Copy disk. Remember to check the integrity of the transferred data.
- 9. Discard the original.

Water Damaged 3.5" Diskettes

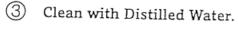


Water Damaged 5.25" Diskettes

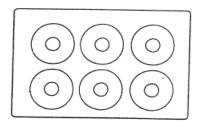




DO NOT BEND, PINCH, FOLD OR ABRADE



Dip in tray.



Gently blot dry with lintless, soft cloth. - OR - Air dry for 8 hours.



O O O O Clean Sheet

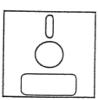
(5) When dry, place in temporary shell.

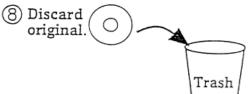


6 Copy diskette.



Check copy for readable data; label diskette.





Water Damaged CD_ROM and Optical Disks

TREAT IMMEDIATELY

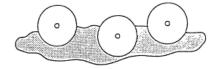
- 1. Remove from water immediately.
- 2. Remove from container.
- 3. DO NOT BEND OR SCRATCH.
- 4. Rinse off any dirt with clean, distilled water.
- 5. DO NOT SOAK.
- 6. Drip dry in dish drainer or rack, vertical, not flat.
- 7. Clean with soft, dry, lint less cloth.
- 8. Move cloth perpendicular to the grooves, left to right, up and down.
- 9. DO NOT MOVE IN CIRCULAR MOTION.
- 10. Place cleaned compact disks in clean containers.

Replace the disk if:

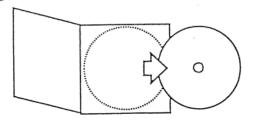
- Mold or condensation forms on disk.
- There are deep scratches on the surface.
- Disk is not readable or playable.

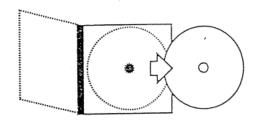
Water Damaged Optical Disks

1 Remove from water ASAP!



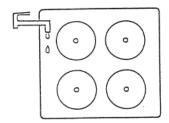
(2) Remove from cases and cartridges.



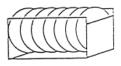


DO NOT BEND OR SCRATCH

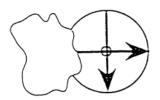
(3) Rinse off debris with clean water.



DO NOT SOAK! DRIP DRY.
Vertical, not flat.



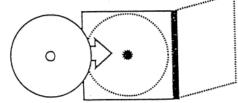
(5) Clean with soft, lintless cloth. WIPE PERPENDICULAR TO GROOVES.

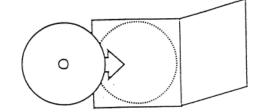




Not in circular motion!

(6) Place in clean containers.





Treatment of affected area

After the material has been removed for salvage, if the area is determined to be still usable and safe it must be cleaned thoroughly before library material is replaced.

- 1. Wash the shelving with soap, water, and a disinfectant such as liquid Lysol.
- 2. Wash walls, furniture, solid surface floors such as terrazzo or wood, and counters etc. as above.
- 3. Scrub stone walls.
- 4. Paint where necessary.
- 5. Shampoo carpets and apply spray disinfectant.

Return of Material to the Library

When dry and treated as applicable, books should be sorted as to whether they need;

- Discarding or replacing.
- Commercial rebinding.
- In-house mending.
- More extensive conservation treatment.

When the material is returned it should be kept apart from the main collection in a ventilated and air conditioned "rehabilitation area" for six months. The atmospheric conditions should be 35-40% RH and a temperature not above 18C. A random inspection for mold-infested material should be conducted daily. Towards the end of this time the temperature should be gradually changed to duplicate conditions in the stack area to which materials are returning. After the materials are returned to the stack area random monitoring should be continued for at least one year.

Insect Infestations

- 1. In the case of insect infestations, the best practice is to immediately seal the books individually in zip lock bags. (available from the Bindery) Barcodes need to be visible.
- 2. Place the sealed bag into a plastic bin.
- 3. Call the Bindery at 416-978-5069.
- 4. Staff in the Bindery will determine what treatment will follow.

3. Post-Disaster Analysis

A post-mortem should be held to determine "what went wrong," and "what went right". A report should be written on the recovery operation and submitted to the Chief Librarian and others as directed. It is inevitable that unforeseen situations occur. Once the assessment is complete, the Disaster Plan should be amended to reflect any identified inadequacies. Finally, please remember that appreciation and recognition must be given to the individuals who helped in the success of the recovery operation.

4. Prevention

Preventive conservation does not always require expensive or complex care strategies. Much can be done by applying common sense.

Regular checks should be made as a preventive measure for:

- Frayed electrical cords.
- Water leaks.
- Weather damage.
- Garbage or hazardous chemicals lying about.
- Problems with heating, air conditioning and electrical systems.
- Equipment/machinery unplugged when not in use.

Routine security checks should be made at closing time for:

- Equipment turned off.
- Still burning cigarettes and other hazards.

All staff should be aware of the physical layout of their building.

(Floor plans can be printed from https://updc.utoronto.ca/campus-facilities-planning/building-plans/)

5. Salvage Recovery Resources

Book Drying		
Polygon Property Restoration & Climate Solutions\Polygon Après Sinistre & Solution Climatique	30 Admiral Blvd., Toronto, ON	Emergency 24/7 1-888-702-4782 Office: 905-858-5894
Cardboard Cartons		
In stock Library stores and Bindery Sizes 16" x 10" x 10"		416-978-6881 416-978-5069
Carpet Shampoo		
Caretaking (Robarts)	Hours: 9:00am - 5:00pm 4:00 pm - 12:30 pm	416-978-6252 416-978-0456
Dehumidification		
Bindery (limited scale) Polygon (see book drying above)		416-978-5069
Disinfectant		
		416.070.6252
In stock Facility and Services Document Reprocessors		416-978-6252
Document Reprocessors www.documentreprocessors.co m	40 Railroad Ave. Rushville, N.Y	1-800-437-9464
Freeze Dry		
Lisa Horwarth Free Dry Foods Ltd.	2916 South Sheridan Way Suite 300 Oakville, ON	905-844-1471
Freezer paper, newsprint		
Adelco Glenford Lewis Group	3221 McNicoll Ave Scarborough, ON	1-905-795-7500
Freezer Plant		
Freezer Trucks		
Ryder Truck Rental Canda	672 Kipling Ave. Toronto, ON	416-255-4427
Thermo-King of Toronto	6243 Netherhart Rd. Toronto, ON	905-564-2800 905-458-5555

Mops		
Caretaker		416-978-6252
Polygon		110 770 0232
		1-888-702-4782
Polygon: Water Damage		
Recovery Services (see Book		
Drying - previous page)		
Paper Towels		
Caretaker		416-978-6252
Polyethylene Sheeting		
In stock, Procurement office and		416-946-3247
Bindery		416-978-5069
Transportation		
	542 M. Pl P 1	416 022 0505
Consolidated Moving & Cartage	542 Mt. Pleasant Rd.	416-922-9595
Water Entraction Devening	Toronto, ON	
Water Extraction Pumping		
Polygon: Water Damage		
Recovery (see Book Drying -		
previous page)		416-978-5069
Bindery, limited scale		710-770-3007

(Library specific floor plans can be printed from https://updc.utoronto.ca/campus-facilities-planning/building-plans/)