



The Big Picture

- **Meets** the purpose of the Organization
 - To maintain and preserve mutually agreeable water levels through acquisition [and operation] of the Thomas Pond Dam, and to act relative to the repair and on-going maintenance of said dam.
- **Meets** the objectives set forth in Board Order
 - *The association shall develop a written Water Level Management Plan designating who is responsible for operating the dam and describing how the dam is to be operated under a variety of likely water level/meteorological occurrences. The plan should be updated regularly as experience is gained in managing the water levels of Thomas Pond and Dingley Brook.*
- **Aims** to stay within mutually agreeable water level range as much as possible
- **Addresses** findings from Survey

Major Highlights

- **Adds** new off-season low target level
- **Incorporates** guidance from DEP
 - Minimum Flow = Aquatic Base Flow $\cong$ 1.2 cf/s
 - Maximum Flow = 12" **in Spring**, uncapped otherwise
- **Experience** based
- **Guides** Dam Keeper flow management practices
 - **Different** flows for various conditions
 - **Directs** greater flows in response to rising or high water level
- **Sets** fixed periods for raising and lowering pond levels

Summary of Plans

Levels & Flows	Original Plan	New Plan Changes	Comments
In-Season High	-17"		
In-Season Low	-20"		
Off-Season Draw down	≤ -24"	-27"	New plan matches current practice
Off-Season High	-24"		
Off-Season Low	<i>Undefined</i>	-30"	Sets new minimum target
Min Flow Min Normal Flow	2.4 cf/s N/A	=A.B.F. $\cong$ 1.2 cf/s 2.4 cf/s	Per MDEP Board Order & Guidance
Max Flow Spring	12"		Except due to natural conditions
Max Flow (non-Spring)	<i>Undefined</i>	<i>18" pre-flood</i> <i>30"+ extreme conditions</i>	MDEP says no limit
Raise; Lower	<i>Implied "spring"</i> <i>"October"</i>	3/16 to 4/30 Columbus Day+1 to 11/15	"spring" probably 3/15 to 5/15

Summary of Plans (2)

Guidance For	Original Plan	New Plan	Comments
Spring raise		Yes	
Fall draw down		Yes	
Low pond levels		Yes	
Dry conditions		Yes	
High pond levels		Yes	
Response to precipitation events		Yes	
Response to possible flooding		Yes	
Flows during normal operation	Min & Max	Multiple	Flows for various conditions defined
Dam Keeper responsibilities	<i>Some</i>	Yes	Plus detailed position description
Dam monitoring	Fixed Frequency	Variable Frequency	Frequency of monitoring based on conditions
Notification requirements		Yes	
Supervision	<i>TPIA President</i>	Multiple	More structure in place to ensure management to plan involving multiple roles.