

STORMWATER MANAGEMENT FOR NORWOOD

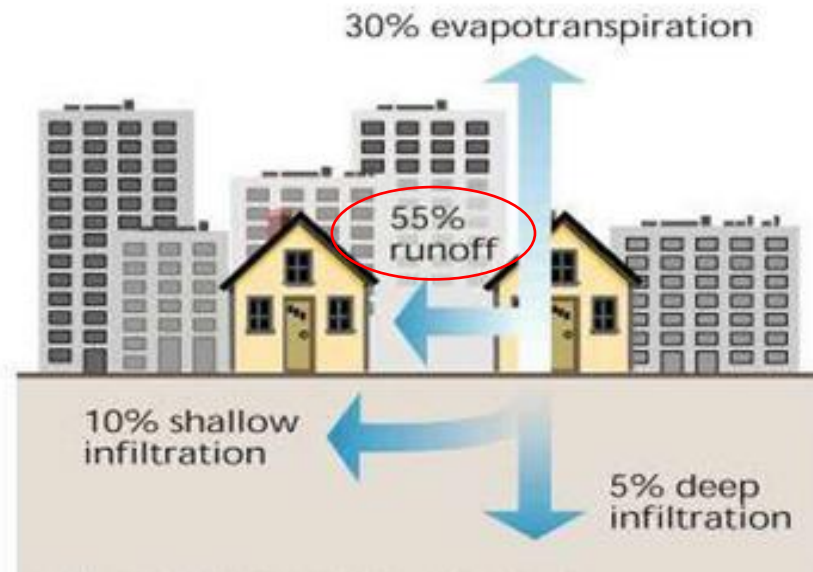
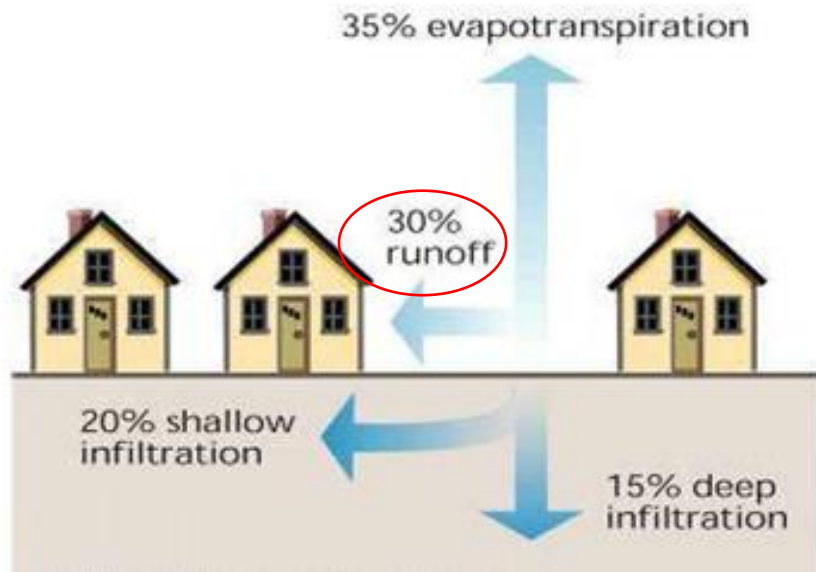
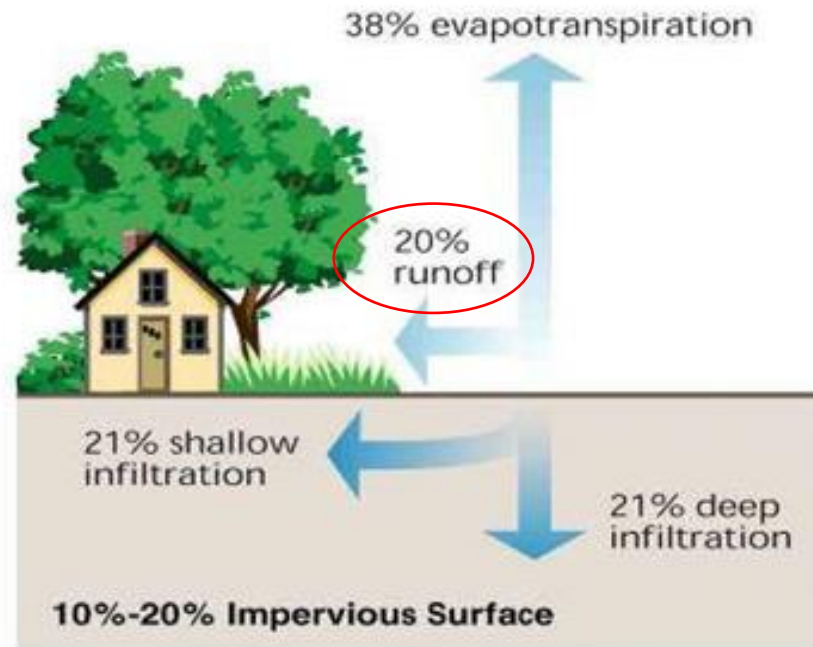
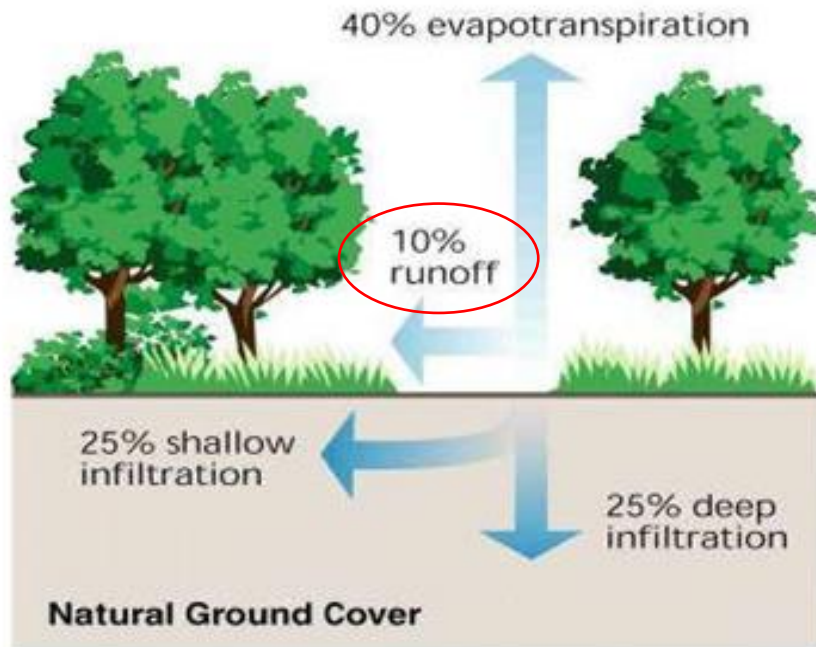
**Ad Hoc Stormwater Utility Study Committee
Presentation to Finance Committee
and
Capital Outlay Committee
May 24, 2023**

Objective tonight:

The discussion this evening is to provide as much information as possible to the residents of Norwood regarding where the Stormwater Committee work stands, the current needs of the town, and the various methods for achieving them with respect to stormwater management over the next 10 years..

Members of Stormwater Study Committee

- Jerry Hopcroft, Chair, civil and environmental engineer
- Heather Audet, resident, civil engineer
- Alan Slater, Finance Commissioner
- Bob Donnelly, Selectman, Capital Outlay Committee member
- Mark Ryan, Director, DPW and Town Engineer
- Holly Jones, Conservation Planner
- Mike Rosen, Assistant General Manager
- Technical Support and Assistance provided by CDM Smith



Effects of Failing to Properly Manage Stormwater

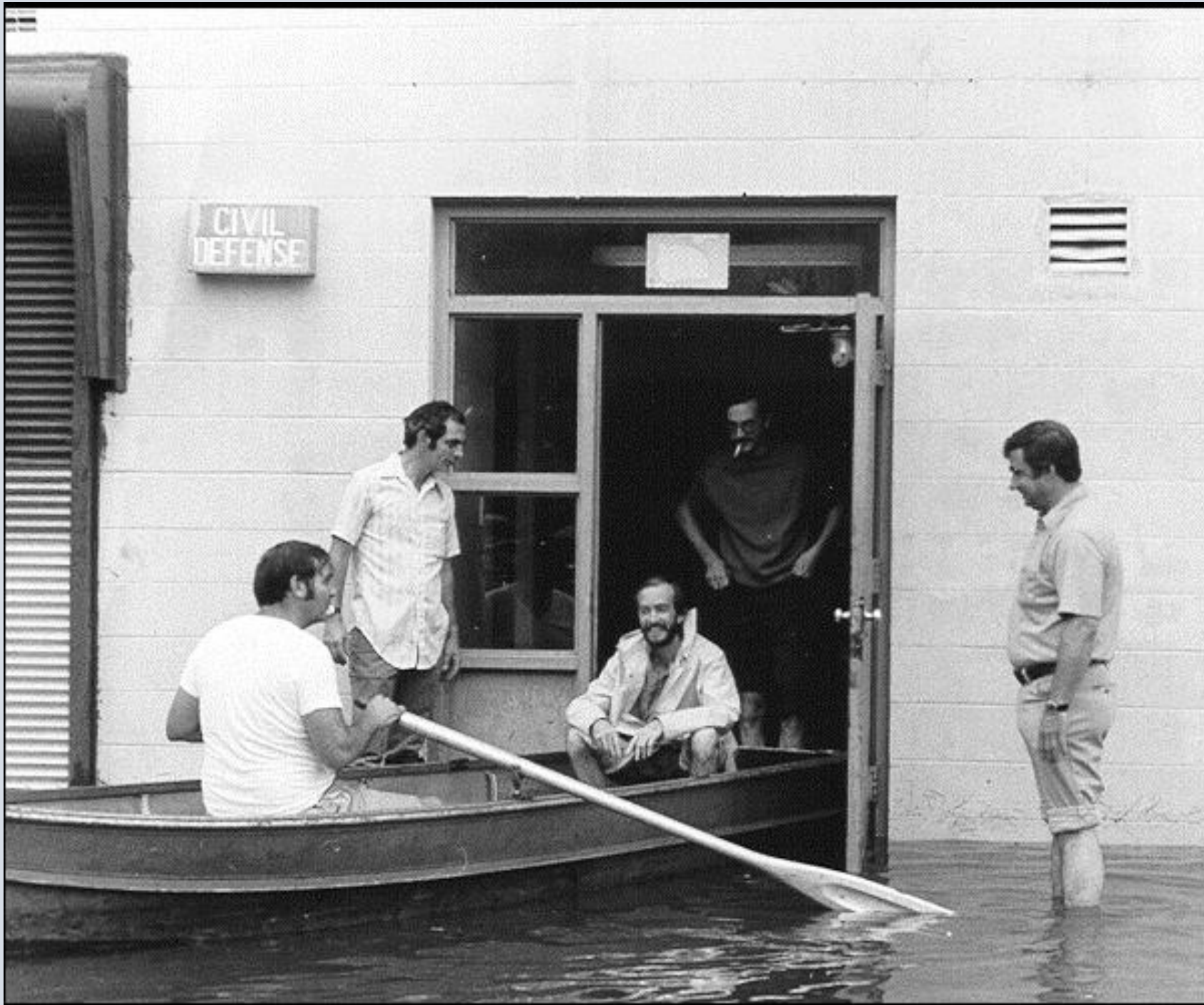
Flooding

Economic Hardship

Housing disruptions

Property Damage

Infrastructure Damage



Patrolman Joe Tessicini at left, Det, Dom Fruci at right, Det. William Casey and Asst. TM Bernie Cooper in boat. Fifth man is not identified in this photo from a 1980s flood at the Public Safety Building



Federal and State Requirements

- Wetlands Protection Act
- Stormwater Standards and Handbook
(Revisions expected soon)
- MS4 Requirements

Local Requirements in Norwood

- Wetlands Protection bylaw
- Board of Health regulations
- Subdivision regulations
- Site plan review
- Zoning regulations
- Water Resource Protection District
- MS4 Bylaw and Regulations

Current Issue:

Norwood has identified engineering solutions to deal with its stormwater challenges

The challenge now is to recommend a funding and implementation plan

Conduct public information sessions to provide input to and feedback from Town residents

Note that homeowners, businesses,
and the town all have responsibilities
for effective management of
stormwater

Property Owners and Businesses Have a Variety of Options and Responsibilities

- Reduce impervious areas
- Maintain proper vegetative cover
- Prevent sump pump discharges from entering storm drains
- Pay attention to runoff areas and install erosion control measures

Municipal Responsibility Options

Provide and maintain adequate storm drain systems

Use of swales, detention basins, and rain gardens

Develop and implement regulatory structures

Minimize deviations and waivers from existing regulations

CURRENT TOWN PROJECTS AND EFFORTS

DPW operates and maintains existing catch basins and storm drains through its Operating Budget
Cleaning of storm drains and catch basins is a continuous problem

New storm drains are built through the capital budgeting process

The 2003 Meadowbrook Study was the last major study, with some updates last year (9 major projects)

Only a small number of partial projects from the Meadowbrook Study have been completed to date

Currently Planned and Projected Capital
Project Costs for Stormwater
Infrastructure
(Estimates from Stantech Report 2022
Updates)

The Meadowbrook Channel project will enhance the ability of Meadow Brook to handle the increased flows from the Murphy Field culvert to the Neponset River.

The Dean Street Drain project will relieve serious flooding risks in the vicinity of 53 Dean Street

The proposed Hennessey Field project would create a large detention basin on Hennessey Field, then replant and redevelop the area for recreation when flooding is not occurring.

The Murphy Field work will relieve pressure on an existing culvert and allow flows from the Hennessey Field detention basin and some later projects from several other areas draining to that system to function properly.

The Guild Street drainage system picks up most of the runoff near, around, and behind the Norwood Hospital site, crosses under the railroad tracks at the underpass at Guild Street and Broadway, and ultimately connects into the Hennessey Field system.

The Broadway/Nahatan Street system collects essentially all the stormwater generated northeasterly of Guild Street within the Meadow Brook drainage area and conveys it to the Hennessey Field area and then to the Neponset River.

The Jacobsen Drive system collects a relatively small area of the overall drainage basin, but it is a low area that exacerbates the runoff to it. The system lies to the north of Dean Street and west of Pleasant Street.

The East Hoyle/Washington Street Drainage system collects the stormwater from the intersection of East Hoyle Street and Washington Street, including the area at bend in East Hoyle Street at the train station, plus the higher elevation areas to the north and east of that area, along Winter Street to Nichols and around the Shattuck Park area.

Note that the unfunded capital cost estimates for these projects, including design and construction, already total:

\$40,452,000

(in early 2022 dollars)

Not including inflation over 10 years, debt service, or increases in operating and maintenance costs to be expected

Impact of New Stormwater Projects:

- Reduce flooding in the areas currently most susceptible to major inundation
- Reduce the risk of the public safety building from being isolated or inundated again
- Minimize the risks to Norwood businesses and residences that have seen repeated and more frequent flooding in recent years
- Provide greater protection from the impacts of projected storms for the next 75 years
- It will NOT eliminate all flooding from all storms or fix all the currently know flooding issue

Realistic Financing Options:

- Finance through the normal capital outlay process and operating budget
- Debt exclusion override
- Assessment of a separate stormwater management fee

The ad hoc stormwater utility study committee is evaluating all of these options, in concert with the DPW Director, the Treasurer's office and the Board of Selectmen to identify the most appropriate option for this situation.

Results are not yet finalized

Activities going forward:

- The ad hoc stormwater utility study committee will continue working with town staff to develop an appropriate funding mechanism
- Public information sessions are planned for the coming months to seek input on options and to inform the public about the projects and program
- Return in the Fall for a specific funding plan recommendation for consideration by Board of Selectmen and Town Meeting

Planned Public Information and Participation Program:

The committee plans to initiate a series of public meeting, ideally sponsored by the committee and various community groups, at various times and places as the program develops over the next few months

The committee will be looking for input from all residents and businesses regarding the program and the development of the appropriate financing structure

HENNESSEY FIELD PROJECT DISCUSSION BY MARK
RYAN

FOLLOWED BY GENERAL QUESTIONS AND
COMMENTS FROM ANYONE IN ATTENDANCE ON
ANYTHING WE HAVE PRESENTED OR DISCUSSED THIS
EVENING