

Steady Release-Flow to Target

*US Army
Corps of Engineers*

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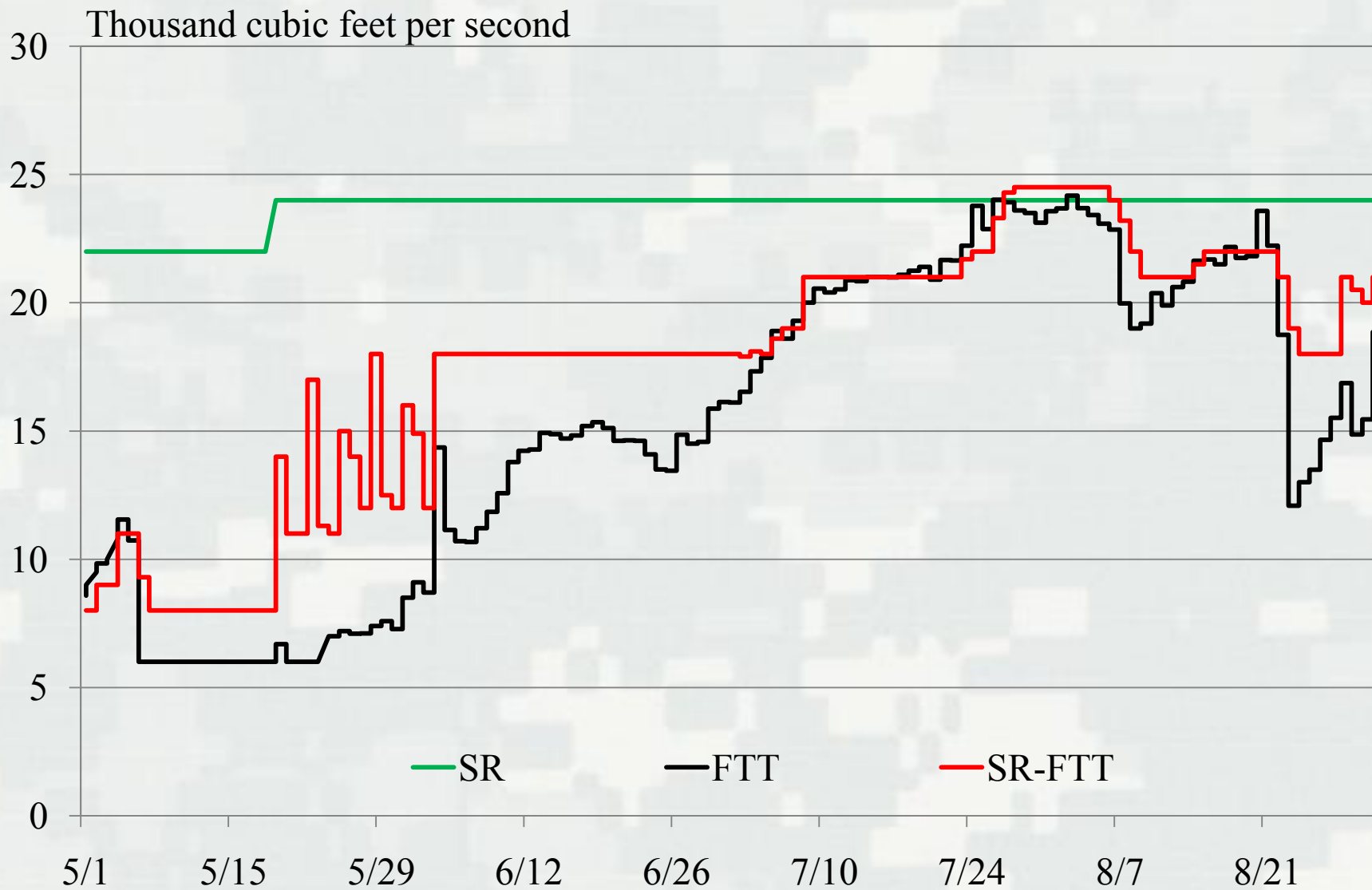


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Release Options

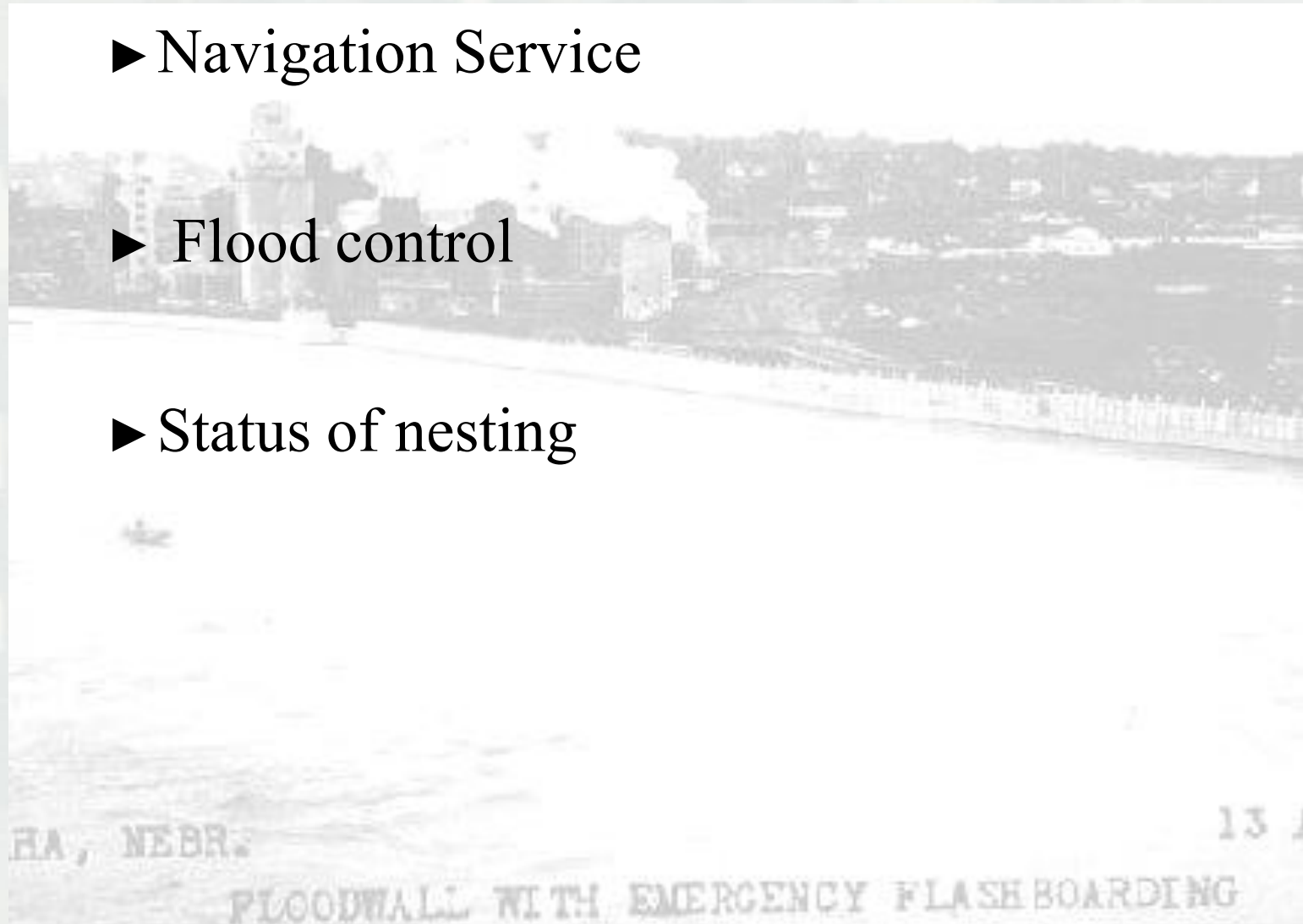


Considerations

▶ Navigation Service

▶ Flood control

▶ Status of nesting



Navigation

- ▶ Service Level

Minimum or full?

What release will be needed in Jul/ Aug

- ▶ Target Location

Sioux City, Omaha, Nebraska City, Kansas
City?

HA, NEBR.

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FLOODWALL WITH EMERGENCY FLASH BOARDING

Flood Control

▶ Below Gavins Point

- High tributary runoff
- Low Gavins Point releases
- Back side of the peak

▶ Above Gavins Point

- High tributary runoff Between Ft. Randall and Gavins Point
- Gavins Point full

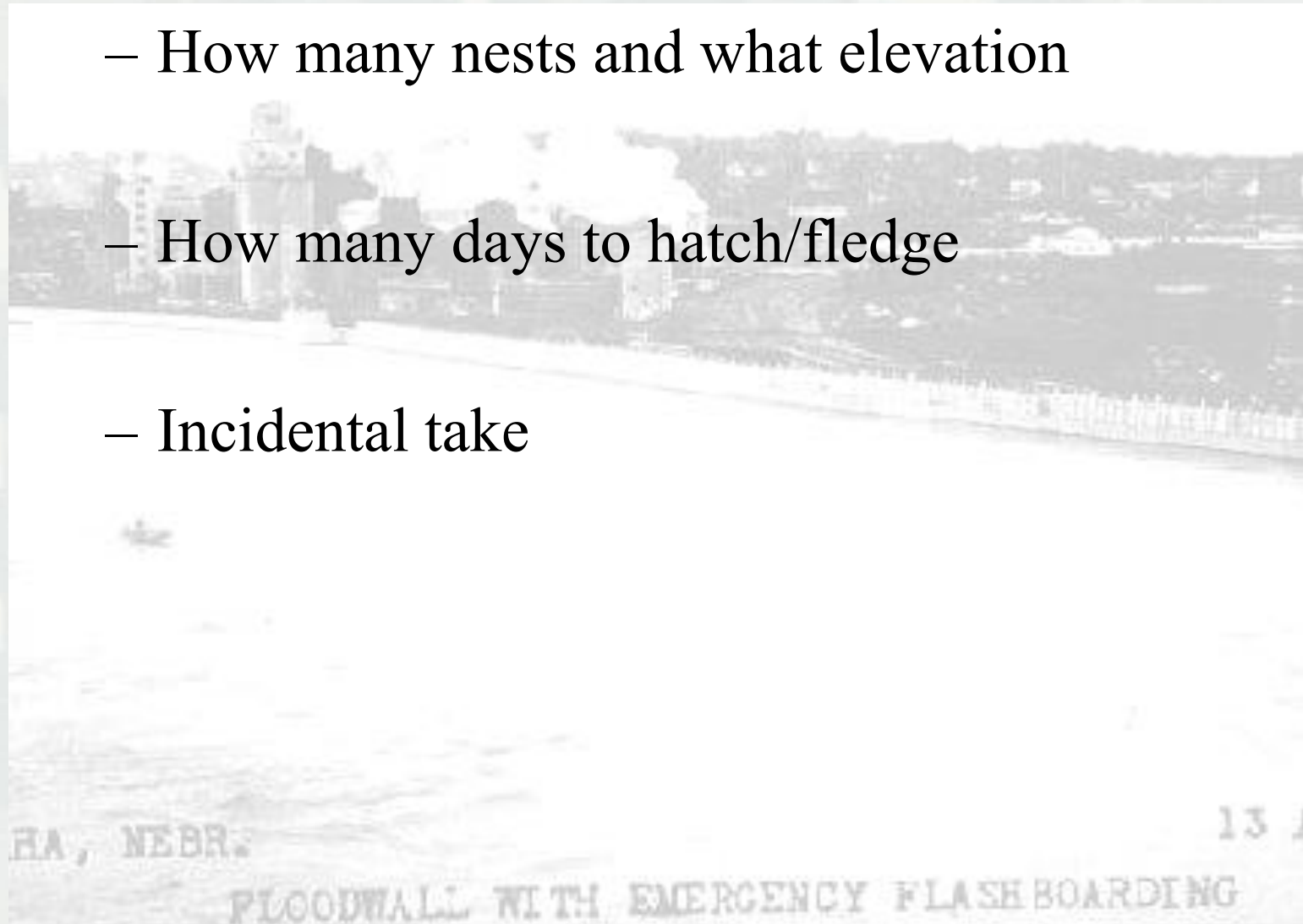
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Nesting Status

- How many nests and what elevation
- How many days to hatch/fledge
- Incidental take



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Process

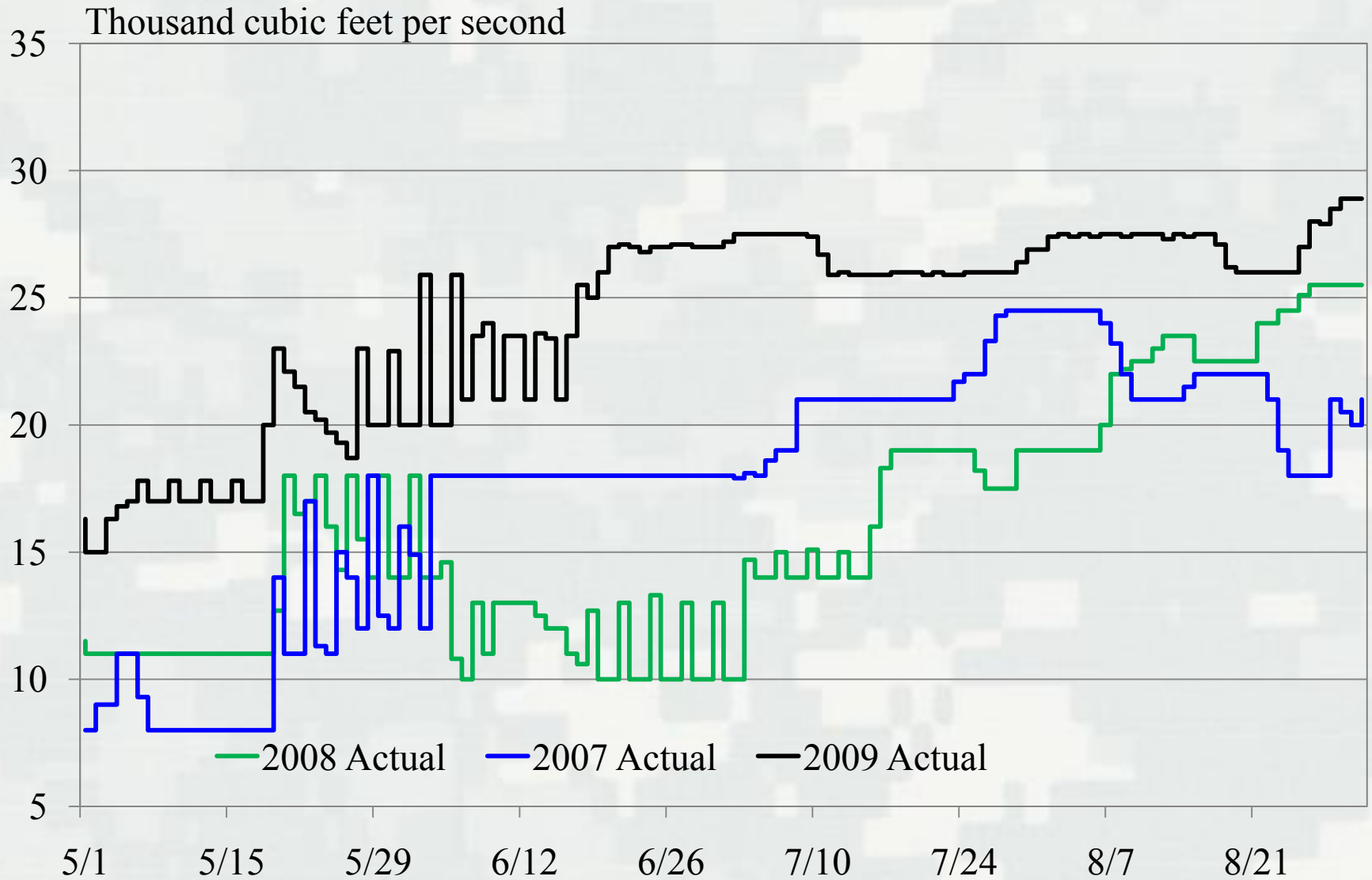
- ▶ Mid May set the initial steady release
- ▶ Reduce releases as flood control dictates
- ▶ Rigorously manage Gavins Point pool elevation to the extent possible
- ▶ Spike releases as necessary to preserve navigation and prevent later inundation of nests

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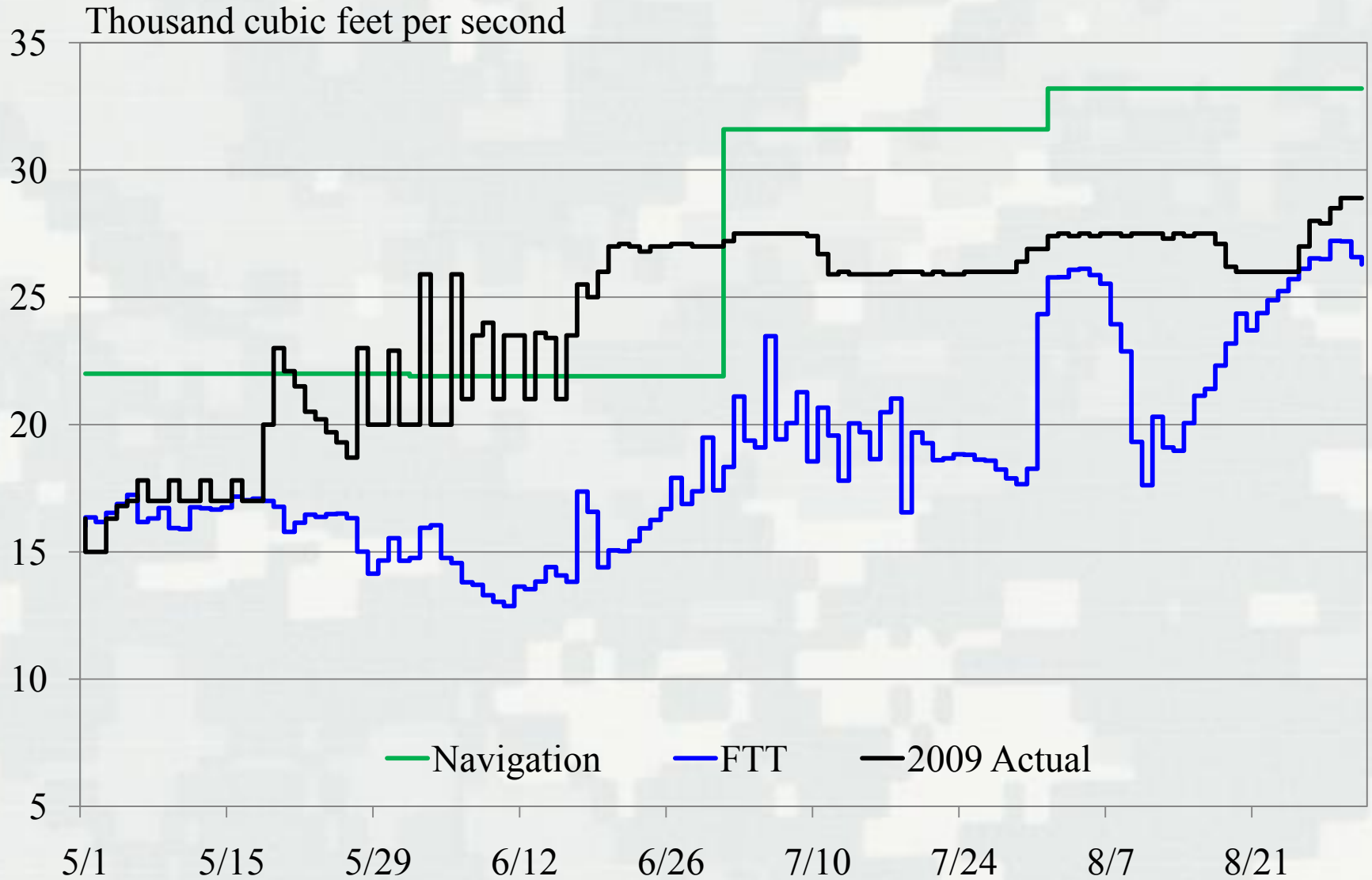
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Gavins Point Releases

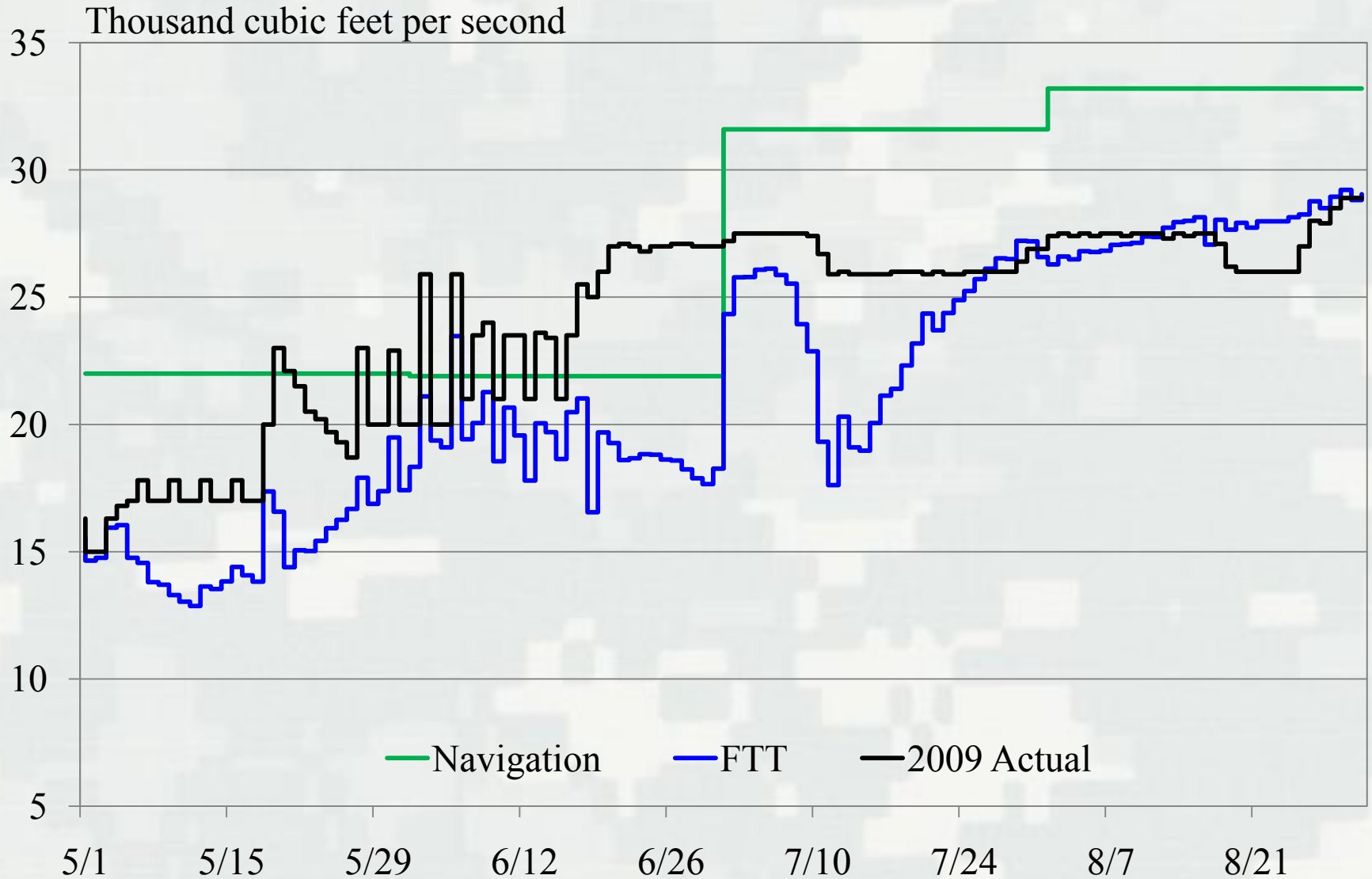


2009 Gavins Point Releases



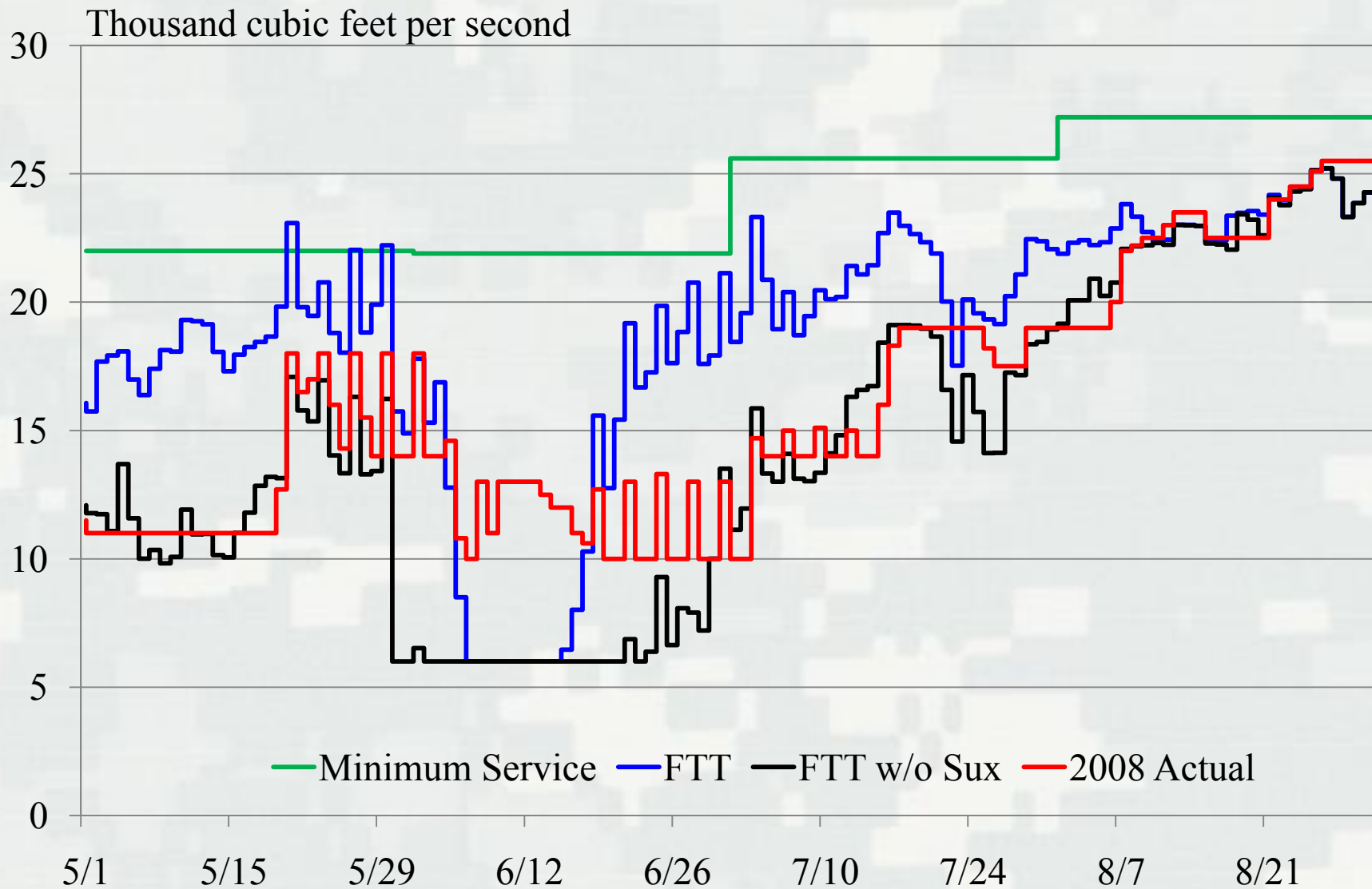
Navigation service level started season at minimum service, changed to full service in July

2009 Gavins Point Releases

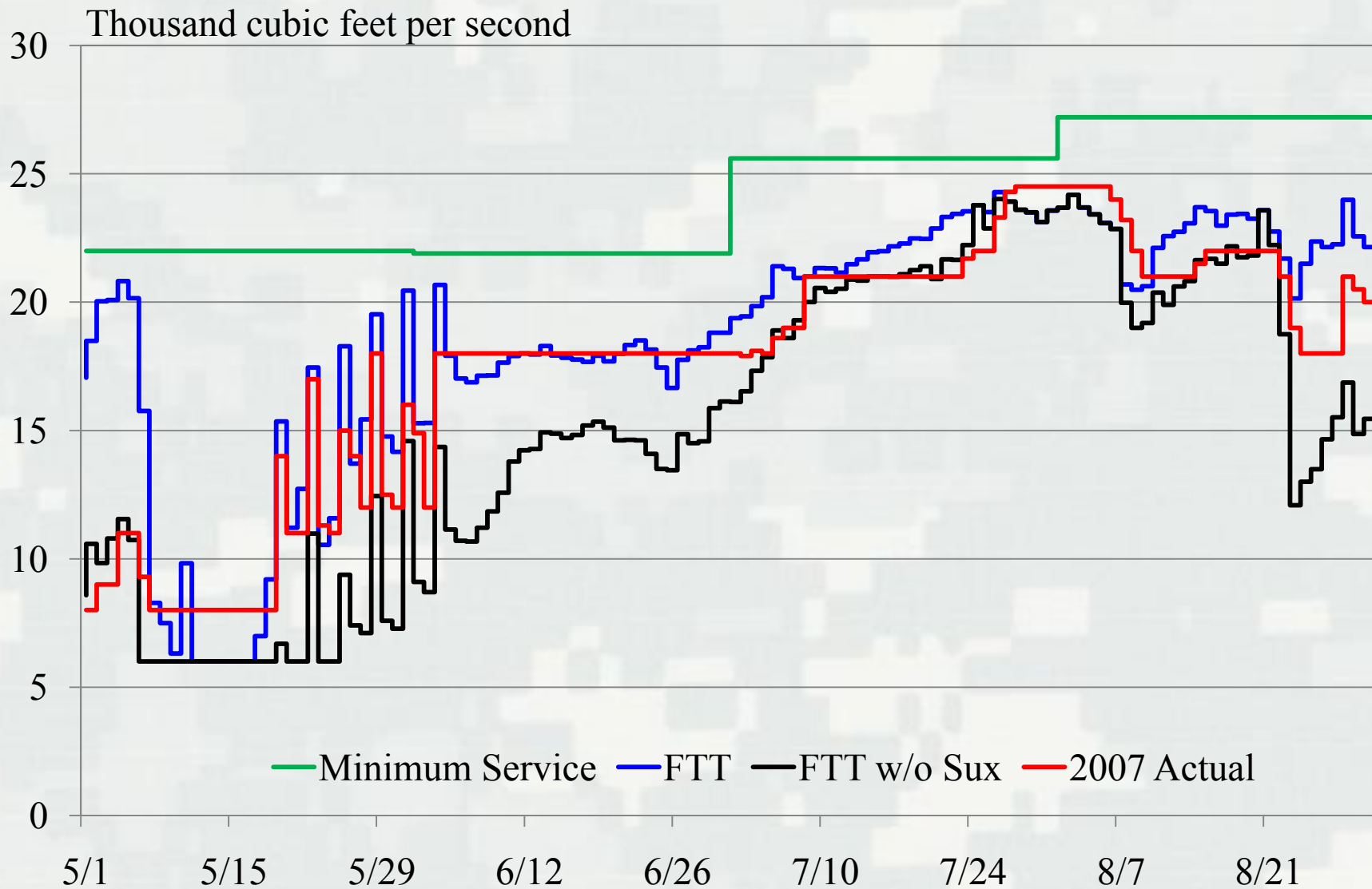


Navigation service level started season at minimum service, changed to full service in July

2008 Gavins Point Releases



2007 Gavins Point Releases



Summary

- ▶ SR = more flood control/water conservation conflicts, less potential for Incidental Take
- ▶ FTT = more potential for Incidental Take (the old way)
- ▶ SR – FTT = better balance of risk

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FLOODWALL WITH EMERGENCY FLASH BOARDING

Questions?

