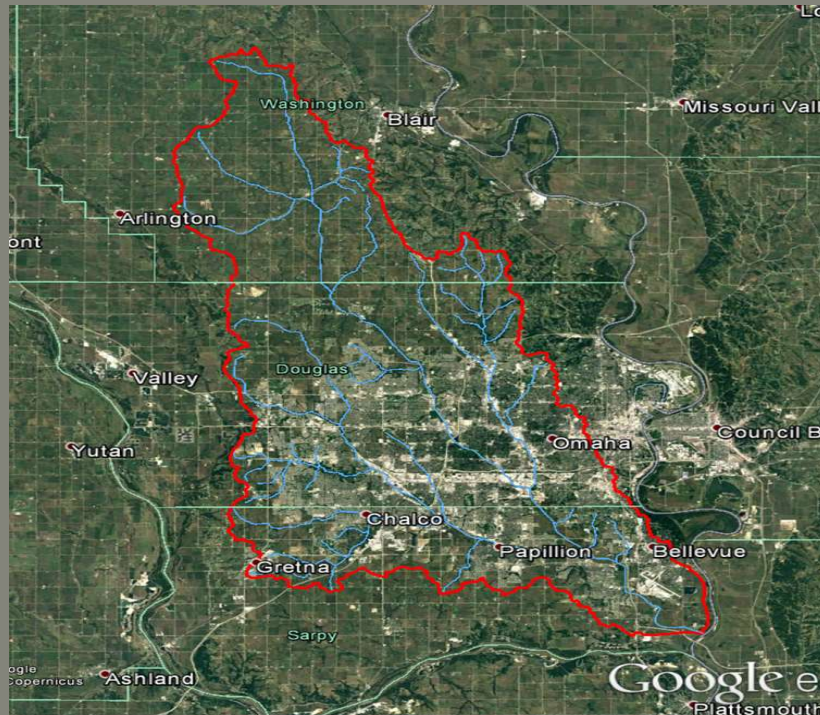


PAPILLION CREEK AND TRIBUTARIES LAKES, NEBRASKA GENERAL REEVALUATION STUDY

Public Scoping Meetings

December 3, 2018
&
December 5, 2018

Tiffany Vanosdall
Project Manager, USACE



"The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."

FOUO/FOR DISCUSSION



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BACKGROUND

- Papillion Creek and Tributaries Lakes, Nebraska, a comprehensive plan to reduce flood risks for the Papillion Creek basin, was authorized in the Flood Control Act of 1968 and consisted of 21 dams for flood control, recreation, and water quality.
 - only 4 of the original 21 dams were constructed as part of the federal project
 - updated in the 1980s to substitute some channel improvements and levees to address localized risks in specific reaches
 - 4 dams and 6 levee systems comprising the federal project are owned and operated by local sponsors
 - additional dams, detention basins, and non-federal levee systems have been constructed
- The Energy and Water Development Appropriation Act, 1982 (public law 97-88) House Report No. 97-177 authorized a reevaluation of the Papillion Creek and Tributaries Lakes, Nebraska Report



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PURPOSE AND NEED

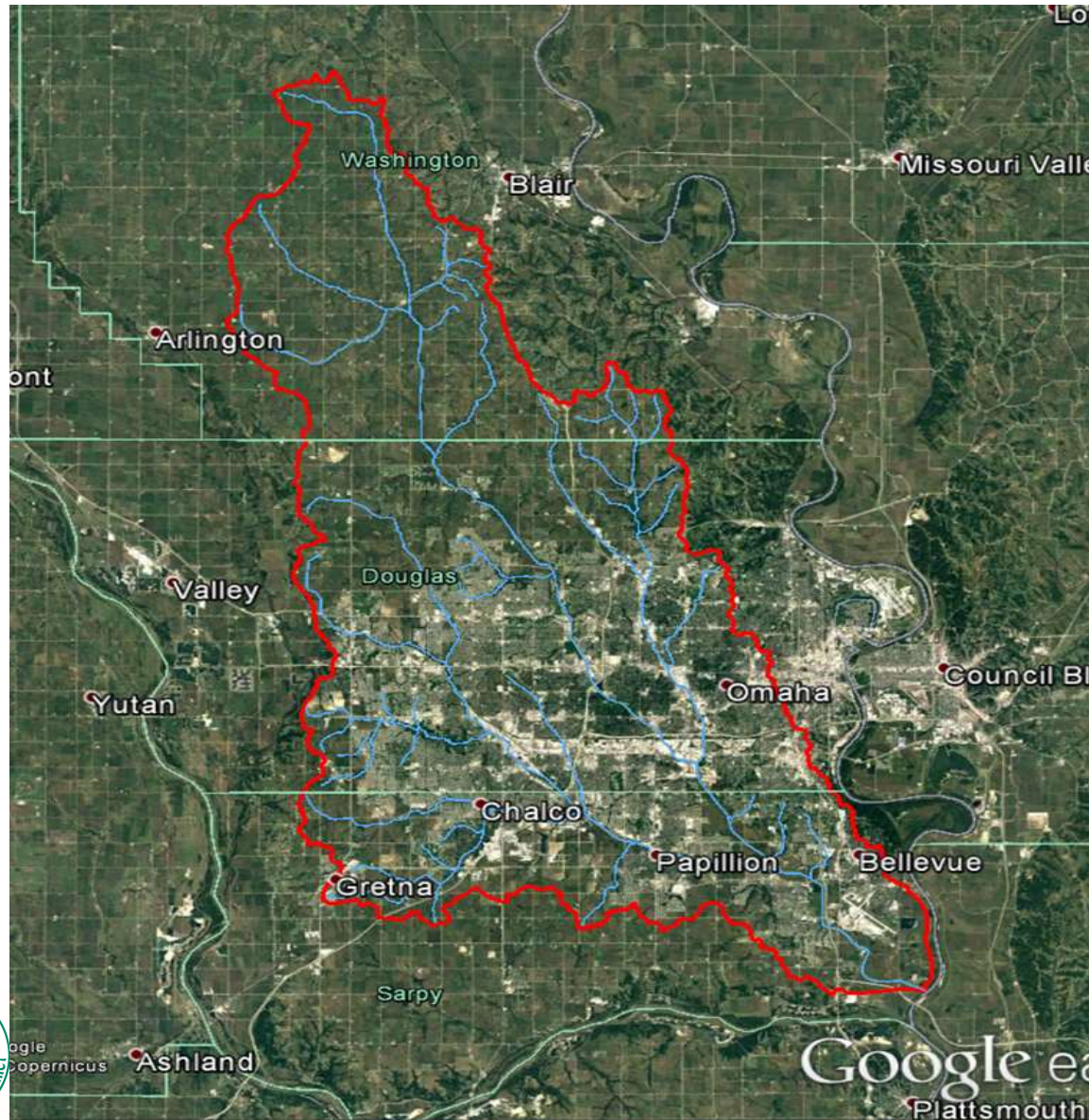
- The purpose of the project is to address flood risk issues in order to reduce flood and life safety risks in the Papillion Creek Basin.
- Need: Urban development within the floodplain has resulted in approximately 4,700 structures in the 500 year floodplain with an approximate structure value of \$1.9B. The population at risk is approximately 6,000 people and there are six schools, four emergency medical services, four fire stations, two local emergency operation centers, two national shelter systems, and three law enforcement facilities within the 500 year floodplain.



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STUDY AREA



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PROBLEMS AND OPPORTUNITIES

Problem: Seasonal rainfall and snow events combined with undersized bridges, culverts, and channels and extensive development in the floodplain cause residential and commercial flooding along Big Papillion Creek, West Papillion Creek, and Little Papillion Creek.

Opportunities:

- Reduce flood risk along Big Papillion Creek, West Papillion Creek, and Little Papillion Creek.
- Increase flood risk awareness in the Papillion Creek Basin community.
- Increase life safety.
- Increase floodplain connectivity where compatible with flood risk management reduction.
- Increase recreation where compatible with flood risk management reduction.

Problem: Degradation in the main channel with deposition on channel benches have resulted in less channel capacity.

Opportunities

- Reduce flood risk along Big Papillion Creek, West Papillion Creek, and Little Papillion Creek.
 - Increase channel stability
 - Increase ecosystem habitat as a function of addressing stream stability
- Increase sediment management with ancillary water quality improvements



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OBJECTIVES

- Reduce the risk of economic flood damages in the Papillion Creek watershed
- Reduce the risk of noneconomic flood damages in the Papillion Creek watershed (life safety)
- Increase in-channel, riparian and wetland habitat quantity and quality in Big Papillion Creek, Little Papillion Creek and West Papillion Creek as an incidental benefit of flood risk reduction measures
- Increase recreation opportunities to improve quality of life



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POTENTIAL MEASURES/ALTERNATIVES



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SCHEDULE



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