

GRADING SCALE	
0 – 39	F
40 – 69	D
70 – 79	C
80 – 89	B
90 – 100	A

**Overall Grade for  
Levees / Flood Protection**

Performance Criteria	Weighing Factor	Overall Score
Flood Control Capacity	2	68
Maintenance	2	154
Infrastructure at Risk	1	41
Age of Facilities	1	61
Master Plan	1	49
Condition	2	132
Preparedness	1	88
Past Performance	2	100
<b>Final Score</b>		<b>693</b>
<b>Max Possible</b>		<b>1320</b>
<b>Percentage</b>		<b>53%</b>
<b>FINAL GRADE</b>		<b>D</b>

**2006**  
*Report Card*  
*for Northern California*  
**Infrastructure**  
*Levees / Flood Protection*

**ASCE**  
American Society of Civil Engineers  
*Sacramento Section*

## D UPPER SACRAMENTO RIVER

53%

This reach extends from Colusa to the upstream end of the flood control levees near Ord Bend. The levees are in need of some maintenance.

## D MIDDLE SACRAMENTO RIVER

59%

This reach is from Verona to Colusa. The levees are mostly close to the river and also need active maintenance.

## D METRO SACRAMENTO RIVER

54%

This section of river includes the cities of Sacramento and West Sacramento. There are a number of serious erosion sites that are currently planned for repair.

## D- LOWER SACRAMENTO RIVER

44%

This area is generally from Clarksburg to the downstream end of the levee system and includes many of the sloughs to the west of the river. While there is evidence of an active repair program in much of the system, many erosion sites remain.

## D- YUBA/FEATHER/BEAR

47%

This area has a poor record for flooding but has an aggressive master plan to improve all levees.

## F CACHE CREEK

38%

The Cache Creek levees have a low level of protection and many erosion sites. There is no active master plan for upgrading.

## C AMERICAN RIVER

73%

The American River levees have had many recent upgrades including slurry walls and new bank protection and there is a strong plan to increase the level of protection to greater than the 100-year event.

## F SAN JOAQUIN RIVER/DELTA

23%

The Delta levees are old and continue to deteriorate. Their overall condition is such that even a "Sunny Day" failure has occurred. This group of levees ranked low in all categories.

## D- LOWER SAN JOAQUIN RIVER

42%

This reach from the Merced River to the Delta has a low level of protection with a history of foundation seepage, bank erosion and failures.

## C+ YOLO BYPASS

78%

The Yolo Bypass is a critical part of the flood control system and has performed well with only a few past problems.

## D+ SUTTER BYPASS

68%

The Sutter Bypass is also an integral part of the flood control system for the valley. A failure in 1997 brought the rating down.



For more information visit  
[www.asce-sacto.org](http://www.asce-sacto.org)

*2006 Report Card*  
for Northern California Infrastructure  
Levee/Flood Protection