

## CRS UNIFORM MINIMUM CREDIT ARIZONA

### SUMMARY

The Community Rating System (CRS) provides Uniform Minimum Credit (UMC) for certain state laws, regulations, and standards that support floodplain management within the state and have proven effective in reducing flood damage.

The following table summarizes UMC available to all communities. It also includes possible additional credit available for selected areas or state activities and creditable state model ordinance provisions. ISO/CRS Specialists and the communities need to determine which possible additional credits apply to their area. These UMCs do not necessarily apply to Tribal Nations.

The range of credit available to communities within the state is shown below, followed by an explanation of each activity. The credit is based on the 2013 *CRS Coordinator's Manual*.

<i>Activity</i>	<i>Element</i>	<i>Credit</i>
<b>Uniform Minimum Credit</b>		
430	Freeboard (FRB)	7.5 - 100
430	State-mandated Standards (SMS)	7.5 - 10
450	Erosion & Sedimentation Control (ESC)	10
	<b>Total</b>	<b>25 - 120</b>
<b>Possible Additional Credit</b>		
410	New Study (NS)	0 - 130
430	State-mandated Standards (SMS)	9 - 20
450	Stormwater Management Regulations (SMR)	90 - 114
450	Water Quality (WQ)	20
630	State Dam Safety (SDS)	0 - 45
	<b>Total</b>	<b>119 - 329</b>

Credit for activities in the 400 series can increase based on the Community Growth Adjustment. The CRS requires participating communities to maintain elevation certificates, which provide an additional 38 points. Five hundred points are needed for Class 9.

### UNIFORM MINIMUM CREDIT

#### Activity 430. Higher Regulatory Standards

**Freeboard (FRB)** – From 7.5 to 100 points are awarded for regulations requiring any residential structure built in a floodplain to be constructed at or above the regulatory flood elevation, which is one foot above the Base Flood Elevation. Manufactured homes

must be elevated so that the lowest structural member is at or above the regulatory flood elevation. Therefore, FRB is awarded 100 points. If utilities and ductwork are not required to be at freeboard level, FRB is multiplied by 0.75. The credit is further reduced if the community has Approximate A Zones in its floodplain and flood elevations are not required to be determined in those areas.

**Legal basis:** The freeboard requirement is addressed in Arizona state code 48-3609(B)(4). The regulatory flood level is addressed in Arizona 48-3601 (11), Definitions. The regulations are at <http://www.azleg.state.az.us/FormatDocument.asp?inDoc=/ars/48/03609.htm&Title=48&DocType=ARS> and <http://www.azleg.state.az.us/FormatDocument.asp?inDoc=/ars/48/03601.htm&Title=48&DocType=ARS>.

**Verification:** ISO/CRS Specialists will verify credit by reviewing elevation certificates, permits, site plans, and similar documents for new developments in the regulatory floodplain.

**Annual UMC verification:** The ISO/CRS Specialist will verify that the regulations are still in effect.

**State-mandated Standards (SMS)** – From 7.5 to 10 points are awarded for state-mandated regulatory standards. Credit equals 0.10 times the sum of credit points for floodplain management regulatory standards. Total SMS is limited to 20 points.

State-mandated Standards		
Activity	Element	Credit
430	Freeboard (FRB)	75 - 100
	<b>Total</b>	<b>75 -100</b>
	<b>x 0.1</b>	<b>7.5-10</b>

**Source:** Section 432.n. of the CRS *Coordinator’s Manual*.

## Activity 450. Stormwater Management

**Erosion & Sedimentation Control (ESC)** – 10 points are awarded for the requirement that construction projects of greater than one acre require erosion and sediment control measures.

**Legal basis:** Page 37 of the General Permit for Discharge from Construction Activities at <http://www.azdeq.gov/function/forms/appswater.html#cgp>.

**Verification:** ISO/CRS Specialists will verify credit by reviewing permits and erosion control plans.



**Annual UMC verification:** ISO/CSR Specialists will verify that the regulations are still in effect.

## POSSIBLE ADDITIONAL CREDIT

Some state standards are eligible for CRS credit, but may not be in effect in every community. These standards are addressed below. ISO/CRS Specialists and the communities need to determine whether they are creditable in their area.

### Activity 410. Floodplain Mapping

**New Study (NS)** - Up to 130 points are awarded for State Standard (SS) 2-96, "*Requirement for Floodplain and Floodway Delineation in Riverine Environments,*" which provides for flood water surface elevations, floodplain and floodway limits at the time of development. Communities should include this standard in their ordinance for all unmapped drainages. Since varying levels of analyses are permitted by the State Standard, the technical reviewer will determine whether credit is eligible based on the community's implementation of the requirement.

**Legal basis:** The Arizona Department of Water Resources, *Requirement for Floodplain and Floodway Delineation in Riverine Environments*, SS 2-96 at <http://www.azwater.gov/azdwr/SurfaceWater/FloodManagement/documents/SS2-96Riverine.PDF>.

**Verification:** ISO/CRS Specialists will review permits, site plans, elevation certificates, and similar documents for those developments in the Approximate A zone. The community's ordinance provision and impact adjustment maps are needed to verify credit and will be provided to the technical reviewer.

**Annual UMC verification:** The technical reviewer will verify that the regulations are still in effect, and review the calculations.

### Activity 450. Stormwater Management

**Stormwater Management Regulations (SMR)** - From 17.25 to 204 points are provided if a community adopts State Standard 8-99 for "*Stormwater Detention/Retention*" which are intended to control peak runoff from the new developments.

SS8-99 requires regulation of all development except single family residences, residential subdivisions with an average lot area less than or equal to one acre, or projects greater than 10 acres which drain directly into a large watercourse. This provides 90 points (SZ = 90). Communities must regulate runoff from either the 100-year storm (DS = 100) or the 10- and 100-year storm (DS = 114).

**Legal basis:** *State Standard 8-99 for Stormwater Detention/Retention*, Arizona Department of Water Resources, September 15, 1999 at

[http://www.azwater.gov/azdwr/SurfaceWater/FloodManagement/documents/SS8-99Detention\\_Retention.PDF](http://www.azwater.gov/azdwr/SurfaceWater/FloodManagement/documents/SS8-99Detention_Retention.PDF).

**Verification:** The community’s ordinance provision and copies of drainage reports are needed to verify credit and will be provided to the technical reviewer for verification.

**Annual UMC verification:** The technical reviewer will recertify annually that *State Standard 8-99 for Stormwater Detention/Retention, Arizona Department of Water Resources*, is in full effect.

**Water Quality Regulations (WQ)** – 20 points may be awarded if new developments’ stormwater management facilities are required to improve the quality of stormwater management runoff.

**Legal basis:** This is part of the National Pollutant Discharge Elimination System (NPDES), Phase II Program requirements.

**Verification:** ISO/CRS Specialists will review a copy of the local ordinance language that requires best management practices for water quality and copies of development plans showing implementation of the law.

**Annual UMC verification:** ISO/CRS Specialists will verify that best management practices for water quality are required.

**State-mandated Standards (SMS)** – From 9 to 20 points are awarded for state mandated regulatory standards. Credit equals 0.10 time the sum of credit points for floodplain management regulatory standards. Total SMS is limited to 20 points.

State-mandated Standards		
Activity	Element	Credit
410	New Study (NS)	0 - 130
450	Stormwater Management Regulations (SMR)	90 - 114
	<b>Total</b>	<b>90 - 244</b>
	<b>x 0.1</b>	<b>9 - 20</b>

**Legal basis:** Section 432.n of the *CRS Coordinator’s Manual*.

## Activity 630. Dams

**State Dam Safety (SDS)** – Up to 45 points of credit for State Dam Safety Program activities based on the Dam Safety Program Management Tool. 15 points awarded for Condition Assessment, 15 points for Risk Communication and Public Awareness, and 15 points for Emergency Action Planning.

**Verification:** ISO/CRS Specialists will verify that the community is in compliance with the State Dam Safety Program. SDS credit is limited to communities that would be affected by a flood from the failure of a high-hazard-potential dam. This must be documented with a description and a map.

**Annual UMC verification:** The Federal Emergency Management Agency's Dam Safety Office annually verifies SDS credit.

## MODEL ORDINANCES

Arizona has two Model Floodplain Management Ordinances which do not contain additional creditable provisions.