DAWSON COUNTY BOARD OF COMMISSIONERS WORK SESSION AGENDA – THURSDAY, DECEMBER 5, 2024 DAWSON COUNTY GOVERNMENT CENTER ASSEMBLY ROOM 25 JUSTICE WAY, DAWSONVILLE, GEORGIA 30534 4:00 PM

UNFINISHED BUSINESS

1. Presentation of Variation of Request to Extend and Allocate Additional Funds for Sign-On Bonuses for Full-Time Paramedic Applicants / New Hires- County Manager Joey Leverette (Last discussed at the November 21, 2024, Work Session)

NEW BUSINESS

- 1. Presentation of a Memorandum of Understanding for Reimbursement of Juvenile Court Attorney Fees- Juvenile Court Judge Amber Sowers
- 2. Presentation of Request for Approval of FY 2025 State Public Defender Contract- Public Defender Brad Morris / Chief Assistant Public Defender Sarah Willis
- 3. Presentation of Request for Approval of FY 2025 Public Defender Intergovernmental Agreement Between Dawson and Hall Counties- Public Defender Brad Morris / Chief Assistant Public Defender Sarah Willis
- 4. Presentation of a Resolution for Dawson County Hazard Mitigation Plan Update 2024-2029- Emergency Services Director Troy Leist
- 5. Presentation of IFB #460-24 State Route 136 at Shoal Creek Road Roundabout Award Request- Public Works Director Robert Drewry / Purchasing Manager Melissa Hawk
- <u>6.</u> Presentation of RFP #459-24 Construction Services Styles Park- Parks & Recreation Director Matt Payne / Purchasing Manager Melissa Hawk
- 7. Presentation of Keep Dawson County Beautiful Executive Director Appointment- County Manager Joey Leverette
- 8. Presentation of Board Appointments:
 - a. Development Authority
 - i. Jere Allen- reappointment (Term: January 2025 through December 2028)
 - ii. Tony Passarello- reappointment (Term: January 2025 through December 2028)
 - **b.** Joint Development Authority
 - i. Jere Allen- reappointment (Term: January 2025 through December 2028)
- 9. County Manager Report
- 10. County Attorney Report
- *A Voting Session meeting will immediately follow the Work Session meeting.

Those with disabilities who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting, should contact the ADA Coordinator at 706-344-3666, extension 44514. The county will make reasonable accommodations for those persons.



Comments/Attachments: _____

DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA REQUEST FORM

Department:	artment: Administration Work Session: November 21, 202					nber 21, 2024
Prepared By:	Joey Leverette	<u>></u>	Voting	g Session: Dece	ember 5, 2024	
Presenter: <u>Joey Leverette</u>				Public Hearing: Yes No _		
•	Title: Presenta Full-Time Para	-			lditional Fund	s for Sign-On
Background l	Information:					
County offe	unty desires to ers a \$3,000 sig vire on Decemb	n-on bonus fo		-		-
Current Infor	mation:					
proposes to If the applic to the empl 2025 is for	to attract additextend and incomment qualifies for oyee during the vacant/new him mation: Not Appli	rease the sign- or the bonus, the first year of e paramedic po	on bonus prog he bonus is to f employment	gram to \$12,00 be paid in eq . The propose Estimated tota	00 for calendar ual installment ed program ex	ts quarterly tension for 0.
Fund	Department	Account #	Budget	Balance	Requested	Remaining
*If this item i provide <i>detai</i>	ersonnel-relate s being reques led justification	ted to move to	o the same day	's voting sessi	ion for BOC co	onsideration,
Funds for Sig on bonus pro- only.	ation/Motion: Man-On Bonuses gram to \$12,00 Head Authoriza	for Full-Time 00 for calendar	Paramedic A	pplicants/New	Hires, increas	sing the sign- positions
Finance Depa	ertment Author	rization: <u>Vicki</u>			Date:	11/12/24
County Mana	ger Authorizat	non: <u>Joey Lev</u>	<u>erette</u>		Date:	11-08-2024



Recommendation/Motion:

DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA REQUEST FORM

Department: J	uvenile Court	Indigent Defo	<u>ense</u>	Work	Session: Dece	mber 5, 202
Prepared By:	Chief Judge A	lison Toller		Voting	Session: Dece	ember 5, 202
Presenter: Juc	lge Amber Sov	wers		Public Heari	ng: Yes	_ No <u>X</u>
_	Title: Presenta Federal IV-E F		J request for r	eimbursement	of Juvenile C	Court attorne
Background I	nformation:					
for the eligib children in D reimburseme costs. There	f the Child Advo- le portion of atto- leawson County. Int process, we emay be a request ly appears that to r attorneys.	orney fees and After considera expect to still re at to provide tra	administrative ation of the pas ceive reimburse ining to our att	expenses for restrictions expenses for restriction rate about corneys with sort	epresentation of and fees associa 15% of our curr me of the reimb	parents and ated with the rent attorney ursed funds,
Current Infor	nation:					
of money to r expended, we a reimbursem	e no funds expendeduce our overage could have received the reimburseme	ll budget. If we couped \$42,039 The proposed	assume a 15% in a sum of the first 1 MOU is dated	reimbursement 0 months of 20	in looking at the 24, we would b	e 2023 funds be entitled to
Budget Inforr Applicable: _		applicable: <u>x</u>		Budgeted:	Yes N	lo
Fund	Department	Account #	Budget	Balance	Requested	Remaining
*If this is a pe	ersonnel-relate	d request, has	it been review	ed by Human	Resources? _	
	s being requested by the second secon		•	's voting sessi	on for BOC co	onsideration,
The longer	we are delayed	l in moving fo	orward with th	e MOU, the l	onger it will t	ake to start

Department Head Authorization: Chief Judge Alison Toller	Date: <u>11/21/24</u>
Finance Department Authorization: Vickie Neikirk	Date: <u>11/25/24</u>
County Manager Authorization: <u>J. Leverette</u>	Date: <u>11/26/24</u>

Comments/Attachments: _____

State of Georgia



County of Fulton

MEMORANDUM OF UNDERSTANDING BETWEEN GEORGIA OFFICE OF THE CHILD ADVOCATE, HALL COUNTY, AND HALL COUNTY JUVENILE COURT

THIS MEMORANDUM OF UNDERSTANDING ("MOU") is effective and shall terminate on the dates set forth in Section 2 of this MOU. This MOU is made and entered into by and between the Georgia Office of the Child Advocate ("OCA"), Hall County ("the County"), and the Hall County Juvenile Court ("the Court"). This MOU will be the basis of the Quality Legal Representation Program ("the Program");

WHEREAS OCA is the state agency that provides independent oversight of persons, organizations, and agencies responsible for providing services to or caring for children who are victims of child abuse and neglect, or whose domestic situation requires intervention by the state;

WHEREAS OCA was created for the purpose of assisting, protecting, and restoring the security of children whose well-being is threatened, per O.C.G.A § 15-11-740, et seq, and OCA is empowered to establish policies and procedures necessary to accomplish its purpose, and whereas OCA has the right to access all records and files of a child receiving protective services from the state where the child has been placed for care or received treatment per O.C.G.A § 15-11-743(5) and 15-11-744(a)(2) and has the authority to contract as needed to support the work of the advocate per O.C.G.A § 15-11-742(e);

WHEREAS the State of Georgia provides a statutory right to counsel for both parents and children in child welfare cases pursuant to O.C.G.A. § 15-11-103, and counties and courts are responsible for implementing this right to counsel in every child welfare case;

WHEREAS the County currently provides attorney representation for children and parents appearing in the Court, and OCA has budgeted funding to conduct the Program in the County to improve the quality of legal representation and to seek partial reimbursement under Title IV-E of the Social Security Act for costs of legal representation in dependency, termination of parental rights cases, and related cases (e.g., permanent guardianship, legitimation, etc.) as permitted under Title IV-E;

WHEREAS the County and the Court wish to participate in the Program to better address the needs of the Court and the community it serves, and OCA wishes to assist the County in implementing and participating in the Program;

WHEREAS OCA is working to support the County by seeking reimbursement under Title IV-E, to provide training and other support to attorneys providing representation in the Court, and to support the County and the Court in efforts to improve legal representation of children and parents;

WHEREAS OCA has determined that the County expenditures are partially Title IV-E reimbursable by applying the Title IV-E penetration rate (varies by quarter) and the Title IV-E administrative reimbursement rate of up to 50%; and

WHEREAS OCA is a partner with the County and the Court and recognizes that the goal of permanency for children in foster care is one of the primary outcomes sought by the child welfare system, and whereas all parties to this MOU agree that providing trained and effective lawyers advances the goals of permanency, stability, and substantial justice for children involved in child welfare cases:

NOW, THEREFORE, IN CONSIDERATION of their mutual promises and agreements set forth in this intergovernmental MOU, pursuant to the intergovernmental contract clause of the Georgia Constitution of 1983, Article IX, Section III, Paragraph I, the parties hereto agree as follows:

- 1. Purpose of the MOU. This MOU memorializes the understanding between OCA, the County, and the Court to participate in the Program, work together to improve the quality of legal representation provided to children and parents before the Court, and secure Title IV-E reimbursement as a resource to improve legal representation of children and parents in dependency and related court proceedings.
- 2. Period of MOU. This MOU shall be effective as of October 1, 2024 and shall continue in force and effect until September 30, 2026. This MOU may be renewed by mutual agreement of the parties in writing, in accordance with their respective policies, and for a total length of time which shall not exceed the limitation provided in the intergovernmental contract clause of the Georgia Constitution.

3. Responsibilities and Acknowledgements.

- A. Shared Responsibilities: To create and implement strategies to improve legal representation of children and parents, the County, the Court, and OCA shall:
 - i. Require attorney participation in training provided or approved by OCA during the term of this MOU;
 - ii. Implement a process for case assignment/docketing based on a one judge, one team approach where feasible;
 - iii. Ensure the system of appointment, payment, and oversight of representation of children and parents is independent of other parties to the litigation and the court and does not otherwise create conflicts of interest;
 - iv. Assess current attorney caseloads and establishing targets, if needed, for reasonable caseloads within the County to be achieved by an agreed upon time frame, taking into account funding and resources needed to reduce caseloads;
 - v. Incorporate minimum practice guidelines created or approved by OCA into contracts and/or administrative orders and develop a local system to monitor and encourage compliance with the guidelines; and
 - vi. Facilitate regular opportunities for local stakeholder feedback and partnership designed to improve representation and sustain positive impacts of the Program.

B. The County shall:

- i. Provide legal representation for children and parents in dependency, TPR, and related child welfare cases in juvenile court;
- ii. Assist as needed with data collection to evaluate any aspect of the Program;
- iii. Work with OCA to develop a system to address concerns with the quality of representation provided in the Program, and such system shall not affect the authority of the Court to appoint or remove a participating attorney from a particular case or cases for legal cause (including, but not limited to, conflicts of interest) or supplant procedures related to violations of the Georgia Bar Rules;
- iv. Require contract attorneys to submit invoices separating dependency expenses from other representation expenses to ensure that only allowable expenses are submitted for reimbursement:
- v. Collect and provide OCA with data on the County's expenditures for representation, as requested by OCA and certify the accuracy of expenses for purposes of obtaining reimbursement;
- vi. Receive funds obtained through Title IV-E reimbursement and disburse to the department that administers the funding for representation of children and parents;
- vii. Maintain a system or procedure that ensures Title IV-E reimbursement funds received are not included in future calculations of representation expenses for purposes of Title IV-E match; and
- viii. Reimburse OCA for any funds received that are disallowed by the responsible authorities at the State or Federal level.

C. The Court shall:

- i. Allow OCA and its contractors full access to court proceedings and files (whether in paper or electronic form) to allow for evaluation of attorneys and of the Program;
- ii. Work with OCA to allow for scheduling of the initial and ongoing training of attorneys in the Program;
- iii. Ensure that the Special Assistant Attorney General (SAAG) assigned to each case, or in the absence of a SAAG (for example, in legitimation actions) another attorney designated by the Court, shall upload all court orders to the Court Process Reporting System or to any successor data system approved by OCA; and
- iv. Execute any standing orders or internal protocols necessary to effectuate agreed upon elements of the Program during the period of this MOU.

D. OCA shall:

- i. Provide the County with 85% of the Title IV-E funds reimbursed from the County's expenditures on dependency representation;
- ii. Provide training and expertise on the Title IV-E reimbursement process to employees designated by the County and to dependency attorneys;
- iii. Provide legal training and ongoing support of attorneys employed by the County for the Program;
- iv. Work with the County to develop a system to address concerns with the quality of representation provided in the Program;

- v. Determine and implement methods to measure outcomes of the Program; and
- vi. Retain 15% of the Title IV-E funds reimbursed for costs of management of the Program.
- **4. Notice and Liaisons.** The parties will coordinate and conduct communications through their respective Liaisons identified below. Any communication in writing, or any oral communication confirmed in writing, from the respective Liaisons will be deemed communications and notices from the party. Either party may designate a new Liaison, indefinitely, for a stated time period, or for certain designated matters.

For OCA:	For Hall County:
Jerry Bruce	Sommer Green
Director of the Office of the Child Advocate	Hall County Grants Manager
2 Capitol Square SW	sgreen@hallcounty.org
Atlanta, GA 30334	770-297-5503
jbruce@oca.ga.gov	
404-656-4200	
For the Court:	For Dawson County:
Renee Orr, Clerk of Hall County Juvenile	Natalie Johnson, Accounting and Budget
Court	Manager (Dawson County)
P.O. Box 311, Gainesville, GA 30503	24 Justice Way, Suite 2214, Dawsonville, GA
	30534
Sharlynn.orr@hallcounty.org	njohnson@dawsoncountyga.gov
770-531-6928	706-344-3501 x 42215
Beth Holitzner, Director	
Office of Indigent Defense, Northeastern	
Judicial Circuit	
P.O. Box 1435, Gainesville, GA 30503	

- **5. Termination**. This MOU may be terminated by either party upon thirty (30) days written notice. Written notice shall be given to the Liaisons listed in Section 4 above.
- **6. Amendment**. This MOU may be amended by mutual agreement of the parties by a writing of equal dignity.
- 7. Cooperation. The parties agree to cooperate with each other in the performance of the services under this MOU including each party providing the other party with timely access to information and resources to meet the objectives of this MOU. Further, the parties acknowledge that unforeseen issues may arise during the period of this MOU. The parties agree to work cooperatively to resolve such issues.
- **8.** Liability. Each party shall act at its own risk and responsibility. Nothing contained in this MOU shall make, or shall be construed to make the OCA, the County, or the Court liable to a

third party for the debts or obligations of the other.

9. Confidentiality. The parties acknowledge that in order to perform their obligations as called for in this MOU, it may be necessary to disclose to each other certain information considered to be personal, private, or confidential ("Confidential Information"). This information includes but is not limited to confidential child abuse information protected by O.C.G.A. §§ 49-5-40 and 49-5-41, protected health information, and education records. The parties acknowledge that OCA is excepted from these confidentiality statutes insofar as set forth in Title 49 and in O.C.G.A. § 15-11-740 et al. Each party agrees that it will hold in confidence and not disclose to any third party all information regarding a child or family that it obtains in connection with the Program that is confidential or has been designated confidential by state or federal law.

This obligation of the parties shall not apply, and the receiving party shall have no further obligations, with respect to any Confidential Information to the extent receiving party can demonstrate that such Confidential Information (i) is or becomes (through no improper action or inaction of the receiving party or any of its affiliates, agents, consultants or employees) generally available to the public; (ii) can be demonstrated by the receiving party to have been in its possession or known by it prior to the receipt under this MOU; (iii) is rightfully disclosed to the receiving party by a third party without restriction; (iv) is disclosed by the receiving party with the written approval of the disclosing party; (v) is developed independently by the receiving party without use of, reference to, or reliance upon the Confidential Information; or (vi) is obligated to be disclosed by order of a court of competent jurisdiction.

This Confidential Information includes, but is not limited to, all documents, computer programs and documentation, reports, financial and other data, records, forms, tools, products, services, methodologies, present and future research, technical knowledge, marketing plans, trade secrets, and other materials obtained by the County, the Court, and OCA from each other in the course of performing under this MOU, whether tangible or intangible and whether or not stored, compiled, or memorialized physically, electronically, graphically, in writing, or by means now known or later developed. Confidential Information includes without limitation records and information (i) that have been marked as proprietary or confidential; (ii) whose confidential nature have been made known by OCA, the Court or the County or (iii) that due to its character and nature, a reasonable person under like circumstances would treat as confidential.

- 10. Compliance with Laws. The parties shall perform their obligations hereunder in accordance with all federal, state, and local governmental laws, ordinances, codes, rules, regulations, and licensing agreements now or hereafter in effect, including but not limited to all applicable nondiscrimination and state ethics laws. All such laws and regulations are hereby made part of this MOU.
- 11. Time of the Essence; Force Majeure. Time is of the essence of this MOU. However, no party shall be liable to another party for any delay or failure of performance of service outside the reasonable control of the affected party or parties, including but not limited to technology failures, fires or other casualties or accidents, acts of God, severe weather conditions, strikes or labor disputes, or war or other the like.

- **12. Execution Electronically or by Facsimile.** This MOU may be executed in multiple counterparts, electronically and/or by facsimile, each of which counterpart shall be deemed an original, but all of which shall constitute one and the same MOU so long as the MOU is signed by all parties involved. It is sufficient for one party to sign the MOU and then transmit the MOU, either electronically or by facsimile, to the other party to sign and complete.
- 13. Waiver. The failure of any party to exercise or enforce any right conferred upon it hereunder shall not be deemed to be a waiver of any such right nor operate to bar the exercise or performance thereof at any time or times thereafter; nor shall a waiver by a party of any right hereunder at any given time be deemed a waiver thereof for any other time.
- **14. Entire Agreement.** This MOU contains the entire agreement between the parties with regard to its subject matter and supersedes all other prior and contemporaneous statements, agreements, and understandings between the parties regarding its subject matter.

IN WITNESS WHEREOF, the parties hereto have caused this MOU to be executed as of the date indicated below their signatures:

THE GEORGIA OFFICE OF THE CHILD ADVOCATE

Jerry Bruce	Date
Director of Office of Child Advocate	
HALL COUNTY	
Sommer Green, Grants Manager	Date
DAWSON COUNTY	
Natalie Johnson, Dawson County Accounting & Budget Manager	Date
NORTHEASTERN JUDICIAL CIRCUIT JUVENILE COURT	
	,
alin w. Mm	1413/24
Alison W. Toller, Chief Juvenile Court Judge	Date



DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA FORM

Department: PUBLIC DEFENDER Work Session:								
Prepared By: ISABEL CHAVEZ				Voting Session:				
Presenter: BRAD	MORRIS/S	ARAH WILLIS	Pub	olic Hearing: `	/es <u>X</u> No			
Agenda Item Title	Agenda Item Title: REQUEST FOR APPROVAL OF FY 2025 STATE PUBLIC DEFENDER CONTRACT							
Background Information:								
started operati	Dawson County has contracted with the GPDC since the Public Defender System's inception (our office started operating in January, 2005) for the GPDC to employ one attorney and one administrative assistant as State employees via a contract. The contract covers the two employees' salaries and cost of employment as set forth in Attachment B to the State Contract, and a 5% management fee.							
Current Informati	on:							
contract renews	The expense required to fund this contract has been requested and approved in the 2025 budget. The contract renews the agreement between Dawson County and the Georgia Public Defender Council ("GPDC") for the new Fiscal and Calendar Year 2025.							
Fund	Dept. 2800	Acct No. 571001-000	\$213,156.00	Balance \$213,156.00	Requested \$213,156.00	Remaining 0		
Recommendation	n/Motion: <u>Mo</u>	ve to approve th	ne 2025 Contrac	ct with the GP	DC.			
Department Head	d Authorizatio	on:			Date:	_		
Finance Dept. Au	ıthorization: _	— n .			Date:	_		
County Manager	Authorization	1: Alfutt			Date: / }	126/24		
· / ·				Date:				
Comments/Attacl	nments:							
Attachment - INDIGENT DEFENSE SERVICES AGREEMENT BETWEEN THE CIRCUIT PUBLIC DEFENDER OFFICE OF THE NORTHEASTERN JUDICIAL CIRCUIT AND THE GOVERNING AUTHORITY OF DAWSON COUNTY (CY 2025)								

INDIGENT DEFENSE SERVICES AGREEMENT BETWEEN THE CIRCUIT PUBLIC DEFENDER OFFICE OF THE NORTHEASTERN JUDICIAL CIRCUIT AND THE GOVERNING AUTHORITY OF DAWSON COUNTY

THIS AGREEMENT is entered into this _____ day of _____, 2024, between the Circuit Public Defender Office of the Northeastern Judicial Circuit (herein referred to as "the Public Defender Office") and the governing authority of Dawson County, a body politic and a subdivision of the State of Georgia (herein referred to as "the County") and is effective January 1, 2025.

WITNESSETH:

WHEREAS, the Public Defender Office and the County enter into this agreement to implement the provisions of the Georgia Indigent Defense Act of 2003, as amended, including the provisions quoted below; and

WHEREAS, O.C.G.A. § 17-12-23 (d) provides as follows:

A city or county may contract with the circuit public defender office for the provision of criminal defense for indigent persons accused of violating city or county ordinances or state laws. If a city or county does not contract with the circuit public defender office, the city or county shall be subject to all applicable standards adopted by the council for representation of indigent persons in this state; and

WHEREAS, O.C.G.A. § 17-12-25 (b) provides as follows:

The county or counties comprising the judicial circuit may supplement the salary of the circuit public defender in an amount as is or may be authorized by local Act or in an amount as may be determined by the governing authority of the county or counties, whichever is greater; and

WHEREAS, O.C.G.A. § 17-12-26 (c) (4) provides as follows:

Neither the circuit public defender nor any personnel compensated by the state pursuant to the provisions of this article shall be reimbursed from state funds for any expenses for which the person has been reimbursed from funds other than state funds; provided, however, that the governing authority of the county or counties comprising the judicial circuit are authorized to provide travel advances or to reimburse expenses which may be incurred by the person in the performance of his or her official duties to the extent the expenses are not reimbursed by the state as provided in this Code section; and

WHEREAS, O.C.G.A. § 17-12-30 (c) (6) provides as follows:

The governing authority of the county or counties comprising a judicial circuit may supplement the salary or fringe benefits of any state paid position appointed pursuant to this article; and

WHEREAS, O.C.G.A. § 17-12-31 provides in subsections (a) and (b) the following:

- (a) The circuit public defender in each judicial circuit may employ additional assistant circuit public defenders, deputy circuit public defenders, or other attorneys, investigators, paraprofessionals, clerical assistants, and other employees or independent contractors as may be provided for by local law or as may be authorized by the governing authority of the county or counties comprising the judicial circuit. The circuit public defender shall define the duties and fix the title of any attorney or other employee of the office of the circuit public defender.
- (b) Personnel employed by the circuit public defender pursuant to this Code section shall serve at the pleasure of the circuit public defender and shall be compensated by the county or counties comprising the judicial circuit, the manner and amount of compensation to be paid to be fixed either by local Act or by the circuit public defender with the approval of the county or counties comprising the judicial circuit.

WHEREAS, O.C.G.A. § 17-12-34 provides as follows:

The governing authority of the county shall provide, in conjunction and cooperation with the other counties in the judicial circuit and in a pro rata share according to the population of each county, appropriate offices, utilities, telephone expenses, materials, and supplies as may be necessary to equip, maintain, and furnish the office or offices of the circuit public defender in an orderly and efficient manner. The provisions of an office, utilities, telephone expenses, materials, and supplies shall be subject to the budget procedures required by Article 1 of Chapter 81 of Title 36; and

WHEREAS, O.C.G.A. § 17-12-35 provides as follows:

A circuit public defender office may contract with and may accept funds and grants from any public or private source; and

WHEREAS, the County is a body politic, existing and operating under the laws and Constitution of the State of Georgia with full power to enter into contracts and agreements with other political entities; and

WHEREAS, the Public Defender Office is existing under the laws of the State of Georgia and operating under the laws and Constitution of the State of Georgia with full power to enter into contracts and agreements with other entities; and

WHEREAS, it is the intent of the parties to this agreement to provide for the operation of an indigent defense system to assure that adequate and effective legal representation is provided,

independent of political considerations or private interests, to indigent defendants in criminal cases consistent with the standards adopted by the Georgia Public Defender Council. This system and this agreement include the following:

- (1) The provision by the Public Defender Office of the statutorily required services to the County;
- (2) The payment and provision for additional personnel by the County;
- (3) The provision by the County of its pro rata share of the costs of appropriate offices, utilities, telephone expenses, materials, and supplies as may be necessary to equip, maintain, and furnish the office or offices of the circuit public defender in an orderly and efficient manner;
- (4) Travel advances and reimbursement of expenses;
- (5) Salary supplements; and
- (6) The provision for other matters necessary to carry out this agreement.

NOW THEREFORE, in consideration of the mutual covenants and promises contained in the agreement and for Ten Dollars (\$10) and other good and valuable consideration, IT IS AGREED AS FOLLOWS:

ARTICLE 1

STATUTORY PERSONNEL

Section 1.01 Statutory Staffing. The Public Defender Office agrees to provide for the Northeastern Judicial Circuit full-time staff for a circuit public defender office or offices consisting of a circuit public defender; an assistant public defender for each superior court judge authorized for the circuit, excluding the chief judge and senior judges; an investigator; and 2 additional persons to perform administrative, clerical or paraprofessional services.

Section 1.02 Statutory Services. The Public Defender Office agrees to provide representation to indigent defendants in the following cases:

- (1) Cases prosecuted in the Superior Court of Dawson County under the laws of the State of Georgia in which there is a possibility that a sentence of imprisonment or probation or suspension of sentence of imprisonment may be adjudged;
- (2) Hearings in the Superior Court of Dawson County on a revocation of probation;
- (3) Cases prosecuted in the Juvenile Court of Dawson County in which a child may face a disposition in a delinquency case of confinement, commitment or probation; and
- (4) Direct appeals from a decision in cases described in (1), (2), and (3) above.

Section 1.03 Conflicts. The Public Defender Office agrees to provide for legal representation by an attorney who is not an employee of the Public Defender Office in cases described in Section 1.02 in which the Public Defender Office has a conflict of interest.

ARTICLE 2

ADDITIONAL PERSONNEL AND SERVICES

Section 2.01 Additional personnel and services. The Public Defender Office agrees to provide and the County agrees to pay for the services and personnel described in Attachment A. The parties agree to the terms of Attachment A. Attachment A is incorporated into this agreement by reference. The amount to be paid in Attachment A includes a nonrefundable 5% administrative services fee. Any additional personnel employed by the Public Defender Office pursuant to this section are full-time state paid employees of the Public Defender Office in the unclassified service of the State Merit System of Personnel Administration with all the benefits provided by law to employees in the unclassified service. The additional personnel serve at the pleasure of the Northeastern Judicial Circuit Public Defender. The parties agree that the employment of additional personnel employed by the Public Defender Office pursuant to this section may be terminated by the Public Defender Office if the County does not pay for the cost of these personnel in advance in accordance with this agreement.

Section 2.02 Provision of additional county employees. The County agrees to pay for 50% of the personnel cost for two of the Hall County employees listed in Attachment B. The County agrees to the payment terms as enumerated in a separate intergovernmental agreement between Hall County and Dawson County. These employees are to remain employees of the Hall County. The County is the employer for these employees for all purposes, including, without limitation, compensation and employee benefits, but the employees are under the supervision of the circuit public defender. The circuit public defender shall define the duties and fix the title of these employees and the employees serve at the pleasure of the circuit public defender subject to any applicable County personnel policies. In the event that an employee listed in Attachment B leaves the employment of the County for any reason, whether voluntarily or involuntarily, the Public Defender Office is authorized to employ a person to replace the departed employee under the same terms and conditions as the departed employee (including salary) was employed, subject to the approval of the County, which approval shall not be unreasonably withheld. Attachment B is incorporated into this agreement by reference.

ARTICLE 3

PROVISION BY THE COUNTY OF ITS PRO RATA SHARE OF THE COSTS OF APPROPRIATE OFFICES, UTILITIES, TELEPHONE EXPENSES, MATERIALS, AND SUPPLIES AS MAY BE NECESSARY TO EQUIP, MAINTAIN, AND FURNISH THE OFFICE OR OFFICES OF THE CIRCUIT PUBLIC DEFENDER.

Section 3.01 Office expenses. The County agrees to pay its pro rata share of the operating expenditures for appropriate offices, utilities, telephone expenses, materials, and supplies to equip,

maintain, and furnish the office or offices of the Public Defender Office. Pro rata shall be the percentage obtained by using the population of the County by the U.S. decennial census of 2020 count as the numerator and the total population of the counties in the Northeastern Judicial Circuit from the same census population as the denominator.

ARTICLE 4

TRAVEL AND REIMBURSEMENT OF EXPENSES

Section 4.01 Travel and expense reimbursement. The County agrees to provide travel advances and to reimburse expenses which may be incurred in the performance of the employee's official duties under this agreement by an employee of the Public Defender Office to the extent the expenses are not reimbursed by the state and to the extent the expenses are authorized by the circuit public defender and the County. The County shall provide the Public Defender Office with the information concerning the travel advances and expense reimbursements required by the State Auditor.

ARTICLE 5

SALARY SUPPLEMENTS

Section 5.01 Salary supplements. The County agrees to supplement the salaries of the state employees of the Public Defender Office listed in Attachment C in the amount indicated in Attachment C. The salary supplement for these state employees is paid directly to the employee by the County and all payroll taxes and benefits associated with the salary supplement are paid by the County. The parties to this agreement agree that a state employee who receives a salary supplement pursuant to this Section is a state employee and is under the supervision of the circuit public defender and not of the county and that a state employee who receives a salary supplement pursuant to this Section is not a county employee. The County shall provide the Public Defender Office with the information concerning the salary supplement required by the State Auditor.

ARTICLE 6

MISCELLANEOUS

Section 6.01 Term. The term of this agreement is 1 year beginning January 1, 2025 and ending December 31, 2025.

Section 6.02 Maintenance of effort. The County agrees that it will continue to fund indigent defense for the term of this agreement, at a minimum, at the level of its most recent budgeted level of funding (calendar year 2020) for indigent defense and as part of this support the county agrees to provide the space, equipment and operating expenses necessary to effectively operate the circuit public defender office.

Section 6.03 Severability. Any section, subsection, paragraph, term, condition, provision or other part (hereinafter collectively referred to as "part") of this agreement that is judged, held, found, or declared to be voidable, void, invalid, illegal or otherwise not fully enforceable shall not affect any other part of this agreement, and the remainder of this agreement shall continue to be of full force and effect. Any agreement of the parties to amend, modify, eliminate, or otherwise change any part of this agreement shall not affect any other part of this agreement, and the remainder of this agreement shall continue to be of full force and effect.

Section 6.04 Cooperation, dispute resolution and jurisdiction. (a) The Public Defender Office and the County acknowledge that this agreement may need to be revised periodically to address new or unforeseen matters.

- **(b)** Each party to this agreement agrees to cooperate with the other party to effectuate and carry out the intent of this agreement.
- **(c)** This agreement, and the rights and obligations of the parties, are governed by, and subject to and interpreted in accordance with the laws of the State of Georgia. The parties acknowledge and agree that by law, the exclusive jurisdiction for contract actions against the state, departments and agencies of the state, and state authorities is the Superior Court of Fulton County, Georgia. The Parties further acknowledge that the Fulton Superior Court has a Court sponsored Arbitration and Mediation Program in which the Parties agree to fully participate.

Section 6.05 Notice. A notice to a party to this agreement shall be made in writing and shall be delivered by first class mail or personally to the person and at the address indicated below:

Circuit Public Defender Office	of Northeastern
Judicial Circuit:	
Circuit Public Defender	-
Street	-
GA, Zip Code	
Governing Authority of Dawson	n County:
Name	_
Street	-
GA,	_
City, Zip Code	

Georgia Public Defender Council Omotayo Alli, Director 270 Washington Street SW, Suite 6079 Atlanta, GA 30334

Section 6.06 Agreement modification. This agreement, including all attachments hereto, constitutes the entire agreement between the parties with respect to the subject matter of this agreement and may be altered or amended only by a subsequent written agreement of equal dignity; provided, however, that the parties' representatives identified in Section 6.05 may agree in writing by an exchange of letters or emails prior to the budget revision becoming effective to budget revisions which do not increase or decrease the total dollar value of the agreement. This agreement supersedes all prior agreements, negotiations and communications of whatever type, whether written or oral, between the parties hereto with respect to the subject matter of this agreement.

Section 6.07 Termination. (a) Due to non-availability of funds. In the event that either of the sources of reimbursement for services under this agreement (appropriations from the General Assembly of the State of Georgia, or appropriations from the governing authority of the County) is reduced during the term of this agreement, the Public Defender Office may make financial and other adjustments to this agreement and notify the County accordingly. An adjustment may be an agreement amendment or may be the termination of the agreement. The certification by the director of the Georgia Public Defender Council of the occurrence of reduction in State funds is conclusive. The certification of the occurrence of the reduction in county funds by the person named in Section 6.05 by the County to receive notices is conclusive. The County shall promptly notify the Public Defender Office in writing on the non-existence or insufficiency of funds and the date of termination. The Public Defender Office shall then immediately cease providing the services required hereunder except for any necessary winding down and transition services required under Section 6.08. In lieu of terminating this agreement, the County and the Public Defender Office may make financial and other adjustments to this agreement by amending it pursuant to Section 6.06.

(b) For cause. This agreement may be terminated for cause, in whole or in part, at any time by either party for failure by the other party to substantially perform any of its duties under this agreement. "Cause" means a breach or default of any material obligation hereunder which default is incapable of cure, or which, being capable of cure, has not been cured within 30 days after receipt of notice of such default (or such additional cure period as the non-defaulting party may authorize). Should a party exercise its right to terminate this agreement under this subsection, the termination shall be accomplished in writing and specify the reason and the termination date. In the event of termination under this subsection the Public Defender Office shall submit a final agreement expenditure report containing all charges incurred through and including the termination date to the County no later than 30 days after the effective date of written notice of termination and the County shall pay the amount due within 15 days of the receipt of the final agreement expenditure report. Upon termination of this agreement, the Public Defender Office shall not incur any new obligations after the effective date of the termination, except as required under Section 6.08. The above remedies contained in this subsection are in addition to any other remedies provided by law or the terms of this agreement.

- **(c) For Convenience.** This agreement may be cancelled or terminated by either of the parties without cause; however, the party seeking to terminate or cancel this agreement shall give written notice of its intention to do so to the other party at least 60 days prior to the effective date of cancellation or termination.
- **(d) Post-termination obligations**. After termination of this agreement pursuant to this Section, the Public Defender Office and the County agree to comply with the provisions of Section 6.08 (a).

Section 6.08 Cooperation in transition of services. (a) During or at the end of the agreement. The Public Defender Office agrees upon termination or expiration of this agreement, in whole or in part, for any reason to cooperate as requested by the County to effectuate the smooth and reasonable transition of services for existing clients. This includes but is not limited to the continuation of representation by Public Defender Office where appropriate or required by law, court rule or the State Bar of Georgia ethical standards or the facilitation of the timely transfer to the County of the client records. The County shall compensate the Public Defender for all post-termination or post-expiration services under this subsection. The Public Defender Office shall submit a monthly expenditure report containing all charges incurred during the preceding month on or before the 5th day of each month. The County shall pay the amount due within 15 days of the receipt of the monthly expenditure report. This subsection survives the termination or expiration of the agreement.

(b) Statutory responsibility continuation. The Public Defender Office and the County acknowledge that both have responsibilities for indigent defense costs under the Georgia Indigent Defense Act of 2003, as amended and that the termination or expiration of this agreement does not relieve either party of their responsibility under the law.

Section 6.09 Advance of Funds. The parties agree that advances of funds cannot remain outstanding following agreement termination or expiration and will be reclaimed. The parties agree that upon termination of this agreement, for any reason, all unexpended and unobligated funds held by the parties revert to the party entitled to the funds. The parties agree to reconcile expenditures against advances of funds within 30 days of termination of this agreement.

Section 6.10 Rollover of Funds. The County acknowledges that state agencies have a fiscal year from July 1 to June 30. The County agrees to authorize the Georgia Public Defender Council to roll over remaining county funds from the end of one fiscal year to the start of the new fiscal year.

Section 6.10 Time. Time is of the essence.

IN WITNESS WHEREOF, the parties have each here unto affixed their signatures the day and year first written above.

ATTEST:	
	Dawson County
	BY:
	Signature
	Title
ATTEST:	
	Circuit Public Defender
	BY:
	Signature
	Circuit Public
	Defender
ATTEST:	Consented to:
	Georgia Public Defender Council
	BY:
	Signature
	Director

Northeastern Judicial Circuit

ATTACHMENT A – Personnel Expenditures

Dawson County

January 1, 2025 – December 31, 2025

The County agrees to pay the Public Defender Office \$213,155.59 in 12 monthly
installments of \$17,762.97. Installments are due to the Georgia Public Defender Standards
Council (GPDSC) on the 15 th of the preceding month beginning on December 15, 2024.
Invoices will be sent to the following address:
Installments will be paid directly to GPDSC at the following address:
GPDSC
Attn: Jason Ring
270 Washington Street SW
Suite 6079
Atlanta, GA 30334

The Public Defender Office agrees to use these funds for the purpose of paying the salary and benefits for county funded public defenders and assistants.



DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA FORM

vvork Session:						
Voting Session:						
Public Hearing: Yes X No						
INTERGOVERNMENTAL AGREEMENT						
ic Defender Office's commencement of yees equally. The employees are Hall Agreement ("IGA"), Dawson County as set forth on Attachment A to the IGA						
approved in the 2025 budget. The IGA ty for the new Fiscal and Calendar Year						
Budgeted: Yes X No						
Balance Requested Remaining 08,680.20 \$108,680.20 0						
all Couniv.						
Date: 11/25/24						
Date: 11/25/24						
Date: 11/26/24						
County Manager Authorization: Date: Date: Date:						
п						

INTERGOVERNMENTAL AGREEMENT PUBLIC DEFENDER SERVICES

This Intergovernmental Agreement is hereby made and entered into by and between the Board of Commissioners of Dawson County, the governing authority of Dawson County, and the Board of Commissioners of Hall County, the governing authority of Hall County, as follows:

WHEREAS, Hall County and Dawson County comprise the Northeastern Judicial Circuit; and

WHEREAS, Dawson County has agreed to pay 50% of the personnel costs for an Assistant Public Defender I and an Investigator listed within "Attachment A" of a certain agreement between Dawson County and the circuit public defender office of the Northeastern Judicial Circuit, which is attached hereto and incorporated herein by reference.

NOW, THEREFORE, the parties hereto hereby agree that Dawson County shall pay to Hall County the sum of \$108,680.20 in four (4) equal quarterly installments of \$27,170.05 beginning March 31, 2025 (for the 1st quarter of 2025) and continuing through the end of each quarter of 2025 until one-half of the personnel costs for an Assistant Public Defender and an Investigator are paid.

Thisday of, 2024.	
DAWSON COUNTY, GEORGIA	ATTEST:
BY: Billy Thurmond, Chairman Dawson County Board of Commissioners	Kristen Cloud, County Clerk
HALL COUNTY, GEORGIA	ATTEST:
BY: Richard Higgins, Chairman Hall County Board of Commissioners	Jennifer Rivera, County Clerk

ATTACHMENT A TO INTERGOVERNMENTAL AGREEMENT BETWEEN HALL AND DAWSON COUNTIES

	Salaries	Health Ins.	Life Ins.	Retirement	FICA	Workers Comp.	TOTAL
Assist. Public Defender	\$ 99,910.02	\$ 21,063.24	\$ 399.84	\$ 7,992.80	\$ 7,643.12	\$ 1,121.00	\$ 138,130.02
Investigator	\$ 70,863.97	\$ 278.52	\$ 128.52	\$ 1,417.28	\$ 5,421.09	\$ 1,121.00	\$ 79,230.38
TOTAL							\$ 217,360.40
HALF COST FOR DAWSON							\$ 108,680.20

4 quarterly installments : \$ 27,170.05



DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA REQUEST FORM

Department: <u>Emergency Services</u>				Work Session: December 5, 2024			
Prepared By:	T. Leist			Voting Session: December 19, 202			
Presenter: <u>T.</u>	<u>Leist</u>			Public	Hearing: Yes	s No <u>Σ</u>	
Agenda Item	Title: Hazard	Mitigation Pla	n Resolution				
Background l	Information:						
and capab preferred m	litigation Plan ilities, selectir itigation action welfare of the i	ng appropriate s to eliminate	e actions, ar or reduce futu	nd developing	and implen	nenting the	
Current Infor	mation :						
disaster mit Program. D updated in a	I Emergency I igation plan in awson County accordance wi	place to be e 's Multi-Jurisd	eligible for fun lictional Hazaı	ding from the ding from the	Hazard Mitig	ation Grant	
Budget Information Applicable:	nation: Not App	olicable: XX		Budgete	ed: Yes	No	
Fund	Department	Account #	Budget	Balance	Requested	Remaining	
*If this item i	ersonnel-relate s being reques led justification	ted to move to	the same day	·	_		
Finance Depa	ntion/Motion: _ Head Authoriza nrtment Authoriza ger Authoriza	rization: Vicki			Date: <u>11</u> Date: <u>11</u> Date: <u>11</u>	/25/24	
Comments/A	ttachments:						



DAWSON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

2024 – 2029 UPDATE

Dawson County Emergency Management Agency









Dawson County Multi-Jurisdictional Hazard Mitigation Plan Update 2024

This document was funded in part by the Hazard Mitigation Planning Grant awarded to the Dawson County Emergency Management Agency by the Georgia Emergency Management Agency to fulfill the requirements of the Federal Disaster Mitigation Act of 2000. Dawson County Hazard Mitigation Plan 2024 was updated by the Dawson County Hazard Mitigation Plan Update Committee and was prepared by iParametrics, LLC. For additional information, please contact Dawson County Emergency Management Agency.

Chief Troy Leist

Dawson County Emergency Management Agency 393 Memory Lane
Dawson, Georgia 30534 tleist@dawsoncountyga.gov
706.344.3666

Prepared for:
The Dawson County Board of Commissioners
25 Justice Way
Dawsonville, Georgia 30534
706.344.3501
www.Dawsoncounty.org

The Dawsonville City Council 415 Highway 53 East, Suite 100 Dawsonville, Georgia 30534

706.265.3256

https://www.dawsonville-ga.gov/

Resolution - Dawson County, Georgia

WHEREAS, Dawson County and the City of Dawsonville recognize that it is threatened by a number of different natural and man-made hazards that can result in loss of life, property loss, economic hardship and threats to public health and safety; and

WHEREAS, the Federal Emergency Management Agency (FEMA) has required that every county and municipality have a pre-disaster mitigation plan in place, and requires the adoption of such plans in order to receive funding from the Hazard Mitigation Grant Program; and

WHEREAS, a Hazard Mitigation Plan is a community's plan for evaluating hazards, identifying resources and capabilities, selecting appropriate actions, and developing and implementing the preferred mitigation actions to eliminate or reduce future damage in order to protect the health, safety and welfare of the residents in the community; and

WHEREAS, the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 – 2029 Update has been prepared in accordance with FEMA requirements at 44 CFR 201.6; and

WHEREAS, the Plan will be updated every five years;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of Dawson County, Georgia and the Mayor and Council of the City of Dawsonville each meeting in respective session, that:

- 1. Dawson County, Georgia, the City of Dawsonville have adopted the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 2029 Update; and
- 2. It is intended that the Plan be a working document and is the first of many steps toward improving rational, long-range mitigation planning and budgeting for Dawson County and the City of Dawsonville.

PASSED, APPROVED AND ADOPTED by regular session this day of	the Dawson County Board of Commissioners in, 2024.
·	
Chairperson	
County Manager	

Resolution - City of Dawsonville, Georgia

WHEREAS, Dawson County and the City of Dawsonville recognize that it is threatened by a number of different natural and man-made hazards that can result in loss of life, property loss, economic hardship and threats to public health and safety; and

WHEREAS, the Federal Emergency Management Agency (FEMA) has required that every county and municipality have a pre-disaster mitigation plan in place, and requires the adoption of such plans in order to receive funding from the Hazard Mitigation Grant Program; and

WHEREAS, a Hazard Mitigation Plan is a community's plan for evaluating hazards, identifying resources and capabilities, selecting appropriate actions, and developing and implementing the preferred mitigation actions to eliminate or reduce future damage in order to protect the health, safety and welfare of the residents in the community; and

WHEREAS, the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 – 2029 Update has been prepared in accordance with FEMA requirements at 44 CFR 201.6; and

WHEREAS, the Plan will be updated every five years;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of Dawson County, Georgia and the Mayor and Council of the City of Dawsonville each meeting in respective session, that:

- 1. Dawson County, Georgia, the City of Dawsonville have adopted the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 2029 Update; and
- 2. It is intended that the Plan be a working document and is the first of many steps toward improving rational, long-range mitigation planning and budgeting for Dawson County and the City of Dawsonville.

PASSED, APPROVED AND ADOPTED by the Mayor and Council of the City of Dawsonville, Georgia in regular session this day of				
Dawsonvine, Georgia in regular 3033ion (day or	, 2024.		
John Walden, Mayor				
	<u></u>			
Beverly A. Banister, City Clerk				

Preface Mitigation Vision for the Future

Emergency Managers succeed or fail based on how well they follow the following fundamental principles of emergency management, mitigation, preparedness, response, and recovery. Purposefully, our emergency management forefathers put the word mitigation first as a "means" to prevent or minimize the effects of disasters.

Mitigation is commonly defined as sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects. Hazard mitigation focuses attention and resources on community policies and actions that will produce successive benefits over time. A mitigation plan states the aspirations and specific courses of action that a community intends to follow to reduce vulnerability and exposure to future hazard events. These plans are formulated through a systematic process centered on the participation of citizens, businesses, public officials, and other community stakeholders.

Mitigation forms, or should form, the very foundation of every emergency management agency. For the prevention of disasters in communities, emergency management agencies that adopt mitigation practices to reduce, minimize, or eliminate hazards in their community have found, the vision for the future of emergency management. The Federal Disaster Mitigation Act of 2000 has set the benchmark and outlines the criteria for communities with the vision to implement hazard mitigation practices in their communities.

Dawson County and the City of Dawsonville realize the benefits achieved by the development of mitigation plans and implementation of mitigation strategies in our community. Dawson County's elected officials, public safety organizations, planners, and many others have proven these benefits by working together towards the development and implementation of this plan and have the vision to implement mitigation practices therefore reducing the loss of life and property in their communities.

The areas covered by this plan include:

Dawson County

City of Dawsonville

Executive Summary

Overview

The Dawson County Hazard Mitigation Plan Update aims to affirm the County's commitment to resilience by identifying, assessing, and reducing risk to life and property from hazard events. The plan outlines how the County will approach mitigation efforts within the boundaries of Dawson County in accordance with Federal Emergency Management Agency (FEMA) guidelines. It identifies hazard mitigation goals, objectives, and recommended mitigation actions for the County that will reduce injury and damage from natural and human-caused hazard incidents. The Federal Disaster Mitigation Act of 2000 requires all municipalities that wish to be eligible to receive FEMA hazard mitigation grants to adopt a local multi-hazard mitigation plan and update the plan every five years. Dawson County's Hazard Mitigation Plan was approved by FEMA in 2012, and the 2018 Plan Update provided the first five-year update. The City of Dawsonville approved the plan to make it a multi-jurisdictional plan. The City of Dawsonville has been critical in this 2024 update and has sought approval from its City Commission. This approved Hazard Mitigation Plan makes Dawson County and its municipality eligible for FEMA's Hazard Mitigation Grant Program, Flood Assistance Mitigation Grants, and Pre-Disaster Mitigation Grants.

The scope of the Dawson County Hazard Mitigation Plan Update encompasses all areas of Dawson County, including the City of Dawsonville. The Plan identifies all natural and technological hazards that could threaten life and property in Dawson County. The scope of this Plan includes both short and long-term mitigation strategies with implementation and possible sources of project funding. The Hazard Mitigation Plan Update is organized to incorporate the requirements of Rule 44 CFR 201.6 as well as FEMA Guidance.

Planning Overview

The plan is divided into the following parts to address FEMA requirements for a local Hazard Mitigation Plan:

- Chapter 1: Introduction
- Chapter 2: Dawson County Profile
- Chapter 3: Hazard Profiles
- Chapter 4: Hazard Mitigation Strategies
- Chapter 5: Plan Implementation and Maintenance

The update of the plan was overseen by the Dawson County Hazard Mitigation Plan Update Committee with the assistance of a contractor, iParametrics. The Committee members were the following:

Agency	Representative
Emergency Management Director	Chief Troy List
Etowah Water and Sewer Authority	Brooke Anderson, PE
Georgia Forestry Commission	Wesley Sisk
Dawson County Sheriff's Office	Greg Rowan
Dawson County Schools	Tony Wooten
Dawson County Commissioner	Emory Dooley
Big Canoe POA	Ricky Jordan
Dawson County Parks and Recreation	Matt Payne
Big Canoe	Lydell Mack

Development Authority of Dawson County	Kevin Herrit
Dawson County Chamber of Commerce	Mandy Power
Dawson County Emergency Services	Johnny Irvin
City of Dawsonville	Bob Bolz
City of Dawsonville Public Works	Trampas Hansard
Dawson County Public Works	Robert Drewry

Monthly committee meetings were held to review all aspects of the Dawson County Hazard Mitigation Plan Update. This process ensures resiliency throughout the County to be prepared for, respond to, and recover from the most common and likely hazardous events to impact the county. It is important that state and local government, public-private partnerships, and community citizens can see the results of these mitigation efforts; therefore, the goals and strategies need to be achievable.

The Dawson County Hazard Mitigation Plan Update Committee identified the following goals during plan development:

- **GOAL 1:** Protect the public health and safety.
- **GOAL 2:** Harden community assets against the impact of disasters through the development of new mitigation strategies and enforcement of current regulations.
- **GOAL 3:** Reduce and where possible, eliminate loss of life and damage to property from disasters especially with repetitive damaged properties.
- **GOAL 4:** Maintain continuity of public and private sector operations during and after hazard events.
- **GOAL 5:** Respond promptly, appropriately, and efficiently in the event of natural or manmade hazards.

Hazards

The planning work resulted in an updated list of hazards that could impact Dawson County's residential communities, businesses, and infrastructure. The tables below show the hazardous event categories ranked in order of likelihood with a comparison of historic and annual expected loss ratios.

Threat to Buildings					
Annualized Frequency		Historic Loss Ratio		Annual Expected Loss Ratio	
Hazard	Rank	Hazard	Rank	Hazard	Rank
Thunderstorm	1	Wildfire	1	Tornado	1
Drought	2	Earthquake	2	Flooding	2
Extreme Heat	3	Tornado	3	Thunderstorm	3
Extreme Cold	4	Flooding	4	Wildfire	4
Tornado	5	Hurricane	5	Earthquake	5

Winter Weather	6	Ice Storm	6	Ice Storm	6
Ice Storm	7	Thunderstorm	7	Extreme Heat	7
Flooding	8	Extreme Cold	8	Hurricane	8
Hurricane	9	Extreme Heat	9	Extreme Cold	9
Earthquake	10	Winter Weather	10	Winter Weather	10
Wildfire	11	Drought	11	Drought	11

Threat to People					
Annualized Frequency		Historic Loss Ratio		Annual Expected Loss Ratio	
Hazard	Rank	Hazard	Rank	Hazard	Rank
Thunderstorm	1	Tornado	1	Tornado	1
Drought	2	Earthquake	2	Extreme Heat	2
Extreme Heat	3	Wildfire	3	Extreme Cold	3
Extreme Cold	4	Flooding	4	Flooding	4
Tornado	5	Extreme Heat	5	Thunderstorm	5
Winter Weather	6	Extreme Cold	6	Winter Weather	6
Ice Storm	7	Thunderstorm	7	Earthquake	7
Flooding	8	Winter Weather	8	Ice Storm	8
Hurricane	9	Hurricane	9	Wildfire	9
Earthquake	10	Ice Storm	10	Hurricane	10
Wildfire	11	Drought	11	Drought	11

Specific impacts were explored for Dawson County and the City of Dawsonville with detailed evaluations conducted across the County. Historical and future predicted impacts, including those due to climate change and population growth were studied and addressed for each hazard. Where data existed, specific data was utilized from agencies and organizations such as:

- National Weather Service
- National Oceanic and Atmospheric Administration
- Centers for Disease Control and Prevention
- Department of Homeland Security
- Federal Emergency Management Agency
- United States Geological Survey
- United States Department of Agriculture
- Federal Bureau of Investigation
- Cybersecurity and Infrastructure Security Agency

Mitigation Strategy

It is essential that State and local government, public-private partnerships, and the average citizen can see the results of these mitigation efforts. Therefore, the goals and strategies need to be achievable.

The mitigation goals and objectives form the basis for developing specific mitigation actions. County and municipal officials should consider the listed goals before making community policies, public investment programs, economic development programs, or community

development decisions for their communities. The goals of Dawson County have changed slightly in the last five years (since 2012) due to specific threat events, such as the snow and ice storms of 2014 and Hurricane Irma in 2017. The 2014 Ice Storms, in particular, led to changes at the State and local levels regarding the importance of winter weather preparedness for the general public and the response-ability of local jurisdictions, including Dawson County. Due to the recent occurrence of natural hazards and the significant damage they have caused, mitigation strategies have become a top priority. There is now more focus on developing new strategies to prevent these events from happening and to minimize their impact when they do occur.

The Dawson County Hazard Mitigation Plan update covers two jurisdictions: Dawson County and the City of Dawsonville. However, these jurisdictions have limited capacity to implement all the mitigation actions described in the plan. This is because these jurisdictions are small in population and tax base, making raising sufficient revenue to pursue many actions difficult. Also, there is a lack of financial strength and staffing to implement all the actions described in the plan. To achieve the goals outlined in the plan, many actions will be pursued through grant programs and by collaborating with public and private organizations that can provide additional resources. For actions where grant funding partnerships are unavailable, Dawson County or municipality revenue streams may be supplemented through Special Purpose Local Option Sales Tax (SPLOST) funds, voted on by the electorate.

- **GOAL 1:** Maximize the use of all resources by promoting intergovernmental coordination and partnerships in the public and private sectors.
- **GOAL 2:** Harden community assets against the impacts of disasters by developing new mitigation strategies and enforcing current regulations.
- **GOAL 3:** Minimize loss of life and property damage from disasters, especially for repetitive damaged properties.
- **GOAL 4:** Increase community awareness about potential hazards and the need for preparedness.

These objectives outline specific outcomes that Dawson County aims to achieve over the next five years. Action steps are the necessary steps to reach these objectives. The objectives are not listed in order of importance.

- **OBJECTIVE 1:** Our first objective is to reduce loss of life, damage to property, and minimize impacts on local citizens, industry, and infrastructure from identified hazards.
- **OBJECTIVE 2:** We aim to provide advanced severe weather warnings to help citizens take precautionary measures and stay safe.
- **OBJECTIVE 3:** Our third objective is to provide educational awareness to citizens about the dangers and impacts of the identified hazards.
- **OBJECTIVE 4:** We will implement initiatives to protect our water resources and provide wildfire protection.

OBJECTIVE 5: We aim to increase the capacity of Dawson County, the City of

Dawsonville, Etowah Water and Sewer, Dawson County Schools, and its

citizens to respond to identified hazards.

OBJECTIVE 6: We will ensure continuity of critical operations before, during, and after

hazard events.

OBJECTIVE 7: We will evaluate and implement additional protective measures and

capabilities in response to identified hazards, wherever possible.

Next Steps

To adhere to best practices, state and federal guidelines, and lessons learned, the Dawson County Hazard Mitigation Plan Update Committee has developed a method to ensure the regular review and update of the Plan occurs. Plan maintenance protocols identified during the 2012 Dawson County Hazard Mitigation Plan and 2017 Plan Update were followed to the best of Dawson County's abilities. The Dawson County Hazard Mitigation Plan Update Committee will reconvene annually to monitor and evaluate the progress of the mitigation strategies in the Plan. Dawson County's Emergency Management Director, Troy Leist, will be responsible for implementing this meeting. The Committee will discuss the following guestions annually:

- Do the goals address current and expected hazards and conditions?
- Are the goals and objectives still relevant to the County?
- Has the nature or magnitude of risks changed?
- Does the risk assessment portion of the Plan need to be updated or modified?
- Are the goals and objectives meeting changes in state and federal policy?
- Are the current resources appropriate for implementing the Plan?
- Are there local implementation problems, such as technical, political, legal, or coordination issues with other agencies?
- Did the jurisdictions, agencies, and other partners participate in the plan implementation process as proposed?

The responsible parties will provide a report at the annual meeting on their mitigation strategies. The report will address the following topics:

- During the implementation, were there any difficulties encountered?
- How successful was the coordination of efforts?
- Are there any suggestions for revising any mitigation strategies?

Dawson County's Emergency Management Director will send the minutes from this annual meeting to Dawson County Commissioners and City and Town Councils for review. If there are any updates or modifications to the Dawson County Hazard Mitigation Plan, the Emergency Management Director will forward the changes to the Georgia Emergency Management Agency's Hazard Mitigation Officer. The Dawson County Hazard Mitigation Plan's annual reviews will be open to the public. These meetings will be advertised in local newspapers, as well as on signage in the publicly used facility where the meeting is hosted. Additionally, an online platform will be provided for members of the public to join the meetings.

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Chapter 1. Introduction

1.1. Summary of Updates for Chapter 1

The following table provides a description of each section of this chapter and a summary of the changes that have been made to the Dawson County Hazard Mitigation Plan 2018.

Chapter 1 Section	Updates
Introduction	Update of goals
Authority	No update
Funding	Update of funding information
Scope	No update
Purpose	Updated from 2018 Mitigation Plan
Consistency with Federal Guidelines	Update of information
Plan Review	Updated from 2018 Mitigation Plan
Hazard Mitigation Plan Update Committee	Updated committee list to match the 2024 planning participants
Public Participation	Updated from 2018 Mitigation Plan
Multi-Jurisdictional Considerations	Updated with requirement descriptions
Incorporation of Existing Plans, Studies, and Resources	Updated from 2018 Mitigation Plan

1.2. Introduction

The Dawson County Hazard Mitigation Plan Update is the first phase of a multi-hazard mitigation strategy for the entire community. This Plan encourages cooperation among various organizations and crosses political sub-divisions. As written, this Plan fulfills the requirements of the Federal Disaster Mitigation Act of 2000. The Federal Disaster Mitigation Act of 2000 provides federal assistance to state and local emergency management agencies and other disaster response organizations to reduce damage from disasters. The Act is administered by the Georgia Emergency Management Agency (GEMA) and the Federal Emergency Management Agency (FEMA).

It is important that state and local government, public-private partnerships, and community citizens can see the results of these mitigation efforts; therefore, the goals and strategies need to be achievable. The Dawson County Hazard Mitigation Plan Update Committee identified the following goals during plan development to reflect changes in community priorities:







- **GOAL 1:** Protect the public health and safety.
- GOAL 2: Harden community assets against the impact of disasters through the development of new mitigation strategies and enforcement of current regulations.
- **GOAL 3:** Reduce and where possible, eliminate loss of life and damage to property from disasters especially with repetitive damaged properties.
- **GOAL 4:** Maintain continuity of public and private sector operations during and after hazard events.
- **GOAL 5:** Respond promptly, appropriately, and efficiently in the event of natural or manmade hazards.

This plan complies with all requirements and scope of work as described in Dawson County's Hazard Mitigation Grant application.

1.3. Authority

In the past, federal legislation has provided funding for disaster relief, recovery, and some hazard mitigation planning. The Disaster Mitigation Act of 2000 is the latest legislation to improve the planning aspect of that process. The Act reinforces the importance of mitigation planning and emphasizes planning for disasters before they occur. The Act establishes a predisaster hazard mitigation program and designates new requirements for the national post-disaster Hazard Mitigation Grant Program (HMPG). Section 322 of the Act identifies the new requirements for planning activities and increases the amount of HMPG funds available to states that have developed a comprehensive mitigation plan prior to the disaster.

State and local communities must have an approved mitigation plan in place prior to receiving post-disaster HMGP funds. Local mitigation plans must demonstrate that their proposed mitigation measures are based on a sound planning process that accounts for the risk to and the capabilities of the individual communities. To implement the new DMA 2000 requirements, the Federal Emergency Management Agency (FEMA) prepared an Interim Final Rule, published in the Federal Register on February 26, 2002 at 44 CFR Parts 201 and 206, which establishes planning and funding criteria for states and local communities.

Developed in accordance with current state and federal rules and regulations governing local hazard mitigation plans, Dawson County's Updated Hazard Mitigation Plan will be brought forth to each participating jurisdiction in Dawson County to be formally adopted. The Plan shall be routinely monitored and revised to maintain compliance with the following provisions, rules, and legislation:

Section 322, Mitigation Planning, of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as enacted by Section 104 of the Disaster Mitigation Act of 2000 (P.L. 106-390); and

FEMA's Interim Final Rule was published in the Federal Register on February 26, 2002, at 44 CFR Part 201.







1.4. Funding

The Georgia Emergency Management Agency awarded Dawson County a \$30,000 Hazard Mitigation Planning Grant for the update of Dawson County's 2012 Hazard Mitigation Plan. The grant requires a 25% match by Dawson County, which was fulfilled by utilizing "in-kind" services. In-kind service documentation is available upon request.

1.5. Scope

The scope of the Dawson County Hazard Mitigation Plan Update encompasses all areas of Dawson County, including the City of Dawsonville. The Plan identifies all natural and technological hazards that could threaten life and property in Dawson County. The scope of this Plan includes both short and long-term mitigation strategies with implementation and possible sources of project funding.

The Hazard Mitigation Plan Update is organized to incorporate the requirements of Rule 44 CFR 201.6 as well as FEMA Guidance.

Chapter One includes an overview of the Hazard Mitigation Plan Update, the overall goals of the plan, and details of the planning process as required by Rule 44 CFR 201.6©(1) as well as FEMA Guidance.

Chapter Two of the Plan details the Dawson County profile, including the demographics, municipality, and history of Dawson County.

Chapter Three identifies the risk assessment process, past natural hazard events with associated losses, and current natural hazard risks. Potential losses are also analyzed as required by Rule 44 CFFR 201.6(c)(2) as well as FEMA Guidance. Additionally, Chapter Three identifies and analyzes potential technological hazards faced by Dawson County.

Chapter Four identifies Dawson County's hazard mitigation goals and objectives, mitigation strategies and actions, and sources of potential funding for mitigation projects as required by Rule 44 CFR 201.6(c)(3) as well as FEMA Guidance.

Chapter Five identifies the plan maintenance and implementation strategies. The process for evaluation of the hazard mitigation plan implementation progress is also detailed as required by Rule 44 CFR 201.6as well as FEMA Guidance.

1.6. Purpose

The purpose of the Dawson County Hazard Mitigation Plan Update is to:

- Protect life, promote safety, and preserve property by reducing the potential for future damages and economic losses that result from natural and technological hazards;
- Make communities in Dawson County safer places to live, work, and play;
- Qualify for grant funding in both the pre-disaster and post-disaster environments;
- Speed recovery and redevelopment following future disaster events;
- Demonstrate a firm local commitment to hazard mitigation principles; and
- Comply with state and federal legislative requirements for local multi-jurisdictional hazard mitigation plans.







1.7. Consistency with Federal and State Mitigation Policies

The Plan is intended to enhance and complement state and federal recommendations for the mitigation of natural and technological hazards in the following ways:

- Substantially reduce the risk of life, injuries, and hardship from the destruction of natural and technological disasters on an ongoing basis;
- Create a greater awareness for the public about the need for individual preparedness and for building safer, more disaster-resistant communities;
- Develop strategies for long-term community sustainability during community disasters; and.
- Develop governmental and business continuity plans to continue essential private sector and governmental activities during disasters.

The Federal Emergency Management Agency publishes many guidance documents for local governments for mitigating natural disasters. The updated Dawson County Hazard Mitigation Plan fully recognizes, adopts, incorporates, and endorses the following principles:

- Develop a strategic mitigation plan for Dawson County;
- · Enforce current building codes;
- Develop incentives to promote mitigation;
- Incorporate mitigation of natural hazards into land use plans;
- Promote awareness of mitigation opportunities and programs throughout our community continually; and,
- Identify potential funding sources for mitigation projects.

The private sector is often an overlooked segment of the community during disasters. It is vital that this sector of a community is included in mitigation efforts that are consistent with state and federal recommendations, such as the following:

- Encourage the creation of a business continuity plan for the continuance of commerce during disasters; and,
- Partner with businesses to communicate with customers about the hazards in our community and possible solutions.

Individual citizens must be made aware of the hazards they may encounter. Additionally, they must be educated on protecting themselves from the hazards they face. They must be shown that mitigation in their community is an important part of reducing loss of life and property. Their support is critical to the success of any mitigation effort. The updated Dawson County Hazard Mitigation Plan supports the following FEMA recommendations regarding individual citizens:

- Become educated on the hazards that citizens may encounter;
- Become part of the process by supporting and encouraging mitigation programs that reduce vulnerability to disasters; and,
- An individual's responsibility is to safeguard his/her family and themselves prior to a disaster event.

1.8. Plan Review

The contracted planner, iParametrics, LLC, was primarily responsible for collecting updated information and presenting data to the committee. The approved 2018 Hazard Mitigation Plan was provided to each Hazard Mitigation Plan Update Committee member. Each chapter was reviewed with updated hazard, risk, and vulnerability data; updated critical infrastructure







information; and revised mitigation strategies based upon whether the strategy was completed, needed to be modified, is an ongoing strategy, or no longer applies. All meetings were held virtually. Irregularly attending participants were kept informed with emails containing the updated version of the plan.

Table 1.1 Dawson County Hazard Mitigation Plan Update Meeting Dates

Tuesday, April 4, 2023	Kick-off meeting, Review of Current Plan, Hazards Currently Listed, Future Concerns of the County
Tuesday, May 2, 2023	Current Existing Plans, County Economy, Disaster Declarations
Thursday, June 8, 2023	Discussion of Goals and Objectives in the Plan, Data Needed for Analysis
Tuesday, July 11, 2023	Review of Mitigation Action Items, Data Analysis
Tuesday, August 8, 2023	Critical Facilities, Data Analysis Progress;
Thursday, Sept.19, 2023	Data Analysis, Plan Update Next Steps, Public Comment Plan
Monday, January 29, 2024	Mitigation Plan Final Draft

Each section of Dawson County's 2018 Hazard Mitigation Plan has been revised in some manner. Therefore, a summary of those changes will be listed in the first section of each chapter. Major plan changes include the following:

- Addition of Extreme Temperatures, Cyberattack, Hurricanes, and Active Threat/Shooter
- Additional data from previous years
- Additional information regarding Emerging Infectious Disease with insight from the COVID-19 Pandemic

1.9. Hazard Mitigation Plan Update Committee

The following members, representing various jurisdictions, city and county departments, and community organizations and businesses, participated in Dawson County's 2024 Hazard Mitigation Plan update. The list of the Committee from the 2018 update can be found in Appendix B.

Chief Troy List
Fire Chief and Emergency Management Director
Dawson County

Brooke Anderson, PE General Manager Etowah Water and Sewer Authority

Wesley Sisk County Chief Ranger Georgia Forestry Commission







Greg Rowan Chief Deputy Dawson County Sheriff's Office

Tony Wooten Safe Schools Coordinator Dawson County Schools

Emory Dooley
District 4
Dawson County Commissioner

Ricky Jordan
Director of Public Safety
Big Canoe POA

Matt Payne
Director
Dawson County Parks and Recreation

Lydell Mack Director of Operations Big Canoe

Kevin Herrit
Director of Economic Development
Development Authority of Dawson County

Mandy Power
President/CEO
Dawson County Chamber of Commerce

Johnny Irvin
Operations Division Chief
Dawson County Emergency Services

Bob Bolz City Manager City of Dawsonville

Trampas Hansard
Operations Manager
City of Dawsonville Public Works

Robert Drewry
Public Works Director
Dawson County

Dawson County convened the Hazard Mitigation Plan Update Committee, which comprises representatives from various participating jurisdictions. The Committee worked with iParametrics,







LLC, and provided input at key process stages. Efforts were made to involve municipal, city, and county departments and community organizations that might have a role in implementing the mitigation actions or policies. These efforts included meeting invitations, e-mail updates, and opportunities for input and comment on all draft deliverables. Representative email invitations are included in Appendix B.

In addition to the Dawson County Hazard Mitigation Plan Update Committee, all surrounding counties – Cherokee, Fannin, Forsyth, Gilmer, Hall, Lumpkin, and Pickens – were invited to participate in the planning process and provided a copy of the draft plan for their review. This plan was provided to each County EMA office.

1.10. Public and Additional Stakeholder Participation

Public awareness is a key component of any community's overall mitigation strategy to protect a home, neighborhood, school, business, or city from the potential effects of natural hazards. As citizens become more involved in decisions that affect their safety, they are more likely to gain a greater appreciation of the natural hazards present in their community and take the steps necessary to reduce their impact.

The Dawson County Hazard Mitigation Plan Update Committee took it upon themselves to ensure the processes undertaken for the development, implementation, and maintenance of the Dawson County Hazard Mitigation Plan Update adequately considered public needs and viewpoints.

A list of public and additional stakeholder outreach initiatives can be found below:

- Between February 2, 2024 and February 28, 2024, the draft Plan was open for public comment, providing the public with the opportunity to review and offer feedback. This period allowed for valuable input to be considered before finalizing the Plan, ensuring that local concerns and suggestions were incorporated into the approach. During the public comment period, the Plan was posted on the main Dawson County website as an information header as well as on the City of Dawsonville website.
- A public meeting was held on February 15, 2024, during the Dawson County Board of Commissioner's Work Session for the public to comment on the 2024 Dawson County Multi-Jurisdictional Hazard Mitigation Plan. This meeting was advertised on the Dawson County webpage. No public comments were provided.
- A public presentation was held on November 13, 2024 at the Dawson County Library, and an information table was hosted on November 15, 2024 at the Dawson County Senior Center to introduce and answer questions about the 2024 Dawson County Multi-Jurisdictional Hazard Mitigation Plan to interested residents and stakeholders. The meeting and information table aimed at the general public as well as local businesses, organizations, non-profits, community organizations, and vulnerable populations, such as the County's seniors. The events were advertised via a flyer that was physically posted in the Dawson County Courthouse, Dawsonville City Hall, Dawson County Library, Dawson County Chamber of Commerce, virtually posted on the Dawson County EMA's and the Dawson County Chamber of Commerce's social media pages, and included in the Dawson County Chamber of Commerce's newsletter that gets sent to over 800 recipients. 1 stakeholder attended the meeting at the Library. 15 seniors were at the Senior Center during the information table, but no questions were asked.

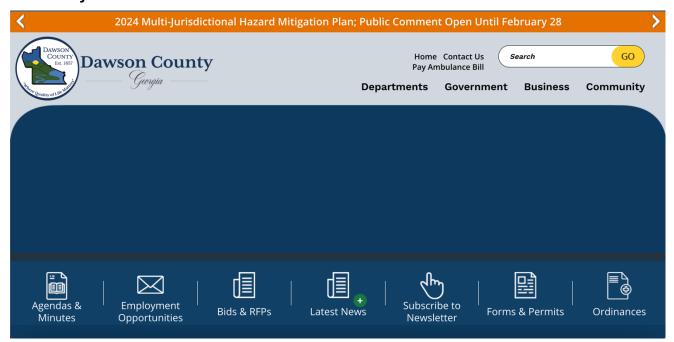


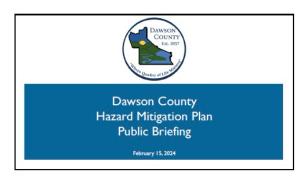




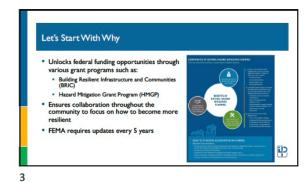
1.11. Documentation of Public Meeting Presentation, Agenda, and Notices

February 2024 Materials











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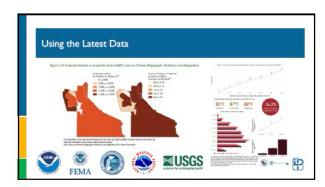




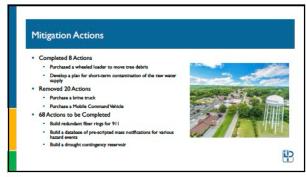


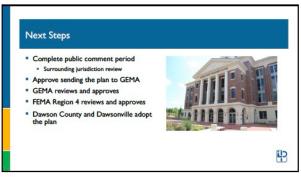












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DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA FORM

Department:	Emergency Se	ervices		Work	Session: Febr	uary 15, 2024
Prepared By: _	Troy Leist			Voting	Session: Mar	ch 7, 2024
Presenter: Jeff	Stevens, iPara	metrics		Public I	Hearing: Yes _	No <u>X</u>
Agenda Item T	itle: Hazard Miti	igation Plan Ap	proval and Ado	otion		
Background In	formation:					
Every five ye	ars the county r	must update its	Hazard Mitigati	on Plan.		
Current Informa	ation:					
	azard Mitigatior		•	•		
	pleted plan and	•	•		m an statemore	CIS. WC NOW
Budget Informa	ation: Applicab	le: Not	Applicable:	Budgeted:	Yes N	0
Fund	Dept.	Acct No.	Budget	Balance	Requested	Remaining
Pecommendat	ion/Motion:					
					Data: 2	15 2024
———	ead Authorizatio	inLeist		_	Date: <u>2</u> -	15-2024
Finance Dept.	Authorization: <u>\</u>	ickie Neikirk			Date: <u>2/5/</u>	<u>24</u>
County Manag	er Authorization	: Joey Leveret	te		Date: <u>2</u> -	-5-24
County Attorney Authorization:				Date:	_	
Comments/Atta	achments:					
			3			
L						







November 2024 Materials

Dawson County

Multi-Jurisdictional Hazard Mitigation Plan Public Meetings

The Dawson County Emergency Management Agency is pleased to share the 2024 draft Hazard Mitigation Plan. The plan is important because it helps the County plan and receive funding for projects that reduce the risk of injury or damage to property from future hazard events, such as flooding and severe storms.

The Dawson County Emergency Management Agency will hold a public meeting and host an information table on the draft update to the Hazard Mitigation Plan to introduce the Plan to the community, answer any questions, and solicit feedback.

Public Meeting

Wednesday, November 13, 2024 3:30 to 4:30 PM

Dawson County Library 342 Allen Street Dawsonville, Georgia 30534

Information Table

Friday, November 15, 2024 9:30 to 10:45 AM

Pauline Stephens Ivey Senior Life Center 237 Recreation Road Dawsonville, Georgia 30534

For any questions or additional details:

Ariel Mallett

Project Consultant

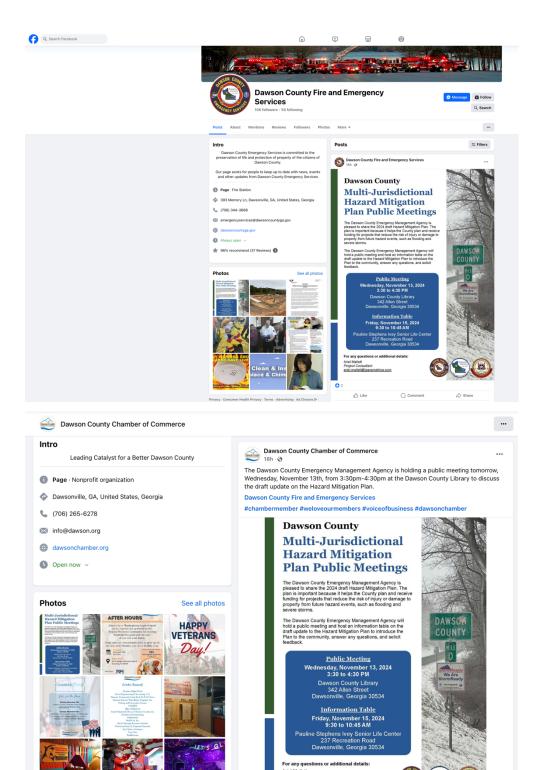
ariel.mallett@iparametrics.com

















View this email in your web brows



"Cultivating a successful economic environment and a desirable quality of life for our **businesses** and community."

Tuesday, November 12th



















1.12. Multi-Jurisdictional Considerations

While cities are not required by FEMA to adopt hazard mitigation plans, the Federal Disaster Mitigation Act of 2000 requires all municipalities that wish to be eligible to receive FEMA hazard mitigation grants to adopt a local multi-hazard mitigation plan and to update the plan every five years. Dawson County's Hazard Mitigation Plan was approved by FEMA in 2012, and the 2018 Plan Update provided the first five-year update. The City of Dawsonville approved the Plan to make it a multi-jurisdictional plan. The City of Dawsonville has been critical in this 2024 update and they have sought approval from their City Commission as well. This approved Hazard Mitigation Plan makes Dawson County and its municipality eligible for FEMA's Hazard Mitigation Grant Program, Flood Assistance Mitigation Grants, and Pre-Disaster Mitigation Grants.

As set forth by Georgia House Bill 489, the Emergency Management Agency is the implementing agency for projects pertaining to hazard mitigation. Dawson County is dedicated to working in the best interests of the County as well as the City of Dawsonville. During the creation and update of this Plan, Dawson County Emergency Management Agency solicited and received participation from the City of Dawsonville. Therefore, the result is a truly multi-jurisdictional plan. A few mitigation action steps identified in this Plan update may apply to selected jurisdictions. These steps are identified in the appropriate sections. Unless specifically noted otherwise, most steps apply equally to all jurisdictions.

1.13. Incorporation of Existing Plans, Studies, and Resources

Existing Plans

- 2018 Dawson County Multijurisdictional Hazard Mitigation Plan
- 2019 State of Georgia Hazard Mitigation Plan
- Dawson County Local Emergency Operations Plan
- Georgia Forestry Commission's Dawson Co. Community Wildfire Protection Plan 2013-2033 Dawson County Joint Comprehensive Plan
- 2018 Dawson County HAZUS Report

Studies

- 2020 United States Census
- 2022 United States Census Estimates
- 2012 United States Department of Agriculture Ag Census
- 2009 Dawson County Flood Insurance Study
- Radeloff, V. C., R. B. Hammer, S. I Stewart, J. S. Fried, S. S. Holcomb, and J. F. McKeefry. 2005. The Wildland Urban Interface in the United States. Ecological Applications 15:799-805.

Resources

- 2014 City of Boston Natural Hazard Mitigation Plan Update
- 2010 Camden County Joint Hazard Mitigation Plan Update
- 2010 Northern Virginia Hazard Mitigation Plan Update National Climactic Data Center
- National Weather Service
- Dawson County Tax Assessor's Data
- Dawson County Website
- GMIS Database
- City University of New York







- Colorado State University
- United States Geological Survey
- FEMA Flood Insurance Rate Maps National Flood Insurance Program
- United States Coast Guard National Response Center Data
- Georgia Department of Transportation
- Georgia Safe Dams Program

1.14. Application of Existing Plans and Studies

Existing Planning Mechanism	Reviewed? (Yes/No)	Incorporation into Mitigation Plan
2018 Dawson County Multi- Jurisdictional Hazard Mitigation Plan	Yes	Baseline for the 2024 Plan; updated mitigation strategies; updated hazards; updated Dawson County information
2019 State of Georgia Hazard Mitigation Plan	Yes	Hazard descriptions; potential hazards; mapping mechanisms; potential mitigation strategies that could be adopted on a local level
Dawson County Local Emergency Operations Plan (LEOP)	Yes	Identification of current resources; identification of current capabilities
Georgia Forestry's Dawson County Community Wildfire Protection Plan (CWPP)	Yes	Mitigation strategies for wildfire and drought; historical data
2012 USDA Agriculture Census	Yes	Agricultural data regarding potential losses for drought and wildfire
2010 United State Census and 2015 United States Census Estimates	Yes	To update Dawson County's profile information
2009 Dawson County Flood Insurance Study	Yes	Identify potential flood prone areas; prioritization of flood- related mitigation strategies
2013-2033 Dawson County Comprehensive Plan	Yes	To identify future development trends; identify mitigation strategies to curb trends in a direction that considers the hazards of the area
2018 Dawson County HAZUS Report	Yes	To assist with risk and vulnerability assessment; Identify potential hazard impacts and damages
Dawson County Flood Mitigation Assistance Plan	No	No such plan exists







Chapter 2. Dawson County Profile

2.1. Summary of Updates for Chapter Two

The following table provides a description of each section of this chapter and a summary of the changes made to the Dawson County Hazard Mitigation Plan 2018.

Chapter 2 Section	Updates
Past Hazards	 Additional Hazards have been added over the last 5 years
History	 Information updated as needed
Past Events	 New events that have occurred in the last 5 years have been added
Demographics	 Updated data to the 2020 Census information and 2022 Census Estimates
Economy	Relevant information updated from the previous plan
Government	No update needed
Transportation	Relevant information updated
Climate	Average temperature Chart removed
Utilities	No update needed
NFIP Compliance	No update needed

2.2. Past Hazards

Dawson County has faced many hazards in its long history. Severe Thunderstorms have been, perhaps, the most prevalent of these hazards. In the last 50 years, Dawson County has been subjected to 103 documented Severe Thunderstorm events. These events include torrential rainfall, hail, thunderstorm-force winds, and lightning.

Tornadoes, which can sometimes spawn from severe thunderstorms, have also occurred in Dawson County, although with much less frequency. There have been two documented tornadoes in the last fifty years in Dawson County.

Because of heavy rainfall either within or upstream from Dawson County, flooding has occurred in the past as well. Documentation of 13 flooding events exist within the National Climactic Data Center of the National Weather Service for Dawson County.

Winter storms and heavy snowfall have affected Dawson County infrequently in the last 50 years. These events are not a yearly occurrence and typically do not have the pre-planning in place when compared to Northern and Western states who see this type of weather phenomena regularly. The NCDC record 60 documented winter storm or heavy snow events for Dawson County with 13 of those having occurred in the last five years.







Dawson County has been plagued by other less severe or less frequent hazards in the past. These hazards include, but are not limited to, the following: drought, excessive heat, tropical cyclones, earthquakes, and wildfires.

Dawson County has had 12 Federally Declared disasters. These events include tornadoes (1974), drought (1977), winter storms (1993, 2000, 2014, 2015), Tropical Cyclones (1995, 2004, 2020), Storms/Flooding events (1998, 2009), and the COVID -19 Pandemic (2020).

2.3. History

Dawson County was created by a legislative act on December 3, 1857, primarily out of Lumpkin County and smaller parts of Gilmer, Pickens, and Forsyth counties. Georgia's 119th county and the county seat of Dawsonville were named for Judge William C. Dawson, a compiler of the laws of Georgia and commander of a brigade in the Creek Indian War of 1836. Dawson served in both houses of the Georgia state legislature, in Congress from 1836 to 1842, and in the U.S. Senate from 1849 until 1855.

Before the creation of Dawson County, the area enjoyed a rich history. Initially settled by the Cherokee Indians at the time of the American Revolution, the river valleys were dotted with farms, orchards, and numerous modern log structures. Native Americans thrived in the area until the discovery of gold in 1829. By 1832, prospectors had overrun much of the area, and Georgia claimed the region as a new territory. In 1838, those Native Americans who had not voluntarily moved west were forcibly removed to Oklahoma along the Trail of Tears. Although absent as a people from the area for more than 150 years, the legacy of the Cherokee remains in many names found throughout Dawson County: Amicalola, which means "tumbling waters," Etowah, Toto Creek - named for the Cherokee Toter family, and a host of other local names. Throughout the 1830s and 1840s, the area that was to become Dawson County was in the midst of the first gold rush in America. Numerous mines and mining operations - some within the city limits of Dawsonville - were located throughout the area. Remnants of these mines and small mining projects can still be found within the county.

By April 28, 1858, all county officers had the books necessary for the county's records, and these were placed in a log structure built for the temporary use of the court and other officials of the county. James Foster built the log courthouse for the sum of \$30.00 and the benches by James Jackson for an additional \$1.25.

Plans for a permanent courthouse were not long postponed, and by May 1858, plans were accepted to have a building 50 by 30 feet, with four gables, and the window sills and steps were to be made of "good plant." The contract was made to Wesley McGuire, John Hockenhull, and Anderson Wilson. In August of 1858, the plans were changed at the recommendation of the grand jury. The new plans for the structure called for an enlarged building of 54 by 38 feet, two gables, the use of good bricks or other materials "such as the [courthouse] in Gainesville," and window sills to be made of granite, soapstone or marble.

Harrison Summerour, John McAfee and R. N. McClure secured a bond for \$9,600.00 to erect the courthouse. As the money came into the county treasurer, the contractors were to be paid, but a difficulty arose, and \$2,500.00 was borrowed from Mr. Summerour to meet the deadline of a contract payment. N. H. Goss made chairs for the new building for \$4.95. The bricks, which were purchased at \$8.00 per thousand, were made by the slaves of John Hockenhull on a







branch on the east side of Old Georgia 19 (now Highway 9), across the highway from the building that housed Standard Telephone Company in Dawsonville. It is thought that other bricks were made at John Hockenhull's for "paving and fixing the courthouse outside walls".

In February of 1860, the grand jury commented on the "abused and defaced condition of the building by persons unknown." The damage was repaired and as time passed, the building was kept in good condition through the efforts of the grand jury and its recommendations.

Some of the more interesting recommendations implemented by the grand jury: William Hollingshed ceiled the building, old shingles were removed (and sold for \$5.00) and the building recovered, the lathing was removed, the northwest room (which had been rented for \$10.00 per month) was fitted for the commissioners' office, the windows were glazed (paned with glass), and from time to time the building was painted. A fence was built and painted around the courthouse (no stock law was in effect). A well, which had been dug earlier on the courthouse grounds, was included inside the fencing. Sawdust was kept on the floor until carpeting was installed, printed material was purchased to make curtains for the windows, and shutters were made and added to the windows. In a contract given to H. C. Thompson, the building was plastered, and later, the plaster was removed, and re-plastering was done through a contract awarded to Mr. Finger. Throughout the years the building received many coats of whitewash to keep it "spic-and-span".

The county's original jail was destroyed by fire soon after it was completed during a failed escape attempt. The county was without a jail until 1881 when a new jail was completed. The old jail is located west of the courthouse and, along with the historic courthouse, is listed in the National Register of Historic Places. Both the jail and the courthouse have undergone extensive renovation to restore them to their original appearance. The Dawson County/Dawsonville Welcome Center was previously housed for several years in the historic jail. Today, the facility serves as the home for Ninth District Opportunity.

For the first hundred years of its existence, Dawson County remained primarily an agricultural economy, largely due to the lack of railroads or major highways in the area. Dawson County was, however, a significant source of illegal corn whiskey (known as 'moonshine') for Atlanta during and after the prohibition era. During prohibition, many bootleggers would modify their cars for better speed and handling to evade police when delivering their illegal cargo. Even after prohibition, the trend continued, as bootleggers were on the run from state revenue agents who sought to tax their illicit operations. Eventually, these cars were raced for entertainment (and profit), leading to the birth of modern stock car racing and NASCAR.

Bill Elliott, one of NASCAR's most successful drivers, was born in Dawsonville. "Awesome Bill from Dawsonville" won 44 races on the NASCAR circuit, including two Dayton 500 victories and the 1988 NASCAR Winston Cup championship. Elliott won NASCAR's Most Popular Driver Award a record 16 times between 1984 and 2002.

In 1957, the Appalachian Trail was re-routed to a new endpoint about 8 miles north of Amicalola Falls State Park, establishing the county as a major destination for hikers. At the same time, the flooding of the Chattahoochee River plain to form nearby Lake Lanier was completed, resulting in Georgia's largest lake at 39,000 acres. The lake forms the southern end of Dawson County.

With the construction of the Georgia 400 highway to Atlanta in the 1980s, the county finally had the major highway that it had lacked for a hundred and twenty years. This transportation route,







combined with Lake Lanier, Amicalola Falls, and the recent development of the North Georgia Premium Outlets, has helped Dawson County transition from a quiet mountain enclave to one of Georgia's fastest-growing communities.

2.4. Past Events

- 2020, Tropical Storm Zeta (Federal Declaration)
- 2020, COVID-19 Pandemic (Federal Declaration)
- 2017, Hurricane Irma (Federal Declaration)
- 2017, Thunderstorm Wind/Hail Event
- 2017, Winter Storm
- 2016, Heavy Rain/Flood Event
- 2015, Winter Storm
- 2015, Ice Storm (Federal Declaration)
- 2014, Winter Storm
- 2014, Winter Storm/Ice Storm (Federal Declaration)
- 2013, Heavy Rain/Flood Event (Etowah River Historic Crest)
- 2013, Flood Event
- 2013, Ice Storm
- 2010, Winter Storms (3)
- 2009, Heavy Rain/Flood Event
- 2009, Tropical Storm Ida/Heavy Rain/Flood Event (Federal Declaration)
- 2008, Thunderstorm Hail Event
- 2008. Winter Storm
- 2005, Winter Storm
- 2004, Hurricane Ivan/Flash Flood Event (Federal Declaration)
- 2002, Tornado (F2)
- 2000, Ice Storm (Federal Declaration)
- 1998, Thunderstorms/Flood Event (Federal Declaration)
- 1997, Thunderstorm Wind Event
- 1995, Hurricane Opal/Thunderstorm Wind Event (Federal Declaration)
- 1993, Blizzard/Winter Storm (Federal Declaration)
- 1977, Drought (Federal Declaration)
- 1974, Tornado (F4) (Federal Declaration)

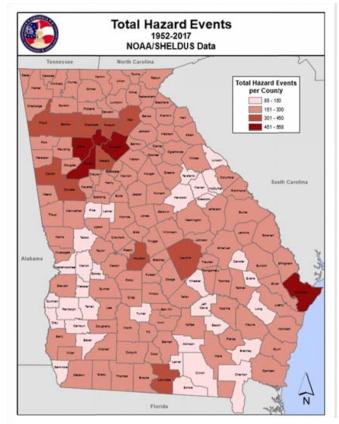


Figure 2.1 Total hazard events per county (Source: 2019 State of Georgia Hazard Mitigation Strategy)







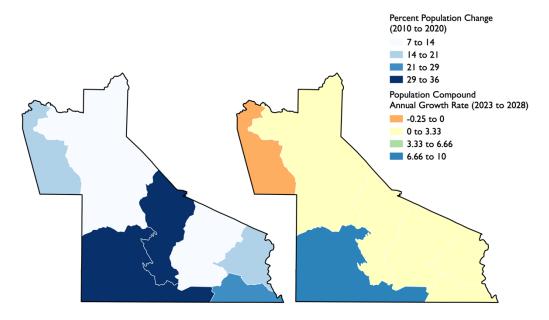
2.5. Demographics

Table 2.1 Demographics for Dawson County and Dawsonville (source: US Census Bureau)

	2020 Census	July 1, 2022 Estimate
Population	26,798	30,138
White	89%	94.7%
African-American	0.8%	1.7%
Hispanic/Latino	6%	6.8%
Asian	0.9%	1.2%
American Indian	0.3%	0.6%
Native Hawaiian and other	0.1%	
Two or More Races	6.4%	1.8%
Median Age	43.8	
Median Household Income	\$72,260	
Person Below Poverty Line	9.5%	
Homeowners	80.7%	

	2020 Census	2022 Estimation
Dawsonville	3,720	4,489

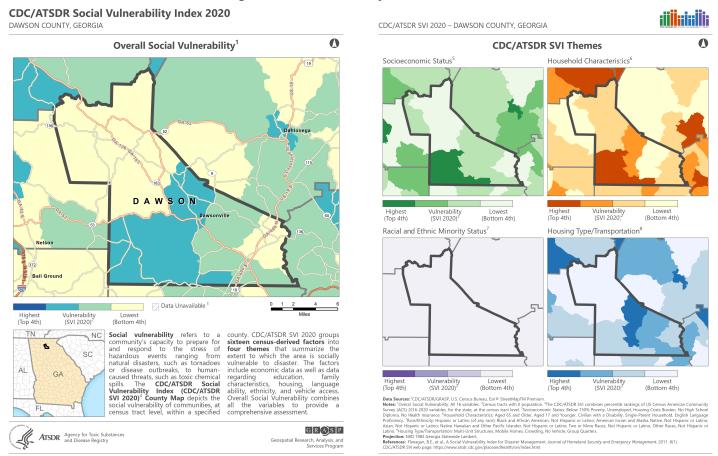
Figure 2.2 Population change (2010 to 2020) and annual growth rate (2023 to 2028)



2.6. Social Vulnerability

The CDC Social Vulnerability Index (SVI) for Dawson County assesses the county's resilience in the face of disasters by evaluating various factors that affect the community's ability to prepare for, respond to, and recover from emergencies. The index takes into account socioeconomic status, household composition, minority status, language barriers, housing, and transportation. By identifying the most vulnerable populations within Dawson County, the SVI helps public health officials and emergency planners allocate resources more effectively to areas that need them the most.

Figure 2.3 Social vulnerability index (Source: CDC)









2.7. Economy

Dawson County's economy is primarily agricultural with some light industry. In August 2023, the unemployment rate in Dawson County was 3.3%, which is the same as the State average and below the National average of 3.8%. According to the Census data, Dawson County has a median household income of \$77,620, above the national average of \$76,330 for 2021. Recent economic challenges in Georgia and nationwide have affected these figures.

Dawson County's Largest Private Employers

North Georgia Premium Outlets = 1322 full-time employees Gold Creek Foods LLC = 292 full-time employees Kroger = 145 full-time employees Wal-Mart = 353 full-time employees BTD Manufacturing = 233 full-time employees Publix = 124 full-time employees Home Depot Inc. = 172 full-time employees Premier Surplus = 125 full-time employees Atlanta Motorsports Park = 49.5 full-time employees Atlanta Gear Works = 45 full-time employees Ingles = 80 full-time employees MESH Engineering = 45 full-time employees Worldwide Manufacturing Inc. = 55 full-time employees Food Lion = 43 full-time employees MCC Labels = 124 full-time employees Chick-Fil-A = 87 full-time employees

*All employment numbers were verified in August of 2023. This information is provided by the Dawson County Chamber of Commerce.

2.8. Government

The form of government specified in the County Charter is known as Commission- Administrator form of government, which provides for an elected body of Commissioners, one from each of four geographic districts, who are elected in staggered four-year terms and a Chairman, who is elected by the county at-large. Although each County Commissioner is elected as a representative from their respective districts, they represent the interests of the entire county and all its citizens. The Board of Commissioners appoints a County Manager, who is responsible for the day-to-day administrative operation of the county government.

The main duties of the Board of Commissioners are to pass local laws, known as ordinances, that regulate a variety of things that promote the health, safety, and welfare of the citizens covered by them; to pass a balanced budget each year that funds its own operations as well as to allocate funds to the four Constitutional Officers, other elected officials, the courts and a variety of programs put in place by the State but funded locally; to ensure that necessary services are funded and provided; to set the millage rate for the County government and many other secondary duties.

The Board of Commissioners sets the County millage rate each year to fund a portion of the







County budget. They also receive the millage rate that the Board of Education sets and an assessment by the State which is submitted to the Georgia Department of Revenue each year.

The Board receives, deliberates, and passes local ordinances yearly and amends many others to reflect the changing times. Both require a public hearing, normally held during the regular Commission meetings. They also pass several resolutions and proclamations throughout the year. Generally, with some exceptions, the Board can pass any local law and ordinance they feel is needed for the County so long as it does not violate the laws of the State or Federal government or the Constitutional rights of any individual. These are researched thoroughly by legal staff before ever being brought to a hearing.

The Board of Commissioners provides many services that citizens expect through the revenues that are raised annually. These include Fire and Ambulance protection, E-911 dispatch services, Zoning and Planning, Inspections, Code Enforcement, Animal Control, Public Library, Parks and Recreation, Public Works, Dawson Transit, and agencies that service all these, such as Building Maintenance and Vehicle Maintenance. The budget also funds state-mandated services such as Law Enforcement and Detention; Superior, Probate, Magistrate, and Juvenile courts; Tax Assessment and Tax Collection services; Elections management; District Attorney (shared with other counties); and some smaller funding for local agencies under the State of Georgia.

The City of Dawsonville has its own government as well. The City of Dawsonville has a Council-Manager form of government. They have a Mayor as well as four Council members who are elected by a City-wide popular vote. These officials serve four year terms. This Council serves as the legislative and policy-making body of the City. They appropriate funds to conduct business within the City and create policies and procedures.

The Dawsonville City Manager runs the operations of Dawsonville. They ensure the day-to-day operations of the City government run efficiently. The City of Dawsonville has four departments: Administration, Planning & Zoning, Public Works, and Utilities. Dawsonville also has various authorities, committees, and commissions that make recommendations to the City Council.

2.9. Transportation

Dawson County's transportation system consists primarily of state highways and county-maintained roads. US Highway 19 (better known as Georgia 400) and State highways 9, 52, 53, 136, and 183 are major transportation routes that carry most passenger and commercial traffic in and out of Dawson County. Congestion in these transportation corridors creates traffic problems, primarily because of population growth. This is particularly true along US Highway 19/ Georgia Highway 400.

In addition to the US and State Routes, Dawson Forest Road, Kelly Bridge Road, and Lumpkin Campground Road are significant county-maintained corridors.

Dawson County currently has one airport, which is privately owned and called Elliott Field. Over the past few years, there have been discussions about the City of Dawsonville potentially purchasing this airport, but no final decisions have been made at the time of this update. It's also worth noting that there has never been a passenger or freight railroad located within Dawson County.







2.10. Climate

Dawson County, like much of Georgia, enjoys a temperate climate. Dawson County experiences four distinct seasons, with warm to hot summers, brisk fall temperatures, relatively brief cool winters, and a warm spring season. This extended growing season is ideal for ornamental and economically significant agricultural plants in Georgia. Due to its proximity to the Atlantic Ocean, Dawson County's climate can differ from other parts of Georgia, resulting in milder winters and warmer, wetter summers.

2.11. Utilities

Dawson County's utility needs are met by various public and private entities. Amicalola EMC, Sawnee EMC, and Georgia Power provide electrical power to Dawson County. Propane and natural gas are the primary sources of heating and cooking fuel for Dawson County's residents. This fuel is delivered to residents and businesses by tank truck on an ongoing basis, especially during peak winter months. Atlanta Gas Light provides limited natural gas service in Dawson County. There are many propane distributors with large quantities of propane stored on-site.

2.12. NFIP Compliance

Table 2.2 NFIP compliance status for jurisdictions (Source: Federal Emergency Management Agency)

Jurisdiction	Participating?	Participation Date
Dawson County	Yes	12/15/1990
Dawsonville	Yes	5/21/1982







Chapter 3. Hazard Profiles

3.1. Summary of Updates for Chapter Three

The following table provides a description of each section of this chapter, and a summary of the changes that have been made since the Dawson County Hazard Mitigation Plan 2018.

Chapter 3 Section	Updates
Risk Assessment	Updated the Risk Assessment conducted for the update (restructured and added components to THIRA)
Natural Hazard Thunderstorms	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Winter Storms	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Flooding	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Tornado	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Drought	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Wildfire	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Earthquake	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Tropical Cyclone	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Natural Hazard Extreme Temperatures	New section – not in 2018 Plan
Technological Hazard Hazardous Materials	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Technological Hazard Dam Failure	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Technological Hazard Transportation	Updated and consolidated hazard profile







	 Added probability, impacts, impacts from future conditions sections
Technological Hazard Terrorism	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections. Added probability, impacts, impacts from future conditions sections
Technological Hazard Communications Failure	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Technological Hazard Emergent Infectious Diseases	 Updated and consolidated hazard profile. Added probability, impacts, impacts from future conditions sections
Technological Hazard Cyberattack	New section – not in 2018 Plan
Technological Hazard Active Shooter/Threat	New section – not in 2018 Plan
Hazard Assessment	New section – not in 2018 Plan

3.2. Risk Assessment

The Dawson County Hazard Mitigation Planning Committee (HMPC) conducted a comprehensive Threat and Hazard Identification and Risk Assessment (THIRA) for Dawson County and the City of Dawsonville. This assessment developed the hazard basis for this plan. The assessment includes the following components for each hazard:

- Hazard Identification: The HMPC identified nine natural hazards and eight technological
 hazards for this Hazard Mitigation Plan. This is an increase of one natural hazard (extreme
 temperatures), two technological hazard (cyberattack and active shooter/threat) compared to
 the previous plan. The list of hazards is based upon frequency, extent, previous occurrences,
 probability, and impacts. The HMPC did not identify any hazards that are unique to or vary
 from those affecting the overall planning area.
- **Hazard Description:** Each hazard was described in detail. Many hazard descriptions came from the Georgia Hazard Mitigation Strategy.
- Hazard Profile (Location, Extent, Previous Occurrences): Each hazard was described based on:
 - o Location: The geographic area within the planning area that is affected by the hazard
 - o Extent: The expected range of intensity for each hazard
 - o Previous Occurrences: The history of hazard events
- **Probability:** The probability of each hazard was evaluated using historical data as well as future condition data (e.g. climate change, population change, etc.). In some cases, probability levels were determined using the following scale:
 - Unlikely: Occurring every 50 years or less
 - Somewhat Likely: Occurring every 20 to 50 years
 - Likely: Occurring every 5 to 20 years
 - Highly Likely: Occurring every 1 to 5 years
 - Extremely Likely: Occurring every 1 year or more
- **Impacts**: The impacts (to infrastructure, agriculture, and people) were evaluated for each hazard. Example impacts include loss of life, building damage, crop damage, etc.







- **Impacts from Future Conditions:** The changes in impacts from future conditions, including climate change, population change, and land use change, were described for each hazard.
- **Multi-Jurisdictional Considerations:** Each jurisdiction was considered when determining the potential hazard impact.

Along with this assessment, GEMA conducted a HAZUS assessment, which is incorporated in this chapter and found in Appendix F.

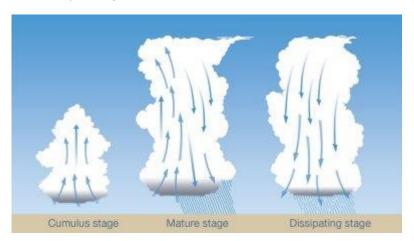
3.2.1. Natural Hazard: Thunderstorms

3.2.1.1 Hazard Description

Thunderstorms

Thunderstorms are formed when moist air near the earth's surface is forced upward through some catalyst (convection or frontal system). As the moist air rises, the air condenses to form clouds. Because condensation is a warming process, the cloud continues to expand upward. When the initial updraft is halted by the upper troposphere, both the anvil shape and a downdraft form. This system of up-drafting and down-drafting air columns is termed a "cell."

Figure 3-1 The sequential development of a thunderstorm cell (Source: Australian Government Bureau of Meteorology)



As the process of updrafts and downdrafts feeds the cell, the interior particulates of the cloud collide and combine to form rain and hail, which falls when the formations are heavy enough to push through the updraft. The collision of water and ice particles within the cloud creates a large electrical field that must discharge to reduce charge separation. This discharge is the lightning that occurs from cloud to ground or cloud to cloud in the thunderstorm cell. In the final stage of development, the updraft weakens as the downdraft-driven precipitation continues until the cell dies.

Each thunderstorm cell can extend several miles across its base and to reach 40,000 feet in altitude. Thunderstorm cells may compound and move abreast to form a squall line of cells, extending farther than any individual cell's potential.

In terms of temporal characteristics, thunderstorms exhibit no true seasonality in that occurrences happen throughout the year. Convectively, driven systems dominate the summer while frontal driven systems dominate during the other seasons. The rate of onset is rapid in that a single cell endures only 20 minutes. However, various cells in different stages of







development may form a thunderstorm that lasts up to a few hours as it moves across the surface.

In terms of magnitude, the National Weather Service defines thunderstorms in terms of severity as a severe thunderstorm that produces winds greater than 57 mph and/or hail of at least 1 inch in diameter and/or a tornado. The National Weather Service chose these measures of severity as parameters more capable of producing considerable damage. Therefore, these are measures of magnitude that may project intensity.

Lightning

Lightning occurs when the difference between the positive and negative charges of the upper layers of the cloud and the earth's surface becomes great enough to overcome the resistance of the insulating air. The current flows along the forced conductive path to the surface (in cloud to ground lightning) and reaches up to 100 million volts of electrical potential. In Georgia, lightning strikes peak in July, with June and August being second highest in occurrence.

Hail

Hail is a form of precipitation that forms during the updraft and downdraft-driven turbulence within the cloud. The hailstones are formed by layers of accumulated ice (with more layers creating larger hailstones) that can range from the size of a pea to the size of a grapefruit. Hailstones span a variety of shapes but usually take a spherical form. Hailstorms mostly endanger cars but have been known to damage aircraft and structures.

Figure 3-2 Reference of hailstone size and wind speed

Hailstone size	Measurement		Updraft Speed	
	in.	cm.	mph	km/h
bb	< 1/4	< 0.64	< 24	< 39
pea	1/4	0.64	24	39
marble	1/2	1.3	35	56
dime	7/10	1.8	38	61
penny	3/4	1.9	40	64
nickel	7/8	2.2	46	74
quarter	1	2.5	49	79
half dollar	1 1/4	3.2	54	87
walnut	1 1/2	3.8	60	97
golf ball	1 3/4	4.4	64	103
hen egg	2	5.1	69	111
tennis ball	2 1/2	6.4	77	124
baseball	2 3/4	7.0	81	130
tea cup	3	7.6	84	135
grapefruit	4	10.1	98	158
softball	4 1/2	11.4	103	166







3.2.1.2 Hazard Profile (Location, Extent, Previous Occurrences)

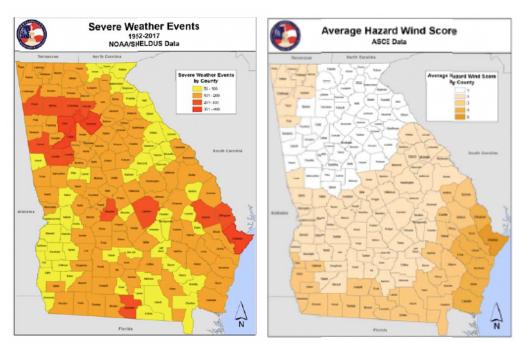
The Dawson County Hazard Mitigation Plan Update Committee utilized data from the National Climatic Data Center, the National Weather Service, numerous weather- related news articles, and the Dawson County LEOP in researching severe thunderstorms and their potential impacts on the County.

Severe thunderstorms, including high winds, hail, and lightning, are a serious threat to the residents and infrastructure of Dawson County. Severe thunderstorms are the most frequently occurring natural hazard in Dawson County. Severe thunderstorms are non-spatial and can occur anywhere in the County. The extent of the storms can include high winds, lightning, and hail. Hail up to 2.75 inches was recorded in Dawson County on several occasions, most recently in 2008.

While there have been dozens of documented thunderstorm events affecting Dawson County over the last 50 years, it is likely that the official number is a low estimate due to poor record keeping in decades past. For example, only 13 thunderstorm events were recorded between 1967 and 1990, likely a vast underestimation of actual events.

Below are two maps that identify the wind risk and the hazard wind score for the State of Georgia, including Dawson County. A legend is included to show the scale used by the Hazard Wind Score map.

Figure 3-3 Wind risk and hazard wind score for counties (Source: 2019 State of Georgia Hazard Mitigation Strategy)



Hazard Score	Wind Speeds
1	<90 mph gust
2	91 – 100 mph gust
3	101 – 110 mph gust
4	111 – 120 mph gust
5	>120 mph gust







During the last 50 years, 104 thunderstorm events were recorded in Dawson County, with 91 of those occurring in the last 25 years. This number includes 39 hail events and only 8 lightning reports. According to these records, Dawson County has a 0.6% chance daily of a thunderstorm event based upon data from the last 25 years. Due to improved record keeping protocols, the Dawson County Hazard Mitigation Plan Update Committee believes the data from the last ten years provides a more accurate representation of the thunderstorm threat to the county. The Dawson County Hazard Mitigation Plan Update Committee has also determined that the lightning threat is severely under-reported, as shown in the NCDC data numbers. For additional historical data, please see Appendix D.

3.2.1.3 Probability

The annualized frequencies of strong wind, hail, and lightning events were calculated as an initial step in determining thunderstorm probability. The annualized frequency of lightning strikes occurring in the County is based on a prototype dataset from NOAA's NCEI with all recorded cloud-to-ground lightning strikes from 1991 to 2012 made available through FEMA.

NOAA's Storm Prediction Center provides access to reported hail events since 1986 that can be used to calculate the annualized frequency. The dataset includes events that meet a hail size threshold of 0.75" (before 2010) and a threshold of 1.0" (after 2010).

NOAA's Storm Prediction Center provides access to reported damaging wind events since 1986 that can be used to calculate annualized frequency. The dataset includes events with wind speeds greater than or equal to 50.4 knots (58 mph).

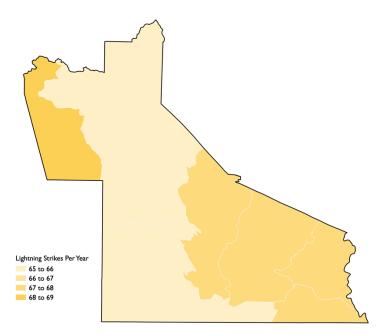


Figure 3-4: Annualized frequency analysis of lightning events in Dawson County (Source: Federal Emergency Management Agency)







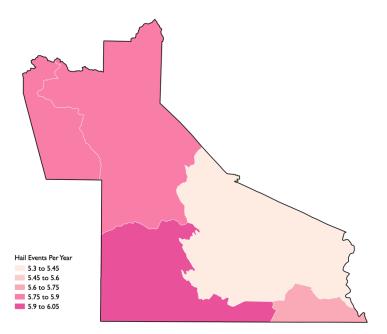


Figure 3-5: Annualized frequency analysis of hail events in Dawson County (Source: National Oceanic and Atmospheric Administration)

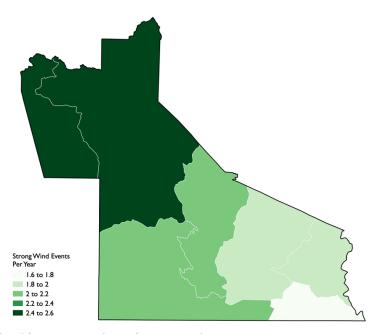


Figure 3-6 Annualized frequency analysis of strong wind events in Dawson County (Source: National Oceanic and Atmospheric Administration)

Based on the above annualized frequency analysis, the probability of having a thunderstorm in the County is extremely likely (occurring every 1 year or more).

The impact of climate change on the frequency and severity of thunderstorms is not currently well known. According to the 2024 Georgia Hazard Mitigation Strategy, the anticipated frequency and severity will remain close to historical records.







3.2.1.4 Impacts

In evaluating assets that are susceptible to severe thunderstorms, the Dawson County HMPC determined that all public and private property is at threat by severe thunderstorms, including all critical facilities. This is due to the lack of spatial prejudice of severe thunderstorm events.

Estimates of damage for the past events of the last 50 years are over \$3.5 million, or \$70,000 annually. These numbers are thought to be a gross underestimation of actual past damages though as most of the available information relating to severe thunderstorm events in Dawson County fails to describe damage estimates in any detail. With each thunderstorm event, there are likely unreported costs related to infrastructure costs, public safety response costs, utility repair costs, and personal home and business repair costs. Thunderstorms have occurred during all parts of the day and night and in every month in Dawson County.

Thunderstorms in Dawson County often bring strong winds, heavy rainfall, and lightning, which can significantly impact vulnerable populations. The elderly and disabled may have difficulty responding quickly to warnings or evacuating if needed. Low-income households may live in less stable housing, such as mobile homes, which are more susceptible to damage from high winds and lightning strikes. Limited access to reliable communication channels can affect residents with limited English proficiency or those in rural areas, delaying their response to rapidly changing conditions. Additionally, power outages caused by thunderstorms can disrupt vital services for people relying on medical devices or medications that require refrigeration.

3.2.1.5 Impacts from Future Conditions

As described above, impacts from climate change are not well defined yet, but Dawson County could see impacts from land use changes and population growth. More specifically, Dawson County has seen continued and significant population growth (from 2010 to 2020, Dawson County's population increased by 4,731 (21.19%), according to Census Bureau's Population Estimates Program) – this population growth is also related to land use changes as the County becomes more developed to account for the increased population. Even if the frequency and severity of thunderstorms remain constant, damage to life and property will likely increase.

3.2.1.6 Multi-Jurisdictional Considerations

Thunderstorm events have occurred across all areas of Dawson County. Crop damage from thunderstorm events would likely have the greatest impact in the rural areas of Dawson County. However, property damage numbers would be highest in more heavily populated areas, such as the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor, due to greater population density. Thunderstorms have the potential to impact all areas of Dawson County.

3.2.1.7 Hazard Summary

Thunderstorm events pose one of the greatest threats of property damage, injuries, and loss of life in Dawson County. Thunderstorm events are the most frequently occurring weather event that threatens Dawson County. As a result, the Dawson County HMPC recommends that the mitigation measures identified in this plan for thunderstorms should be aggressively pursued due to the frequency of this hazard and the ability for this hazard to affect any part of Dawson County.







3.2.2. Natural Hazard: Winter Storms

3.2.2.1 Hazard Description

Severe winter storms bring the threat of ice and snow. There are many types of frozen precipitation that create a severe winter weather event. Freezing rain consists of super cooled falling liquid precipitation freezing on contact with the surface when temperatures are below freezing, resulting in an ice glazing on exposed surfaces including buildings, roads, and power lines. Sleet is easily discernable from freezing rain in that the precipitation freezes before hitting the surface. Often this sleet bounces when hitting a surface and does not adhere to the surface, but sleet can compound into sufficient depths to pose threats to motorists and pedestrians.

A heavy accumulation of ice, which is often accompanied by high winds, can devastate infrastructure and vegetation. Destructiveness in the southern states is often amplified due to the lack of preparedness and response measures. Also, the infrastructure was not designed to withstand certain severe weather conditions such as weight build-up from snow and ice. Often, sidewalks and streets become extremely dangerous to pedestrians and motorists. Primary industries, such as farming and fishing, suffer losses through winter seasons that produce extreme temperatures and precipitation.

Severe winter weather exhibits seasonal qualities in that most occur within the months of January to March, with the highest probability of occurrence in February. The rate of onset and duration varies from storm to storm, depending on the weather system driving the storm. Severe winter weather rarely frequents the State of Georgia. However, the impacts of the storms substantiate severe winter weather's inclusion in the risk assessment.

3.2.2.2 Hazard Profile (Location, Extent, Previous Occurrences)

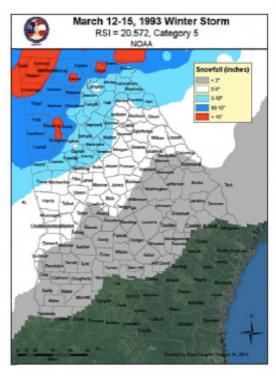
All portions of Dawson County could potentially be impacted by a winter storm. Individual events of winter weather can be drastically different depending on many factors, including the duration of the event, the type of precipitation involved, and the depth of the precipitation. Winter storm events can be a light dusting of snow, ¼ inch of ice, or over a foot of snow. Other factors, such as wind, can influence the strength of these events, as happened with wind-blown snow during the March 1993 Winter Storm event. During this event, over a foot of snow was reported in multiple areas across Dawson County and most areas received at least 6 inches of snow.

The National Weather Service weather forecast offices issue weather warnings when an office has at least an 80% confidence level of an event occurrence (generally within 24 to 36 hours). Warnings related to severe winter weather include blizzard and winter storm warnings. Blizzard warnings are issued when sustained winds or frequent gusts greater than or equal to 35 mph and considerable falling and/or blowing snow frequently reducing visibility for greater than or equal to 3 hours are forecasted to occur. Winter storm warnings are issued when (1) more than one predominant hazard (ie. heavy snow and blowing snow (below blizzard conditions), snow and ice, snow and sleet, sleet and ice, or snow, sleet and ice) meets or exceeds warning criteria for at least one of the precipitation elements (2) at least 6 inches of snow or sleet is forecasted in a 12 hour period or (3) at least 9 inches of snow or sleet is forecasted in a 24 hour period. Previous occurrences of winter weather warnings can be seen in Appendix D.









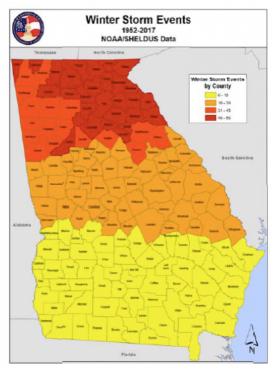


Figure 3-7 Historic snowfalls for the March 1993 Winter Storm event and number of total winter storm events (Source: 2019 State of Georgia Hazard Mitigation Strategy)

3.2.2.3 Probability

The annualized frequencies of ice storms and winter weather events were calculated using data from the United States Army Corps of Engineers Cold Regions Research and Engineering Laboratory (CRREL) and archived NWS warnings compiled by Iowa State University's Iowa Environmental Mesonet.

Based on the annualized frequency analysis, the probability of having a winter storm event in the County is extremely likely (occurring every 1 year or more).

Similar to thunderstorms, the impacts of climate change on winter storms is not entirely understood yet. Referencing the 2019 Georgia Hazard Mitigation Strategy though, winter storms have increased in frequency and intensity since the 1950s, but their tracks have shifted northward over the United States. While the trend in increased frequency will likely continue over the United States, Dawson County can expect similar levels as historical records due to the offset by the northward shift of the tracks.







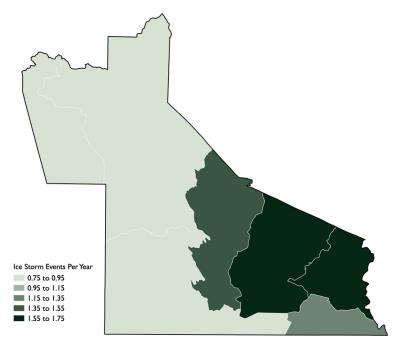


Figure 3-8: Annualized frequency analysis of ice storm events in Dawson County (Source: Federal Emergency Management Agency)



Figure 3-9: Annualized frequency analysis of winter weather events in Dawson County (Source: Iowa State University)

3.2.2.4 Impacts

While winter storms are not as frequent of an occurrence in Dawson County as they are in areas in the Northern US, they still have the potential to wreak havoc on the community when they do occur. Winter storms in Dawson County typically cause drastic damage to infrastructure, such as roads, power lines, and bridges. They also can cause damage to private property,







businesses, and trees throughout the county. Due to the county's elevation changes, many highways have steep grades that can become dangerous during icy conditions. The large number of trees in Dawson County can also become a hazard when the tree limbs become weighed down with snow and ice and begin to break and fall to the ground, potentially damaging private property, public property, or injuring people and animals.

Since winter storms are indiscriminate about location, the Dawson County HMPC determined that all public and private property, including all critical infrastructure, are susceptible to impacts from winter storms.

Total estimated losses for winter storm events of the last 50 years indicate a total of over \$1.2 million in losses. Extrapolated over 50 years, this averages out to \$25,940 per year. However, nearly all the documented winter storms with loss information have occurred over the last 20 years. As such, the average loss per year for the last 20 years is \$64,850 per year. It is estimated that these numbers are a gross underestimation of the impact of past winter storms and caution is expressed when using these figures to make loss determinations for winter storms in Dawson County.

Winter storms, with their potential for snow, ice, and freezing temperatures, present significant challenges for Dawson County's vulnerable populations. Elderly residents and individuals with disabilities may struggle to stay warm and mobile during such events, especially if they rely on caregivers who may also be affected. Low-income households may lack adequate heating or the financial resources to prepare for prolonged cold periods. Homeless individuals and families living in substandard housing are at greater risk of exposure to the elements. Power outages, common during winter storms, further endanger these groups by limiting access to heat, communication, and medical care.

3.2.2.5 Impacts from Future Conditions

Impacts from future conditions for winter weather mirrors the impacts from future conditions for thunderstorms for Dawson County. Climate change is not expected to have a significant impact, but Dawson County could see impacts from land use changes and population growth. Even if the frequency and severity of winter storms remain constant, damage to life and property will likely increase.

3.2.2.6 Multi-Jurisdictional Considerations

All portions of Dawson County could potentially be impacted by a winter storm, including freezing rain, sleet, and snow. However, property damage numbers would be highest in more heavily populated areas, such as the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor, due to greater population density. Therefore, all mitigation actions identified regarding winter storms should be pursued on a countywide basis and include the City of Dawsonville.

3.2.2.7 Hazard Summary

Winter storms, which can include freezing rain, sleet, or snow, typically afford communities some advance warning, which is different from many other severe weather phenomena. The National Weather Service issues winter storm watches, advisories, and warnings as much as a day before the storm's impacts begin. Unfortunately, communities in the Southern United States







are not equipped to handle winter storms due to their relative infrequent nature. Oftentimes, communities can face severe impact from these storms. The Dawson County HMPC recognizes the potential threats winter storms could have on the community and have identified specific mitigation actions as a result.

3.2.3. Natural Hazard: Flooding

3.2.3.1 Hazard Description

Flooding is a temporary overflow of water on normally dry lands adjacent to the source of water, such as a river, stream, or lake. The causes of flooding include mass sources of precipitation, such as tropical cyclones, frontal systems, and isolated thunderstorms combined with other environmental variables, such as changes to the physical environment, topography, ground saturation, soil types, basin size, drainage patterns, and vegetative cover. Adverse impacts may include structural damages, temporary backwater effects in sewers and drainage systems, death of livestock, agricultural crop loss, loss of egress and access to critical facilities due to roads being washed-out or over-topped and unsanitary conditions by deposition of materials during recession of the floodwaters.

Floods are loosely classified as either coastal or riverine. Coastal flooding occurs when normally dry, low-lying land is flooded by sea water. Coastal flooding is usually associated with tropical cyclones in Georgia. Riverine flooding occurs from inland water bodies such as streams and rivers. Riverine flooding is often classified based on rate of onset. The first is slow to build, peak, and recede, often allowing sufficient time for evacuations. The other type of riverine flood is referred to as a "flash" flood, which rapidly peaks and recedes, thus giving insufficient time for evacuations. Flash floods are typically considered the most dangerous of these types.

On a broad scale, flooding can occur around any body of water or low-lying surface given enough precipitation or snowmelt. The spatial extent of the flooding event depends on the amount of water overflow but can usually be mapped because of existing floodplains (areas already prone to flooding).

Flooding in Georgia is highly dependent on precipitation amounts and is highly variable. Certain seasons are more prone to flooding to a greater likelihood of excessive precipitation. Typically, the wet seasons are during the winter, early spring, and midsummer. Late spring and fall are usually drier seasons.

3.2.3.2 Hazard Profile (Location, Extent, Previous Occurrences)

Flood events within Dawson County are typically associated with areas of special flood hazard as identified on Flood Rate Insurance Maps (FIRMs) published by FEMA. The flood maps delineate areas of high, moderate, and low flood risk by indicating areas of inundation under different flooding return periods (e.g. 100-year, 500-year floods). Dawson County is within the 100-year and 500-year floodplains depending on the location.

The HMPC researched flooding information for the last fifty years. The main sources of information used came from the NCDC, the Dawson County Emergency Operations Plan, and news media sources. It was determined that flooding has caused significant damage on a relatively small number of occasions over the last 20 years. One significant flooding event that affected Dawson County occurred in September of 2004. The flash flood event led to two bridges and multiple culverts being washed out, four mobile homes flooded, and one breached







dam. This event caused nearly \$500,000 in reported damages. While data was collected for the entire 50-year timeframe, little information was available regarding flood events over that period, possibly due to poor record keeping. The Etowah River reaches major flood stage at 21 feet near Dawsonville and 31 feet near Landrum. At these levels, GA Highway 9 floods in low-lying areas and water levels reach the bottom of the GA Highway 136 bridge. Homes along Riverbend Road and Etowah River Road become inundated with 4-10 feet of water (flooding of homes begins at "moderate" flood level near Landrum in unincorporated Dawson County). The highest crest of the Etowah River near Dawsonville (unincorporated Dawson County) is 15.9 feet in 2013, which is just below "moderate" flood stage. For additional historical data, please see Appendix D.

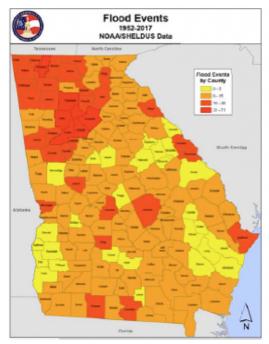


Figure 3-10 Past flood events in Georgia counties (Source: 2019 State of Georgia Hazard Mitigation Strategy)

The extent of flooding within Dawson County can also be presented using depth of flood information. NOAA provides historical crest and flood stage category levels for 6 gauges within the County. Th below figures provide this information for the following gauges, all within Dawson County:

- Amicalola Creek
- Etowah River at GA 136
- Russell Creek
- Etowah River 0.2 Miles Downstream GA 53
- Etowah River at GA 9
- Etowah Rivet at Kelly Bridge Road







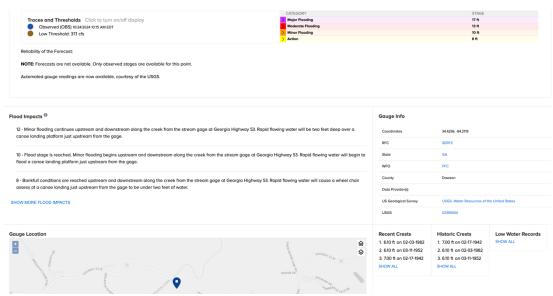


Figure 3-11 Historic crest and flood stage category levels for the Amicalola Creek gauge (NOAA)

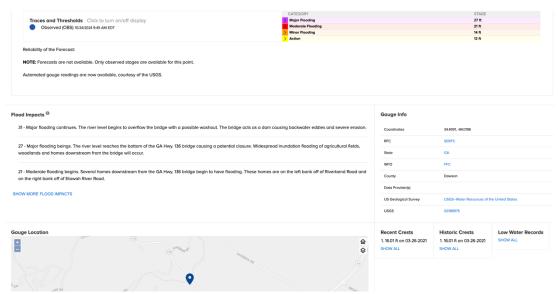


Figure 3-12 Historic crest and flood stage category levels for the Etowah River at GA 136 gauge (NOAA)



Figure 3-13 Flood stage category levels (historic crest data not available) for the Russell Creek gauge (NOAA)







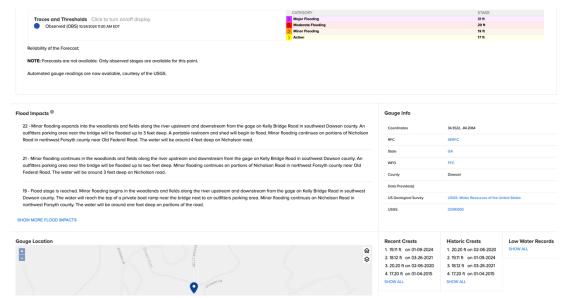


Figure 3-14 Historic crest and flood stage category levels for the Etowah River 0.2 Miles Downstream GA 53 gauge (NOAA)

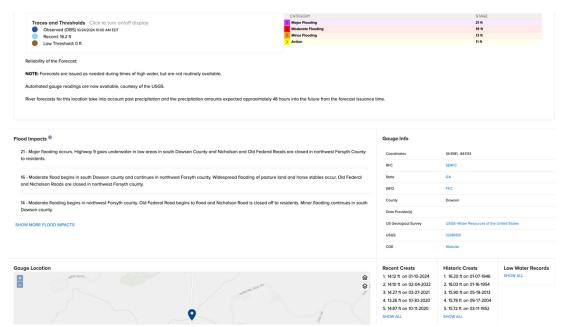


Figure 3-15 Historic crest and flood stage category levels for the Etowah River at GA 9 gauge (NOAA)







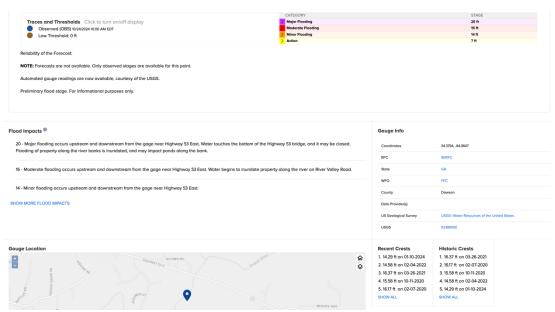


Figure 3-16 Historic crest and flood stage category levels for the Etowah River at Kelly Bridge Road gauge (NOAA)

3.2.3.3 Probability

To evaluate the probability of flooding in Dawson County, the HMPC looked at the FEMA flood maps and events in the NCEI Storm Events Database since 1996. The County is within the 100-year and 500-year floodplains depending on the location within the County and had 15 flood event reports over 28 years within the database. According to FEMA, any place with a 1% chance or higher chance of experiencing a flood each year has at least a 25% chance of flooding during a 30-year mortgage. The probability of flooding in Dawson County is highly likely (occurring every 1 to 5 years).

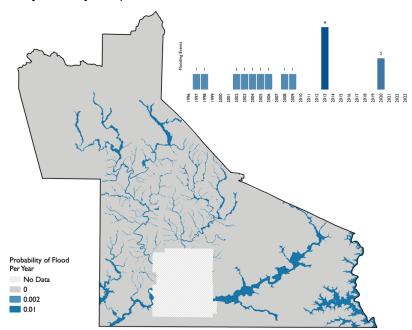


Figure 3-17: FEMA flood zones in Dawson County and counts of historical flooding events (Source: Federal Emergency Management Agency, National Oceanic and Atmospheric Administration)







Climate change is projected to impact precipitation, and thus the probability of flooding. As shown in Figure 3-21, the County is expected to see an increase of 4-5 inches of precipitation by the end of the century as well as an increase of 3-4 days that have heavy rains.

3.2.3.4 Impacts

Relatively little information is available regarding flooding damage estimates. However, with each flooding event, it is likely that significant costs arose related to road repair, infrastructure repair, and public safety response operations. Most of the flood damage in Dawson County's history appears to be related to roads and culverts washing out because of flood waters.

To evaluate the assets that would potentially be impacted by flooding, the Dawson County HMPC attempted to identify known structures within, or close to, the 100-year floodplain.

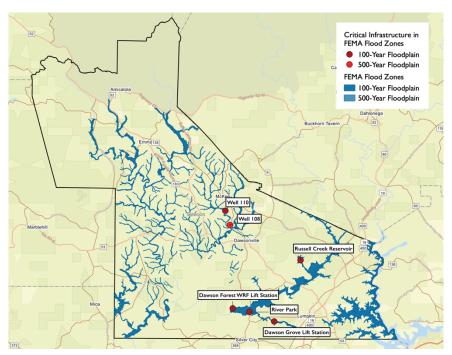


Figure 3-18 Critical infrastructure within flood zones (Source: Federal Emergency Management Agency)

Based upon the 2024 Dawson County HAZUS report, a flood equivalent to the 1% riverine flood levels could result in losses in excess of \$5 million. However, it is possible that some areas may not experience total losses while others may be inundated with flood waters who are not designated in the 1% riverine flood areas. The analysis identified no essential facility that were subject to damage in the Dawson County riverine 1% probability floodplain.







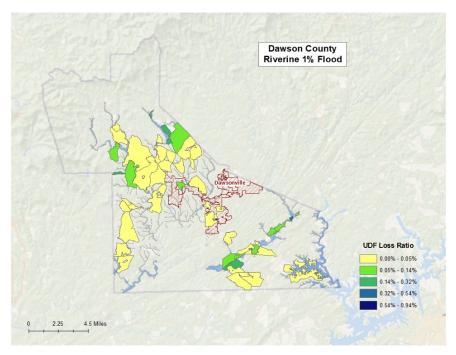


Figure 3-19 Dawson County potential loss ratios of total building exposure to losses sustained to buildings from the 1% riverine flood by 2010 census block (Source: 2024 Dawson County HAZUS Report)

The analysis also estimated the number of households that are expected to be displaced from their homes due to riverine flooding and the associated potential evacuation. The model estimated 281 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 844 individuals, of which 368 may require short term publicly provided shelter.

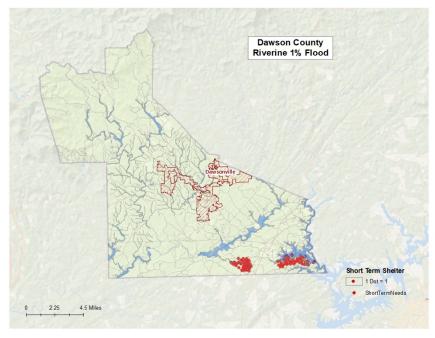


Figure 3-20 Riverine 1% estimated flood shelter requirements (Source: 2024 Dawson County HAZUS Report)







Flooding, which can occur from heavy rains or overflowing rivers, poses a serious threat to vulnerable populations in Dawson County. Elderly and disabled individuals may have difficulty evacuating from flood-prone areas, and those in rural areas could be cut off from emergency services and shelters. Low-income residents are more likely to live in flood-prone areas and may lack the resources to recover from flood damage or afford flood insurance. Additionally, children, especially in low-income families, are at risk due to their dependence on adults for safety. Communication barriers for individuals with limited English proficiency can hinder timely access to emergency information and evacuation orders.

3.2.3.5 NFIP Participation

Dawson County and the City of Dawsonville participate in the National Flood Insurance Program (NFIP) and follows the program's guidelines to ensure future development is carried out in the best interests of the public. The City of Dawsonville (CID No. 130064) first entered the NFIP on May 21, 1982, while Dawson County (CID No. 130304) first entered the NFIP on December 15, 1990. The Planning and Development Department of Dawson County and the Planning and Zoning Department of the City of Dawsonville are responsible for ensuring compliance with NFIP regulation. Both jurisdictions adopted the latest effective Flood Insurance Rate Map (FIRM) dated April 4, 2018. According to the NFIP guidelines, the County has executed a Flood Damage Prevention Ordinance. This ordinance attempts to minimize the loss of human life and health as well as minimize public and private property losses due to flooding. The ordinance requires any potential flood damage be evaluated at the time of initial construction and that certain uses be restricted or prohibited based on this evaluation. The ordinance also requires that potential homebuyers be notified that a property is located in a flood area. In addition, all construction must adhere to the Georgia State Minimum Standard Codes and the International Building Codes. There are no repetitive or severely repetitive loss properties identified in Dawson County. This includes the City of Dawsonville.

The County Code Enforcement Officer serves as the designee that enforces the National Flood Insurance Program requirements for unincorporated Dawson County and the City of Dawsonville's Building Inspector oversees the NFIP requirements and flood prevention within it's jurisdiction. Both entities review any permit applications or zoning complaints for their respective jurisdictions. Permits are not approved until signed off as compliant with all building codes and NFIP requirements. As the agencies that implement the addressed commitments and requirements of the NFIP, they also administer and oversee the process of substantial improvement (SI) and substantial damage (SD) regulations post disaster. Assessment of damages after a disaster helps in community resiliency and future mitigation strategies. Implementing existing guidelines and local regulations such as building codes, zoning ordinances, and disaster management plans continues to help these communities recover from natural disasters'. These SI/SD regulations are administered by:

- Performing damage assessments after each hazard event; informing property owners of how to apply for permits for repairs and determining if the damage that has occurred qualifies as substantial damage.
- Reviewing permit applications for buildings located within the special flood hazard area to determine if the work being requested constitutes SI or SD repairs, and ensuring all requirements are addressed.
- Reviewing cost estimates of the proposed work to ensure they are reasonable using current market value of the structure and its characteristics, while excluding land value.
 Using the market value to determine if the proposed improvements meet SI







requirements or using market value prior to the damage to determine if repairs meet SD requirements.

- Conducting field inspections during construction to ensure it complies with issued permits and work with owners to correct any violations found.
- Retaining all FIRMs and maintaining all SFHA permits. Both accessible by the general public.
- Coordinating with property owners and insurance adjusters on all NFIP flood insurance claims and Increased Cost of Compliance (ICC) coverage.

Assessment of substantial damage after a disaster helps in resilience and mitigation strategies. Implementing existing guidelines and local regulations such as building codes, zoning ordinances, and disaster management plans has helped recover from natural disasters' aftermath.

3.2.3.6 Impacts from Future Condition

Dawson County is projected to see an increase in precipitation leading to an increase in the number of properties that are prone to flooding in 30 years. There is also a projected increase in the percent of properties that are at risk of flooding between now and 30 years from now.

3.2.3.1 Multi-Jurisdictional Considerations

During a large-scale flood event, many portions of Dawson County would potentially be impacted by flooding. However, the areas most prone to flooding have historically been those areas located within the 100-year floodplain. This is particularly true for areas along the Etowah River, which is in unincorporated areas of Southern Dawson County. The City of Dawsonville would be less likely to see direct impacts from flooding. However, a flood impacting unincorporated areas of the county would still have significant impacts on the City of Dawsonville. All of Dawson County and the City of Dawsonville could potentially be impacted.

3.2.3.2 Hazard Summary

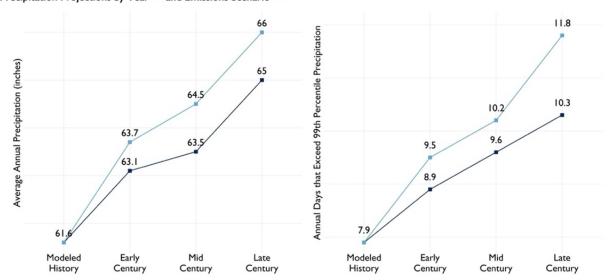
Flooding has the potential to inflict significant damage within Dawson County, particularly along Lake Lanier and its tributaries. Mitigation of flood damage requires the community to be aware of flood-prone areas, including roads, bridges, and critical facilities. The Dawson County HMPC identified flooding as a hazard requiring mitigation measures and identified specific goals, objectives, and action items they deemed necessary to lessen the impact of flooding for their communities. These maps were updated since the previous plan. There are no repetitive loss properties identified in Dawson County.



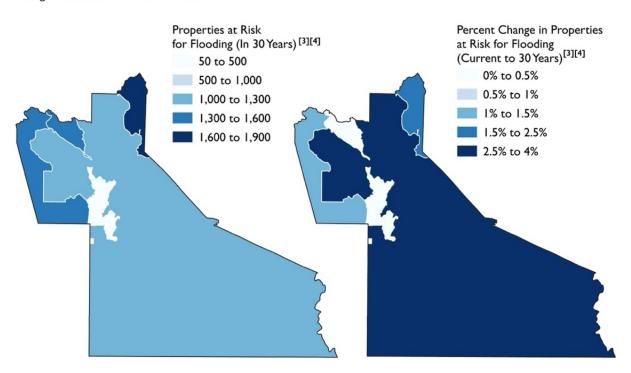








■ Higher Emissions ■ Lower Emissions



- [1] Modeled History (1976 to 2005; Early Century (2015 to 2044); Mid Century (2035 to 2064); Late Century (2070 to 2099)
- [2] Lower Emissions Scenario (RCP 4.5); Higher Emissions Scenario (RCP 8.5)
- [3] Based on a 1-in-100 year flood event; this event has a 26% chance occuring at least once over 30 years [4] Calculated on the zip code-level; values for zip codes that span multiple counties represent the entire zip code (not restricted to the portion within Dawson County)

Data Sources: Climate Mapping for Resilience and Adaptation, First Street Foundation





Figure 3-21 Projected precipitation levels in Dawson County under various emissions scenarios and impacts to property flooding (Source: Climate Mapping for Resilience and Adaptation, First Street Foundation)







3.2.4. Natural Hazard: Tornado 3.2.4.1 Hazard Description

A tornado is a violently rotating column of air (seen only when containing condensation, dust, or debris) that is in contact with the surface of the ground. Exceptionally large tornadoes may not exhibit the classic "funnel" shape, but may appear as a large, turbulent cloud near the ground or a large rain shaft. Destructive because of strong winds and windborne debris, tornadoes can topple buildings, roll mobile homes, uproot vegetation, and launch objects hundreds of yards.

Most significant tornadoes (excluding some weak tornadoes and waterspouts) stem from the right rear quadrant of large thunderstorm systems where the circulation develops between 15,000 and 30,000 feet. As circulation develops, a funnel cloud, a rotating air column aloft, or tornado descends to the surface. These tornadoes are typically stronger and longer-lived. The weaker, shorter-lived tornadoes can develop along the leading edge of a singular thunderstorm. Although tornadoes can occur in most locations, most of the tornado activity in the United States in the Midwest and Southeast. Tornadoes can occur anywhere within the State of Georgia.

In terms of the continuum of area of impact for hazard events, tornadoes are isolated. Typically ranging from a few hundred to one or two miles across, tornadoes affect far less area than larger meteorological events such as tropical cyclones, winter storms and severe weather events. An exact season does not exist for tornadoes. However, most occur between early spring to mid-summer (February-June). The rate of onset of tornado events is rapid. Typically, the appearance of the first signs of the tornado is the descending funnel cloud. This sign may be only minutes from the peak of the event, giving those in danger minimal sheltering time. However, meteorological warning systems attempt to afford those in danger more time to shelter. The frequency of specific tornado intensities is undetermined because no pattern seems to exist in occurrence. Finally, the duration of tornado events ranges from the few minutes of impact on a certain location to the actual tornado lasting up to a few hours.

Tornadoes are measured after the occurrence using the subjective intensity measures. The Enhanced Fujita Scale describes the damage and then gives estimates of magnitude of peak 3-second gusts in miles per hour.

The Enhanced Fujita Scale							
EF Rating	3 second gust (mph)						
0	65-85						
1	86-110 111-135						
2							
3	136-165						
4	166-200						
5	over 200						

Figure 3-22 Wind gust speed intervals for Enhanced Fujita Scale ratings

3.2.4.2 Hazard Profile (Location, Extent, Previous Occurrences)

All areas within Dawson County are vulnerable to the threat of a tornado. Due to the indiscriminate and unpredictable nature of tornadoes, there is no reliable method to determine where or when a tornado will strike. There have been only two documented tornadoes in the last

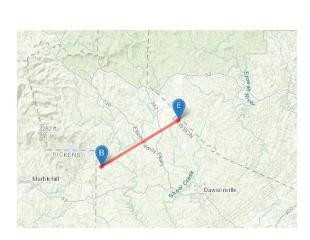






50 years in Dawson County. It is likely that other tornadoes have occurred within this timeframe, but available records are limited in nature.

Individual tornado events can cause extreme damage to an area. This holds true for Dawson County, as well. The strongest and costliest documented tornado to impact Dawson County was an EF4 in 1974. This storm traveled through the community of Juno. The storm caused \$2.5 million in damages and led to 15 injuries and three deaths in Dawson County. For additional historical data, please see Appendix D.



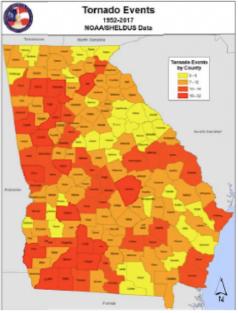


Figure 3-23 1974 EF4 tornado track and historical tornado events in Georgia counties (Source: National Climatic Data Center, 2019 State of Georgia Hazard Mitigation Strategy)

3.2.4.3 Probability

NOAA's Storm Prediction Center provides access to reported tornado events since 1986 that can be used to calculate annualized frequency. The dataset includes events with a rating of EF0 to EF5.

The probability of a tornado is Dawson County is somewhat likely (occurring every 20 to 50 years).

The impact of climate change on the frequency and severity of tornadoes is not currently well known. According to the 2019 Georgia Hazard Mitigation Strategy, the anticipated frequency and severity will remain close to historical records.







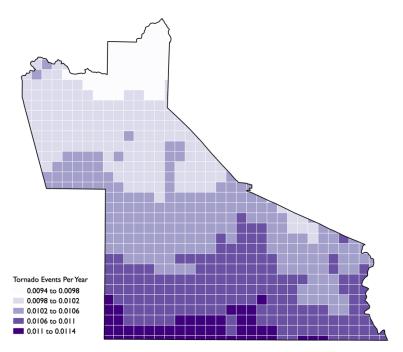


Figure 3-24 Annualized frequency analysis of tornado events in Dawson County (Source: National Oceanic and Atmospheric Administration)

3.2.4.4 Impacts

In evaluating assets that are susceptible to tornadoes, the Dawson County HMPC determined that all public and private property is threatened by tornadoes, including all critical facilities. This is due to the lack of spatial prejudice of tornadoes.

Estimates of damage for the past events of the last 50 years are \$2.7 million, or \$54,000 annually. When only events of the last 25 years are considered, yearly estimations decrease dramatically to \$10,000 annually.

Tornadoes pose a severe and immediate threat to vulnerable populations in Dawson County, as they can strike with little warning and cause widespread destruction. Elderly residents and individuals with disabilities may face difficulties in quickly reaching safe shelter, particularly if they have mobility challenges or depend on caregivers for assistance. Low-income households are more likely to live in mobile homes or older structures that offer less protection against tornadoes, increasing their risk of injury or death. Rural communities may be further from emergency services, prolonging response times and making it difficult to access shelters. Tornado warnings and evacuation instructions may not reach individuals with limited English proficiency in a timely manner, increasing their risk during a rapidly developing emergency. Additionally, power outages and communication disruptions caused by tornadoes can cut off access to life-saving information and services, particularly for those reliant on medical equipment or assistance.

3.2.4.5 Impacts from Future Conditions

Impacts from future conditions for tornados mirrors the impacts from future conditions for other hazards where the effects from climate change are not well known or expected. Even if the







frequency and severity of tornadoes remain constant, damage to life and property will likely increase due to land use and population changes.

3.2.4.6 Multi-Jurisdictional Considerations

All portions of Dawson County could potentially be impacted by a tornado due to the indiscriminate nature of tornadic events. However, property damage numbers would be highest in more heavily populated areas, such as the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor, due to greater population density. Unincorporated areas of the county that have a tourism focus, such as Amicalola Falls State Park, could be particularly impacted by a tornado event. Therefore, all mitigation actions identified regarding tornadoes should be pursued on a countywide basis and include the City of Dawsonville.

3.2.4.7 Hazard Summary

Dawson County remains at risk to potential damage from tornadoes. Should a tornado strike in densely populated areas of the county, significant damage or loss of life could occur. Due to the destructive power of tornadoes, it is essential that the mitigation measures identified in this plan regarding tornado activity receive full consideration.

3.2.5. Natural Hazard: Drought 3.2.5.1 Hazard Description

Drought is a normal, recurrent feature of climate consisting of a deficiency of precipitation over an extended period (usually a season or more). This deficiency results in a water shortage for some social or environmental sector. Drought should be judged relative to some long-term average condition of balance between precipitation and evapotranspiration in a particular area that is considered "normal." Drought should not be viewed as only a natural hazard because the demand people place on water supply affects perceptions of drought conditions. From limited water supplies in urban areas to insufficient water for farmland, the impacts of drought are vast.

Droughts occur in virtually every climatic zone and on every continent. Because the impacts of drought conditions are largely dependent on the human activity in the area, the spatial extent of droughts can span a few counties to an entire country.

Temporal characteristics of droughts are drastically different from other hazards due to the possibility of extremely lengthy durations as well as a sluggish rate of onset. Drought conditions may endure for years or even decades. This factor implicates drought as having a high potential to cause devastation on a given area. The duration characteristic of droughts is so important that droughts are classified in terms of length of impact. Droughts lasting one to three months are considered short term, while droughts lasting 4 to 6 months are considered intermediate and droughts lasting longer than 6 months are long term. With the slow rate of onset, most populations have some inkling that drought conditions are increasingly present. However, barring drastic response measures, most only must adapt to the changing environment.

Seasonality has no general impact on droughts in terms of calendar seasons. However, "wet" and "dry" seasons obviously determine the severity of drought conditions. In other words, areas are less susceptible to drought conditions if the area is experiencing a wet season. The frequency of droughts is undetermined, because the hazard spans such a long period of time.







However, climatologists track periods of high and low moisture content similarly to the tracking of cooling and warming periods.

3.2.5.2 Hazard Profile (Location, Extent, Previous Occurrences)

All portions of Dawson County could potentially be impacted by a drought, but agricultural areas of the county are potentially more at risk. The Dawson County HMPC reviewed data for the last 50 years regarding drought conditions. Historically, agricultural losses have accounted for the vast number of losses related to drought conditions.

There have been two recent examples of "exceptional" drought events affecting Dawson County. These events occurred in 2007 and 2016. Both events reached the D4 (Exceptional Drought) designation, according to data from the United States Drought Monitor. Below are maps of these two events.

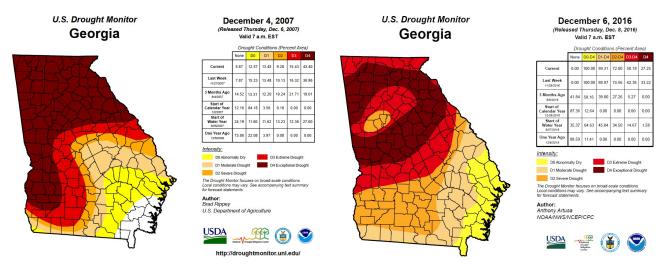


Figure 3-25 Records from 2007 and 2016 exceptional droughts in Dawson County (Source: USDA Drought Monitor – University of Nebraska-Lincoln)



Figure 3-26 Time series graph for drought monitor conditions in Dawson County (Source: USDA Drought Monitor)







Due to poor record keeping and the unpredictable nature of drought conditions, reliability of historical data for the last 50 years is low. Dawson County has been impacted by 10 drought events in the last 20 years, according to data from the National Climatic Data Center. Further, the United States Drought Monitor provides a time series graph of drought monitor conditions for the County since 2000 (Figure 3-26).

3.2.5.3 Probability

The USDA monitors drought conditions based on precipitation, streamflow, reservoir levels, temperature and evaporative demand, soil moisture and vegetation health – historical data can be used to calculate annualized frequency.

The probability of a drought event in Dawson County is highly likely (occurring every 1 to 5 years).

Climate change is going to impact the drought projections for Dawson County. The data projections show that there will be an increase in the number of dry days each year with no precipitation. If the higher emissions projections are correct, then there will be 184 days with no precipitation and if the lower emission projections are correct then there will be roughly 181 days with no precipitation. The projections also show that there will be an increase in the minimum consecutive number of dry days. If the lower emission projections are correct there will be almost 16-day consecutive dry days and 15 days if the higher emission projections are correct. These are demonstrated in the figure below.

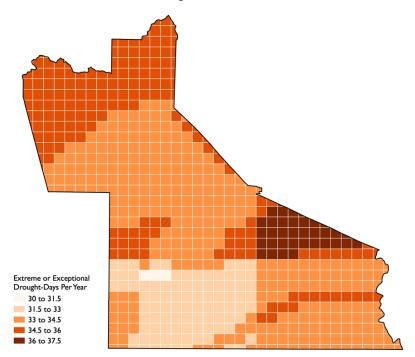


Figure 3-27 Annualized frequency analysis of drought events in Dawson County (Source: United States Department of Agriculture)







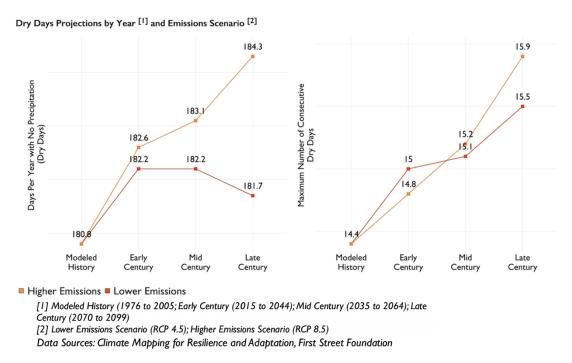


Figure 3-28 Drought-related projections for Dawson County under various emissions scenarios (Source: Climate Mapping for Resilience and Adaptation)

3.2.5.4 Impacts

No damage to structures or critical facilities is expected as a direct result of drought conditions. However, crop damage and subsequent losses can be expected to occur as a result of drought conditions. The degree of losses would depend on the duration of the drought, severity of the drought, temperatures during the drought, season in which the drought occurs, and the specific needs of the involved crops.

According to the 2017 Agriculture Census data, Dawson County's market value of products sold was \$46,825,000. \$939,000 of that total represented crop sales, accounting for 2% of the total. Livestock, poultry and their product sales accounted for 98%, or \$45,886,000, of the total value.

Water system shortages and need for supply assistance for those systems could also lead to economic losses associated with the drought. Water resources could also become scarce during a drought, a condition that would potentially affect all Dawson County residences and critical facilities.

While drought conditions do not typically pose a direct threat to structures, secondary hazards from drought such as increased wildfire threat, does pose a significant threat to all public and private property in Dawson County, including all critical facilities.

Droughts, though often slower-moving hazards, can deeply affect vulnerable populations in Dawson County, particularly low-income households and rural communities dependent on wells or small water systems. Low-income residents may struggle to afford the increased cost of water during prolonged droughts, and those in agricultural sectors could face economic hardship due to crop or livestock losses. The elderly and those with chronic health conditions







may experience exacerbated health issues due to reduced water availability or poor air quality from dust. Children, who depend on reliable water for hygiene and nutrition, may also suffer from the impacts of drought, especially in low-resource households.

3.2.5.5 Impacts from Future Conditions

Combined effects from climate change and population growth can heighten the impacts of drought on Dawson County. Climate change can increase the severity, duration, and frequency of drought events, while population growth can lead to increased reliance on water infrastructure and wells countywide. This increased pull on these resources in Dawson County could quicken or deepen the impacts of a drought for residential, commercial, and industrial areas.

3.2.5.6 Multi-Jurisdictional Considerations

All portions of Dawson County could potentially be impacted by a drought, but agricultural areas of the county are potentially more at risk. Crop damage from drought events would likely have the greatest impact in the rural areas of Dawson County. However, the greater population density of the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor could indicate a greater population impact of a significant drought event that threatens water supply needs. Therefore, all mitigation actions identified regarding drought should be pursued on a countywide basis and include the City of Dawsonville.

3.2.5.7 Hazard Summary

Drought conditions can cause significant economic stress on the agriculture and forestry interests of Dawson County. The potential negative secondary impacts of drought are numerous. They include increased wildfire threat, decreased water supplies for residential and industrial needs, stream-water quality, and water recreation facilities. The Dawson County HMPC recognizes the potential threats drought conditions could have on the community and have identified specific mitigation actions as a result.

3.2.6. Natural Hazard: Wildfire 3.2.6.1 Hazard Description

A wildfire is an uncontained fire that spreads through the environment. Wildfires can consume large areas, including infrastructure, property, and resources. When massive fires, or conflagrations, develop near populated areas, evacuations could possibly ensue. Not only do the flames impact the environment, but the massive volumes of smoke spread by certain atmospheric conditions also impact the health of nearby populations.

Wildfires result from the interaction of three crucial elements: fuel, ignition (heat), and oxygen. Natural and manmade forces cause the three crucial elements to coincide in a manner that produces wildfire events. Typically, fuel consists of natural vegetation. However, as the urban and suburban footprint expands, wildfires may utilize other means of fuel, such as buildings. In terms of ignition or source of heat, the primary source is lightning. However, humans are more responsible for wildfires than lightning. Manmade sources vary from the unintentional, such as fireworks, campfires, or machinery, to intentional arson. With these two elements provided, the wildfires may spread if oxygen is present.







Weather is the most variable factor affecting wildfire behavior. Strong winds propel wildfires quickly across most landscapes unless firebreaks are present. Shifting winds create erratic wildfires, which can complicate fire management efforts. Dry conditions provide faster-burning fuels, either making the area more vulnerable to wildfire or increasing the mobility of preexisting wildfires.

Wildfires are notorious for spawning secondary hazards, such as flash flooding and landslides, long after the original fire is extinguished. Both flash flooding and landslides result from fire consuming the natural vegetation that provides precipitation interception and infiltration as well as slope stability.

All of Georgia is prone to wildfire due to the presence of wildland fuels associated with wildfires. Land cover associated with wildland fuels includes coniferous, deciduous, and mixed forest; shrubland; grassland and herbaceous; transitional; and woody and emergency herbaceous wetlands. The spatial extent of wildfire events greatly depends on both the factors driving the fire as well as the efforts of fire management and containment operations.

In terms of seasonality, wildfires can occur during any season of the year. However, drier seasons, which vary within the State of Georgia, are more vulnerable to severe wildfires because of weather patterns and the abundant quick-burning fuels. In terms of rate of onset and duration, wildfires vary depending on the available fuels and weather patterns. Some wildfires can engulf an area in a matter of minutes from the first signs whereas others may be slower burning and moving. The frequency of wildfires are not typically measured because of the high probability of human ignition being statistically unpredictable. Magnitude and intensity are typically only measured by size of the wildfire and locations of burning.

Three classes of fires include understory, crown, and ground fires. Naturally induced wildfires burn at relatively low intensities, consuming grasses, woody shrubs, and dead trees. These understory fires often play an important role in plant reproduction and wildlife habitat renewal and self-extinguish due to low fuel loads or precipitation. Crown fires, which consist of fires consuming entire living trees, are low probability but high consequence events due to the creation of embers that can be spread by the wind. Crown fires typically match perceptions of wildfires. In areas with high concentrations of organic materials in the soil, ground fires may burn, sometimes persisting undetected for long periods until the surface is ignited.

3.2.6.2 Hazard Profile (Location, Extent, Previous Occurrences)

Wildfires pose a serious threat to Dawson County. This is a result of the high amount of forestland and vegetation available to fuel potential wildfires. Also, there is an increasing amount of wildland-urban interface (WUI) in Dawson County, which is defined as areas where structures and other human development meets undeveloped wildland properties. 98% of Dawson County's population lives within the WUI.







The Georgia Forestry Commissions has an online wildfire database for the State with data from 2012. From 2012 through June 2023, there were 125 wildfires in Dawson County.

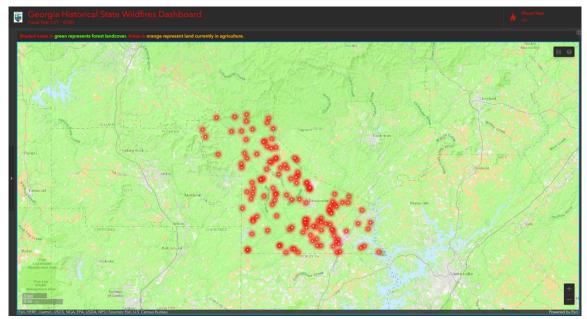


Figure 3-29 Locations of wildfires in Dawson County (2012 through June 2023) (Source: Georgia Forestry Commissions)

The Southern Group of State Foresters also maps the 95th percentile fire intensity scale, which represents the "average-worst" 95th percentile fire intensity scale at the flaming front of the fire. Average-worst is defined as the average of the worst five percent of weather types. These estimates include the contribution of crown fire spread rate, if applicable.

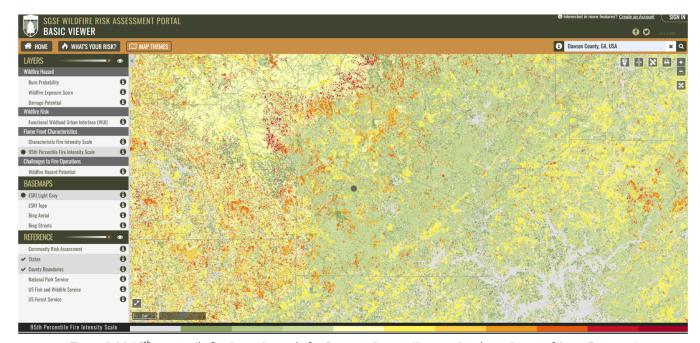


Figure 3-30 95th percentile fire intensity scale for Dawson County (Source: Southern Group of State Foresters)







3.2.6.3 Probability

The USFS generated a series of spatial datasets representing burn probability through its geospatial Fire Simulation (FSim) system. FSim is designed to simulate the occurrence and growth of wildfires under tens of thousands of hypothetical contemporary fire seasons in order to estimate the probability of a given area burning under current (circa 2014) landscape conditions and fire management practices. Based on the burn probability dataset, the probability of a large wildfire event in Dawson County is unlikely (occurring every 50 years or less).

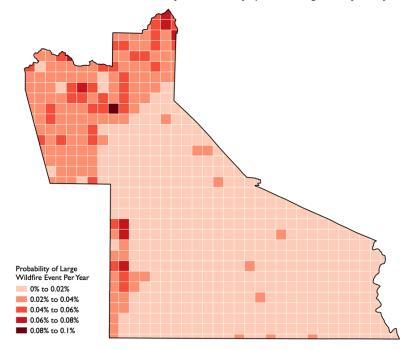


Figure 3-31 Burn probability in Dawson County (Source: United States Forest Service)

The probability of wildfire events in Dawson County may increase though due to climate change. The potential change is attributed to the same reasons described for increase drought probability: the data projections show that there will be an increase in the number of dry days each year with no precipitation and in the minimum consecutive number of dry days.

3.2.6.4 Impacts

All public and private property located within the wildland-urban interface (WUI), including critical infrastructures, are susceptible to impacts from wildfires. Due to the large area of wildland area in Dawson County and the large amount of WIU, all public and private property, including critical infrastructures, could be directly or indirectly impacted by the threat of wildfire.

Little information is available regarding damages, in terms of dollars, for wildfire losses in Dawson County. According to the 2017 Agriculture Census by the USDA, Dawson County has \$939,000 in annual crop sales. These areas would potentially be impacted by a wildfire event.

Wildfires in Dawson County present significant risks to vulnerable populations, especially given the speed at which they can spread. Elderly residents and individuals with disabilities may struggle to evacuate quickly due to mobility issues or a dependence on caregivers, increasing





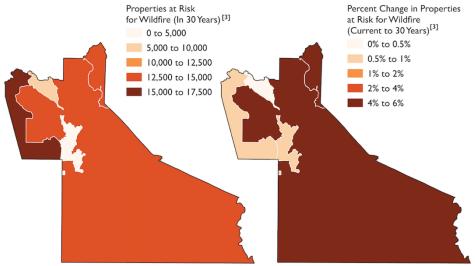


their risk of being trapped in fire-prone areas. Low-income households may live in areas with inadequate fire mitigation measures or may not have the resources to prepare their homes against wildfire hazards. Rural communities are particularly vulnerable, as they may be located in more isolated, forested areas where wildfires are more likely to occur and where emergency response times are slower. Individuals with limited English proficiency may have difficulty receiving or understanding evacuation orders and safety information in a timely manner. Additionally, wildfire smoke can worsen respiratory conditions, disproportionately affecting the elderly, children, and those with pre-existing health conditions like asthma, making the health impacts of wildfires especially dangerous for these groups.

3.2.6.5 Impacts from Future Conditions

With the continued increase in population, WUI is increasing in Dawson County. The WUI creates areas where fire can easily move from wildland areas into developed areas and threaten structures and human life. The expansion of the WUI in Dawson County complicated wildland fire management operations and planning initiatives. This development trend is expected to continue in the future.

Climate change is also expected to impact wildfire risk in Dawson County. There is an expected increase in properties that are at risk for wildfire in 30 years especially in the northwestern part of the county. Over the next 30 years there will be potential for up to a 6% increase in the number of properties at risk of wildfires in the County.



[3] Calculated on the zip code-level; values for zip codes that span multiple counties represent the entire zip code (not restricted to the portion within Dawson County)

Data Sources: Climate Mapping for Resilience and Adaptation, First Street Foundation

Figure 3-32 Projected impacts to properties from wildfire (Source: Climate Mapping for Resilience and Adaptation)

3.2.6.6 Multi-Jurisdictional Considerations

All portions of Dawson County, including the City of Dawsonville, could potentially be impacted by a wildfire due to the large amount of WUI, but the less developed areas of the county are more vulnerable. The 2017 Dawson County CWPP performed a risk assessment of Dawson County as five separate geographic zones. Four of these zones were shown to have moderate wildfire risk and one – Big Canoe – was identified as having a high wildfire risk. Unincorporated







areas of the county that have a tourism focus, such as Amicalola Falls State Park, could be particularly impacted by a wildfire event. Therefore, all mitigation actions identified regarding wildfires should be pursued on a countywide basis and include the City of Dawsonville.

3.2.6.7 Hazard Summary

Wildfire is a significant threat to Dawson County due to the increased amount of WUI. The increasing amount of area where structures and other human development meets undeveloped, wildland property is where 98% of Dawson County's population lives. The mitigation measures identified in this plan should be aggressively pursued based on the high frequency of this hazard and the ability for wildfires to inflict devastation anywhere in Dawson County.

3.2.7. Natural Hazard: Earthquakes

3.2.7.1 Hazard Description

Earthquakes are generally defined as the sudden motion or trembling of the Earth's surface caused by an abrupt release of slowly accumulated strain. This release typically manifests on the surface as ground shaking, surface faulting, tectonic uplifting and subsidence, or ground failures, and tsunamis. In the United States, earthquake activity east of the Rocky Mountains is relatively low compared to the Western states because it is away from active plate boundaries and the plate interior strain rates are known to be very low.

The physical property of earthquakes that causes most damage within the United States is ground shaking. The vibrations from the seismic waves that propagate outward from the epicenter may cause failure in structures not adequately designed to withstand earthquakes. Because the seismic waves have different frequencies of vibration, the waves disseminate differently through sub-surface materials. For example, high frequency compression and shear waves arrive first, whereas lower frequency Rayleigh and love waves arrive later. Not only are the speeds varied between seismic waves, but also the types of movement. The surface vibration may be horizontal, vertical, or a combination of the two, which causes a wider array or structures to collapse.

Another manifestation of earthquakes is surface faulting. This phenomenon is defined as the offset or tearing of the earth's surface by a differential movement across a fault. Structures built across active faults tend to sustain damage regularly. There are no active faults within or near Georgia. Distinct inactive faults are known within the state north or the Columbus to Macon to Augusta fall line and running generally northeast- southwest.

The third earthquake phenomenon that causes damage is tectonic uplift and subsidence. Tectonic uplift can cause shallowing of the harbors and waterways while tectonic subsidence can cause permanent or intermittent inundation. Due to the association of tectonic uplift and subsidence with active faults, Georgia is not at risk to these phenomena.

The fourth earthquake damage-causing phenomena are earthquake-induced ground failures, including liquefaction and landslides. During an earthquake, the areas that are rich in sand and silt have groundwater within 30 feet of the surface temporarily behave as viscous fluids during strong ground shaking. Structures built on these materials can settle, topple, or collapse as the ground "liquefies" beneath it. Landslides can also form when earthquake shaking or seismic activity dislodges rock and debris on steep slopes, triggering rock falls, avalanches, and slides.







Also, unstable, or nearly unstable slopes consisting of clay soils may lose shear strength when disturbed by ground shaking and fail, resulting in a landslide. Georgia is at very low risk of seismic induced liquefaction or landslides.

The last of the earthquake-induced phenomena are tsunamis, which are large, gravity- driven waves triggered by the sudden displacement of a large volume of water. The waves produced travel in all directions from the origin at speeds of up to 600 miles per hour. In deep water, tsunamis normally have small wave heights. However, as the waves reach shallower water near land, the wave speed diminishes, and the amplitude drastically increases. Upon impact with a shoreline, the waves can inundate land rapidly, engulfing everything in its path. Successive wave crests follow, typically arriving minutes to hours later, frequently with later arrivals being more dominant. Frequently, the first tsunami waves are downward, causing dramatic exposure of the beach. Because of this, people are often killed trying to collect newly exposed seashells when the positive waves then arrive.

Although large tsunamis are rare in the eastern coast of the US, the possibility of such events occurring anywhere along the Atlantic and Gulf coast exists.

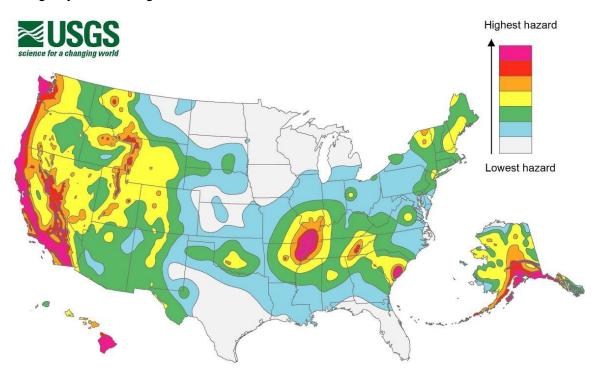


Figure 3-33 2018 long-term national seismic hazard map (Source: United States Geologic Survey)

3.2.7.2 Hazard Profile (Location, Extent, Previous Occurrences)

Dawson County is not one of the 37 Georgia counties with the highest earthquake risk, according to the Georgia Emergency Management Agency and Georgia Institute of Technology School of Earth and Atmospheric Sciences. The entire county is at risk of earthquakes.







Instrumental Intensity	Acceleration (%g)	Velocity (cm/s)	Perceived Shaking	Potential Damage			
ı	< 0.17	< 0.1	Not Felt	None			
II-III	0.17 - 1.4	0.1 - 1.1	Weak	None			
IV	1.4 - 3.9	1.1 - 3.4	Light	None			
V	3.9 - 9.2	3.4 - 8.1	Moderate	Very light			
VI	9.2 - 18	8.1 - 16	Strong	Light			
VII	18 - 34	16 - 31	Very Strong	Moderate			
VIII	34 - 65	31 - 60	Severe	Moderate to Heav			
IX	65 - 124	60 - 116	Violent	Heavy			
X.	> 124	> 116	Extreme	Very Heavy			

Figure 3-34 Modified Mercalli scale values

In reviewing data of the last 50 years, no earthquakes have originated from within Dawson County. However, earthquakes with a magnitude of 2.0 or greater have occurred as close as Cumming, Georgia. The strongest earthquake to occur within this radius was a 3.2M that occurred in North Carolina, just north of McCaysville, Georgia. Historically, the 1886 Charleston, SC earthquake, estimated to be between 6.6M and 7.3M on the modern Richter Scale, likely caused impacts to Dawson County. Although no historical records exist exhibiting any damages, Dawson County was estimated to be in a level VI area of the Modified Mercalli Intensity scale for this event. This would indicate strong shaking felt by everyone inside and outside at the time of the event and characterized by broken windows, movement of heavy furniture, and slight to moderate damage for poorly built buildings. Even with this low number of occurrences, it was determined that if earthquakes occur within or close to the jurisdiction of Dawson County, significant damage could occur. Therefore, the Dawson County HMPC has determined the threat of earthquakes to be higher than the statistics would indicate.

3.2.7.3 Probability

The USGS produces National Seismic Hazard Maps to quantify the frequency and severity of earthquakes. The maps compile all known earthquake sources (and proxies for unknown sources), their distance from the site in question, and other seismological and geological information to project potential maximum expected ground motions at a site over a particular period of time. Based on the National Seismic Hazard Maps, Dawson County has a 0.09% to 0.19% probability of experiencing an earthquake of minor-damage shaking each year depending on the location within the County, resulting in an unlikely probability (occurring every 50 years or less).

The probability of an earthquake in Dawson County is unlikely to change with climate change.







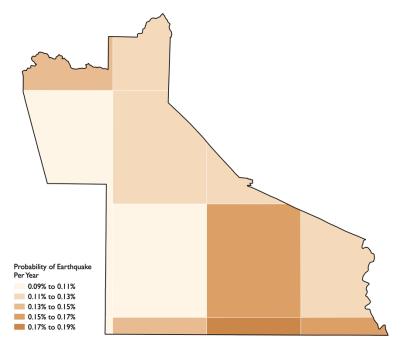


Figure 3-35 Probability of experiencing an earthquake with minor-damage shaking per year (Source: United States Geologic Survey)

3.2.7.4 Impacts

The Dawson County HMPC determined that all critical facilities and all public and private property within Dawson County are susceptible to the impacts of an earthquake due to the lower building codes with regards to earthquakes when compared to other parts of the country. This includes the City of Dawsonville.

Though earthquakes are less common in Dawson County, they pose serious risks to vulnerable populations when they occur. Elderly residents and individuals with disabilities may struggle to evacuate or take cover quickly during an earthquake, putting them at higher risk of injury from falling debris or structural collapse. Low-income households may live in older or poorly constructed homes that are more susceptible to damage during an earthquake, and they may lack the financial resources to retrofit their homes or recover from earthquake damage. Rural residents may face delays in emergency response or have difficulty accessing medical services after an earthquake disrupts transportation infrastructure. Communication barriers for individuals with limited English proficiency could delay their ability to understand emergency warnings or instructions for safe behavior during and after an earthquake. Additionally, children, particularly those in low-income families, are at risk as they rely on adults for safety, and schools and childcare facilities must be prepared to respond effectively to protect young populations during such an event.

3.2.7.5 Impacts from Future Changes

Impacts from future conditions for earthquakes mirrors the impacts from future conditions for other hazards where the effects from climate change are not well known or expected. Even if the frequency and severity of earthquakes remain constant, damage to life and property will likely increase due to land use and population changes.







3.2.7.6 Multi-Jurisdictional Considerations

All of Dawson County, including the City of Dawsonville, potentially could be threatened by earthquakes. However, the greater population density of the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor could see more significant impacts of an earthquake events. These areas also have the greatest density of commercial areas that could be particularly impacted by this type of event. As such, all earthquake mitigation actions should be pursued on a countywide basis and include the City of Dawsonville.

3.2.7.7 Hazard Summary

Even with the infrequency of earthquake impacts in Dawson County, the potential losses and impacts associated with the event would severely damage the infrastructure and economic viability of the County and the City of Dawsonville. The mitigation measures identified in this plan should be pursued based on the high impact potential of this hazard and the ability for earthquakes to inflict widespread devastation anywhere in Dawson County.

3.2.8. Natural Hazard: Tropical Cyclone

3.2.8.1 Hazard Description

The National Weather Service describes tropical cyclones systems in the Atlantic Basin, including the Gulf of Mexico and Caribbean Sea, into four types based on strength.

Tropical Disturbance: A discrete tropical weather system of apparently organized thunderstorms – generally 100 to 300 nautical miles in diameter – originating in the tropics or subtropics, and maintaining its identity for 24 hours or more.

Tropical Depression: An organized system of clouds and thunderstorms with a defined circulation and maximum sustained winds of 38 mph (33 knots) or less.

Tropical Storm: An organized system of strong thunderstorms with a defined circulation and maximum sustained winds of 39 mph to 73 mph (34-63 knots).

Hurricane: An intense tropical weather system with a well-defined circulation, producing maximum sustained winds of 74 mph (64 knots) or greater. Hurricane intensity is classified into five categories using the Saffir-Simpson Hurricane scale. Winds in a hurricane range from 74-95 mph for a Category 1 hurricane to greater than 156 mph for a Category 5 hurricane.







Saffir-Simpson Scale for Hurricane Classification											
Strength	Wind Speed (Kts)	Wind Speed (MPH)	Pressure (Millibars)	Pressure							
Category 1	64- 82 kts	74- 95 mph	>980 mb	28.94 "Hg							
Category 2	83- 95 kts	96-110 mph	965-979 mb	28.50-28.91 "Hg							
Category 3	96-113 kts	111-130 mph	945-964 mb	27.91-28.47 "Hg							
Category 4	114-135 kts	131-155 mph	920-944 mb	27.17-27.88 "Hg							
Category 5	category 5 >135 kts		919 mb	27.16 "Hg							
	Tropica	al Cyclone Cla	ssification								
Tropical De	pression	20-34kts									
Tropical Sto	orm	35-63kts									
Hurricane		64+kts or 74+mph									

Figure 3-36 Saffir-Sampson scale for hurricane classification and wind speed intervals for other tropical cyclone classifications

Tropical cyclones can cause catastrophic damage to coastlines and areas several hundred miles inland. Tropical cyclones can produce sustained high winds and spawn tornadoes and microbursts. Additionally, tropical cyclones can create storm surges along the coast and cause extensive damage from heavy rainfall. Floods and flying debris from the excessive winds are often the deadly and destructive results of these weather events.

Slow moving tropical cyclones traveling into mountainous regions tend to produce especially heavy rain. Excessive rain can trigger landslides or mudslides. Flash flooding can also occur due to intense rainfall.

Each of these hazards present unique characteristics and challenges; therefore, the following have been separated and analyzed as individual hazards: Tropical cyclones, Thunderstorms, Tornadoes, and Flooding. This section will focus on the direct effects of tropical cyclones.

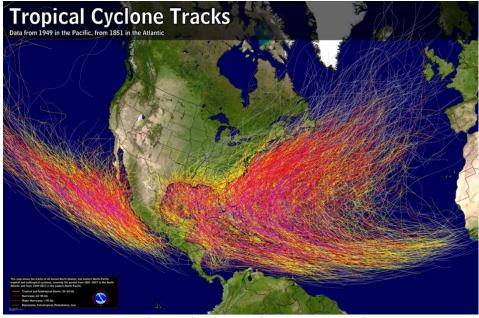


Figure 3-37 Historical tropical cyclone tracks (Source: National Hurricane Center)







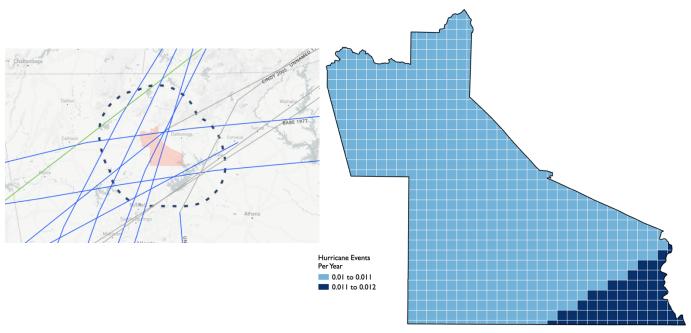
3.2.8.2 Hazard Profile (Location, Extent, Previous Occurrences)

Tropical cyclones have directly impacted Dawson County on an infrequent basis over the last 50 years. However, the possibility of a hurricane or tropical storm retaining their wind strength as far inland as Dawson County is possible. There have been fifteen documented impacts from tropical cyclones in Dawson County.

Three tropical cyclones – Hurricane Babe in 1977, Hurricane Cindy in 2005, and Hurricane Frances in 2004 – had a track that directly dissected Dawson County in the last 50 years. All 3 storms were below tropical storm strength at the time they entered Dawson County. Hurricane Frances brought strong winds across north Georgia with sustained speeds of 25 mph in the Dawson County area. In 2020, Hurricane Zeta was a tropical storm when it made its way through Georgia and brought impacts to Dawson County. Dawson County had downed trees and power outages due to the storm. The County received a federal disaster declaration because of the storm.

3.2.8.3 Probability

The annualized frequency within Dawson County was determined using historical hurricane track data from NOAA's HURDAT2. The probability of a hurricane in Dawson County is unlikely (occurring every 50 years or less), but based on previous occurrence data from NOAA, there is a greater probability of tropical cyclone with lower wind speeds – the probability of a tropical cyclone is likely (occurring every 5 to 20 years).



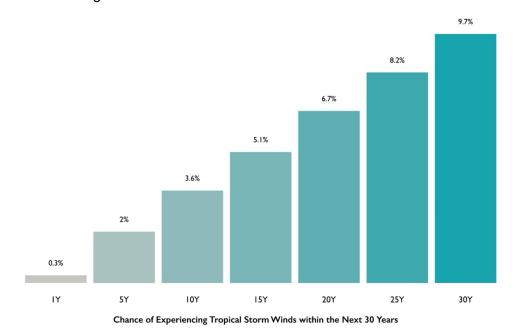
Figures 3-38 and 3-39 Tropical cyclone tracks in and near Dawson County (Source: Office of Coastal Management) and annualized frequency analysis of hurricane events in Dawson County (Source: National Oceanic and Atmospheric Administration)

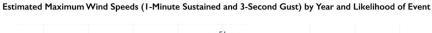






The chance of experiencing higher wind speeds is projected to increase over the next 30 years with the chance of experiencing tropical storm winds increasing by almost 10%. For wind climate change projections, the data shows that in 30 years, there will be higher gust wind speeds. There will also be higher maximum sustained wind speeds as well. These are demonstrated in the figure below.





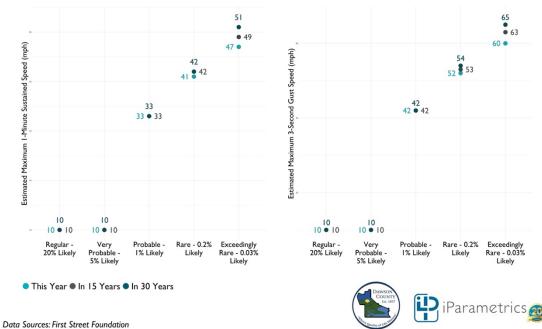


Figure 3-40 Wind speed and tropical storm probability projections for Dawson County (Source: First Street Foundation)







3.2.8.4 Impacts

The HMPC determined that all critical facilities and all public and private property within Dawson County are susceptible to direct and indirect impacts of a tropical cyclone.

Based upon the 2024 Dawson County HAZUS report, a wind damage assessment modeling a tropical storm with maximum winds of 64 mph (1% chance storm event) could result in almost \$380,000 of economic loss with the highest loss ratio occurring in the north.

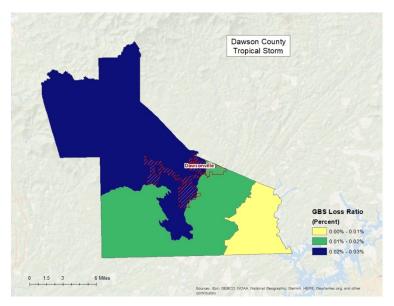


Figure 3-41 Hurricane wind building loss ratios (Source: 2024 Dawson County HAZUS Report)

No essential facilities were damaged in the model, but 22 facilities resulted in expected loss of use. Further, the model resulted in 17 tons of expected debris generated from hurricane wind (classification of brick, wood, and other).

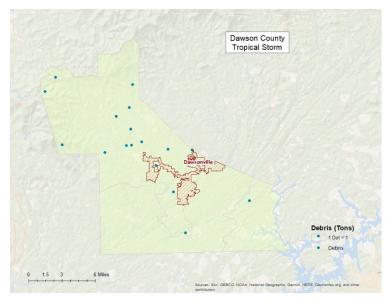


Figure 3-42 Wind-related debris weight (tons) (Source: 2024 Dawson County HAZUS report)







Hurricanes pose a significant threat to vulnerable populations in Dawson County, particularly due to the associated high winds, heavy rainfall, and potential flooding. Elderly residents and individuals with disabilities may find it difficult to evacuate in a timely manner, especially if they rely on mobility aids or caregivers. Low-income households are more likely to live in housing that is less resistant to high winds and may lack the financial resources to prepare adequately, such as by reinforcing windows or purchasing emergency supplies. Rural communities may be more isolated during a hurricane, making it harder for them to access emergency services, shelters, or medical care. Individuals with limited English proficiency may face challenges receiving and understanding critical evacuation orders and weather updates, leaving them more vulnerable to harm. Additionally, hurricanes often result in prolonged power outages, which can be especially dangerous for those who rely on electricity for medical devices or refrigeration of essential medications. Children, particularly in low-income families, may suffer the effects of disrupted services, including access to food, clean water, and shelter.

3.2.8.5 Impacts from Future Conditions

Impacts in the future will likely be heightened due to climate change and population change. Climate change is expected to cause higher and more probable wind speeds, resulting in greater damage to infrastructure and loss of life. Increased population will also result in more development and population density, resulting in increased damage to property and life regardless of increases in wind speeds.

3.2.8.6 Multi-Jurisdictional Considerations

Tropical Cyclone events have impacted all areas of Dawson County. Crop damage from tropical cyclone events would likely have the greatest impact in the rural areas of Dawson County. However, property damage numbers would be highest in more heavily populated areas, such as the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor, due to greater population density. Additionally, any riverine flooding as a result of a tropical cyclone would have the greatest impact on areas along the Etowah River and its tributaries and distributaries. This would most likely impact areas in unincorporated areas of Dawson County. Tropical Cyclones have the potential to impact all areas of Dawson County.

3.2.8.7 Hazard Summary

Even with the relative infrequency of tropical cyclone impacts in Dawson County in the recent past, the potential losses and impacts associated with the event would severely damage the infrastructure and economic viability of the County and the City of Dawsonville. Dawson County's proximity to the Atlantic coast increases the likelihood of a tropical cyclone impacting the area. The mitigation measures identified in this plan for tropical cyclones should be pursued based on the high impact potential of this hazard and the ability for tropical cyclones to inflict widespread devastation anywhere in Dawson County. Dawson County has had five Federally Declared Disaster related to Tropical Cyclones, most recently in 2020 (Hurricane Zeta).

3.2.9. Natural Hazard: Extreme Temperatures

3.2.9.1 Hazard Description

Extreme temperatures occur on both ends of the spectrum with excessive heat and excessive cold being a concern in the area. Excessive temperatures can impact every person throughout







the community. It is important to ensure that people are prepared for the extreme heat and extreme cold scenarios as both can have impacts.

The National Weather services has a heat index that is used to determine if the heat is dangerous. The heat index is pictured below. The NWS will issue an alert when the heat index is expected to exceed 105 – 110 degrees Fahrenheit for at least 2 days in a row.

The National Weather Service will issue a Wind Chill warning if dangerous cold wind chill values are expected or are happening currently. The below Wind Chill Chart shows the temperatures and wind speeds where frostbite can happen. The higher the wind speed and the colder the temperature the quicker frostbite will set in.

NWS Heat Index Temperature (°F)																	
		80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
	40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
	45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
Humidity (%)	50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
Š	55	81	84	86	89	93	97	101	106	112	117	124	130	137			
ig	60	82	84	88	91	95	100	105	110	116	123	129	137				
트	65	82	85	89	93	98	103	108	114	121	128	136					
	70	83	86	90	95	100	105	112	119	126	134						
Ke	75	84	88	92	97	103	109	116	124	132							
Relative	80	84	89	94	100	106	113	121	129								
Re	85	85	90	96	102	110	117	126	135								
	90	86	91	98	105	113	122	131								no	AA
	95	86	93	100	108	117	127										
	100	87	95	103	112	121	132										N COLOR
Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity																	
	Caution						treme	Cautio	n			Danger		E)	ktreme	Dange	er

Figure 3-43 Likelihood of heat disorders with varying temperatures and relative humidity values (Source: National Oceanic and Atmospheric Administration)



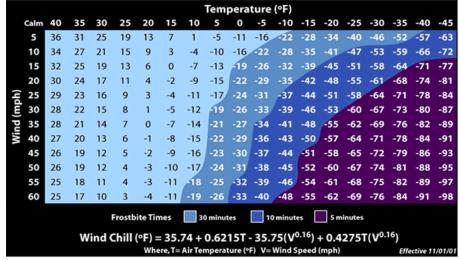


Figure 3-44 Frostbite times with varying temperature and wind values (Source: National Oceanic and Atmospheric Administration)







3.2.9.2 Hazard Profile (Location, Extent, Previous Occurrences)

The entire county is at risk of extreme temperatures. Further, in the case of an extreme temperature event, the event will likely affect the entire county as the hazard is typically a regional event as opposed to a localized event.

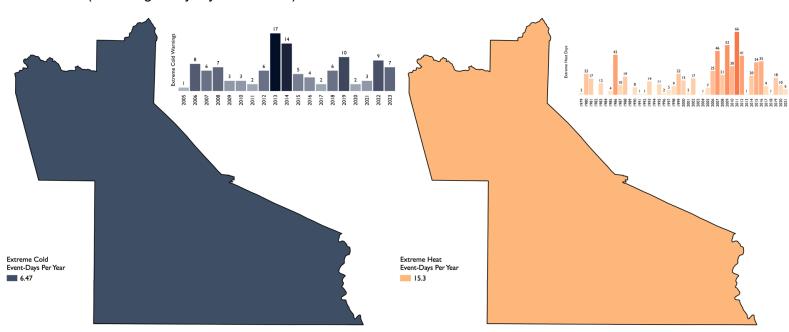
The National Weather Service weather forecast offices issue weather warnings when an office has at least an 80% confidence level of an event occurrence (generally within 24 to 36 hours). Days are considered extreme cold days the forecast office issues a warning for extreme cold or wind chill. From 2005 to 2022, no extreme cold warnings were issued, but wind chill warnings were issued when the wind chill index was less than or equal to 25°F for at least 3 hours using only sustained wind. The forecast office issued warnings on 115 days during this time period.

Extreme heat events are periods in which an absolute or relative threshold is surpassed for a duration of at least 2 or 3 consecutive days. For this analysis, an extreme heat day is based on the 90th percentile relative value – for each calendar day, the daily high was determined for the period between 1979 and 2019 (May through September only) and any day above the 90th percentile temperature is considered an extreme heat day. There were 658 extreme heat days recorded during this time period.

3.2.9.3 Probability

Using the data described above, the annualized frequencies of extreme cold and extreme heat events were determined.

The probabilities of extreme cold and extreme heat days in Dawson County are extremely likely (occurring every 1 year or more).



Figures 3-45 and 3-46 Annualized frequency analysis of extreme cold and heat events in Dawson County (Source: Iowa State University, Centers for Disease Control and Prevention)





Data Sources: First Street Foundation



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For extreme heat the number of annual "Hot Days" is predicted to increase over the next 30 years. In the next year, it is expected that the County will see roughly 7 "Hot Days" but in 30 years the County will see roughly 18 "Hot Days" each year. The average daily high temperature is expected to increase as well. This year, the average daily high temperature during the hottest month of the year is expected to be 85 degrees while in 30 years that number is expected to be 88 degrees. The likelihood of a 3-day heat wave in on the County is expected to rise by almost 30% over the next 30 years. With the increase in temperatures, there is an expected 16.3% increase in energy usage in 30 years.

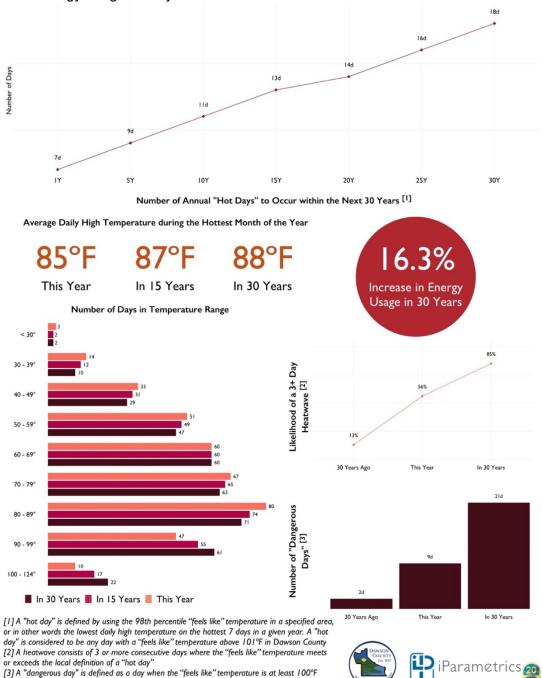


Figure 3-47 Extreme heat-related projections for Dawson County (Source: First Street Foundation)







3.2.9.4 Impacts

Extreme temperatures can impact all areas of the County. With regards to direct impacts, extreme temperature events can cause crop damages as well as damages to the temperature regulation systems of physical assets (e.g. HVAC and heating) that may be pushed to capacity. Extreme temperatures also impact people and it is important to be aware of vulnerable populations. For extreme heat, the elderly, infants, and children are at risk for health problems if exposed for too long. Extreme heat can cause heat stroke, cramps, and exhaustion. If left untreated these issues can be fatal. The impacts of extreme cold can be felt by people of any age. If left exposed to colder temperatures for too long, people can become hypothermic and get frost bite.

Further, extreme temperatures can lead to other hazard-related impacts when coupled with complementary hazards (e.g. extreme cold coupled with precipitation can lead to winter weather and its impacts, extreme heat and drought can lead to exasperated drought impacts, etc.).

Extreme temperatures, whether heatwaves or cold snaps, disproportionately affect Dawson County's vulnerable populations. Elderly residents and individuals with pre-existing health conditions, especially heart or respiratory issues, are more susceptible to heat-related illnesses or hypothermia. Low-income households may lack adequate heating or cooling systems, putting them at greater risk during temperature extremes. Homeless individuals face direct exposure to dangerous temperatures, while children, particularly in low-income families, are vulnerable to health risks from inadequate protection. Limited English proficiency populations may struggle to receive critical information about cooling or warming centers during extreme weather events.

3.2.9.5 Impacts from Future Conditions

Extreme heat should of be special concern regarding impacts from future conditions due to the effects of climate change. As described above, extreme heat days are expected to be more frequent and more severe, heightening all impacts from extreme heat listed above.

Further, population growth will increase vulnerable populations, requiring additional resources to combat the impacts from extreme temperature events.

3.2.9.6 Multi-Jurisdictional Considerations

All portions of Dawson County could potentially be impacted by extreme temperatures. The impacts will be higher in the areas with higher population densities such as the City of Dawsonville and parts of Dawson County along the Georgia Highway 400 corridor because of the larger population density in those areas.

3.2.9.7 Hazard Summary

Extreme temperatures can be both extreme heat and extreme cold. If a certain threshold is reached, then extreme temperature warnings can be put in place. If people are exposed to either extreme heat or extreme cold for too long, then it could potentially be fatal. It is important to put protocols in place to be prepared for people to be exposed to this hazard.







3.2.10. Technological Hazard: Hazardous Materials 3.2.10.1 Hazard Description

Hazardous materials, or hazmat, refers to any materials that may pose a real hazard to human health and/or the environment because of its quantity, concentration, and/or physical or chemical characteristics. Hazardous materials include explosives, flammables, combustibles, oxidizers, toxic materials, radioactive substances, and corrosives. Specific federal and state regulations exist regarding the transport and storage of hazardous materials.

A hazardous materials spill or release occurs when a hazardous material gets into the environment in an uncontrolled fashion. Response to a hazmat spill or release depends greatly on the type of material involved and the subsequent physical and chemical characteristics. Major sources of hazardous materials spills include transportation accidents on roadways and railways, pipeline breaches, and spills into rivers and creeks. Jurisdictions with facilities that produce, process, or store hazardous materials are at risk, as are facilities that treat or dispose of hazardous materials.

3.2.10.2 Hazard Profile (Location, Extent, Previous Occurrences)

Incidents involving hazardous materials may arise at various stages, including production, transportation, usage, and storage, anywhere within Dawson County. Individuals in close proximity to the processing and storage of such materials face potential risks of exposure to toxic fumes, soil contamination, and water contamination. Additionally, communities located at a distance from production or storage facilities are not exempt from risks, as hazardous materials are regularly transported through roadways, railways, pipelines, and waterways. This underscores the fact that all areas within the County are susceptible to potential hazards.

Data from the United States Coast Guard National Response Center (NRC) was reviewed regarding hazardous materials spill history in Dawson County. Data is available from 1982 to 2022 and all available data was reviewed. There were 6 NRC reported hazardous materials spills or releases in Dawson County over a 40-year period. It is anticipated that many more hazardous materials incidents have occurred over the last 40 years but have not been reported.

3.2.10.3 Probability

Major hazardous materials incidents resulting in mass-casualties are rare and have not occurred historically in Dawson County. Reports of hazardous material spills and releases, however, are increasingly commonplace. Chemical spills of significant magnitude have the potential to happen in facilities engaged in the production, usage, or storage of chemicals. These facilities encompass chemical manifesting plants, laboratories, shipyards, railroad yards, warehouses, and areas designated for chemical disposal. Furthermore, unauthorized dumpsites may emerge in various locations. Accidents related to the transportation of hazardous materials can transpire at any given moment, causing substantial repercussions for the nearby community with one of the greatest areas of concern for the County being along the US Highway 19 corridor that runs through the center of Dawson County. Apart from the risks to human health, such incidents can have far-reaching effects on the environment and the economic sectors linked to aquaculture and agriculture.







The probability of this hazard in Dawson County is very likely (occurring every 1 to 5 years). The probability will likely increase in the future though for fixed facilities incidents as Dawson County continues to grow its industrial footprint.

3.2.10.4 Impacts

The environment is particularly vulnerable to the threat posed by hazardous materials. Waterways are at a high risk for contamination from hazardous materials. Water contamination is of concern to the Dawson County HMPC. Public and private property located near fixed hazardous materials facilities are also a greater risk than the general population of Dawson County.

Estimation of potential losses is difficult regarding hazardous materials due to the vast array of potential types of hazardous materials that could be involved in the incident and unknown costs regarding environmental damages. No recorded information was found regarding the losses associated with hazardous materials incidents in Dawson County. However, a hazardous materials release, whether in transport or at a fixed facility, would incur significant costs regarding emergency response, potential road closures, evacuations, watershed protection measures, expended man-hours, and cleanup materials, equipment, and personnel.

3.2.10.5 Impacts from Future Conditions

As hazardous material incidents are man-made incidents, climate change is not expected to directly play a role in impact changes. Indirectly though, hazardous material facilities may be affected by changes in flooding and wildfires leading to accidental releases. For example, increased flooding could inundate tanks and pipelines, leading to damaged pipelines and subsequent releases. Further, wildfires can lead to power outages which may affect the safe operations of hazardous material facilities.

The increase in Dawson County's population and industrial sector may also result in impact changes. The growth of the industrial sector heightens the risk of hazardous material incidents due to increased production and usage, greater transportation volumes, and the potential for human errors and infrastructure limitations. This expansion necessitates a proactive approach to safety measures, training, and emergency response protocols to mitigate the elevated risks associated with hazardous materials in industrial settings.

3.2.10.6 Multi-Jurisdictional Considerations

All of Dawson County, including the City of Dawsonville, are vulnerable to both fixed facility and transportation-related hazardous materials releases. However, areas of higher commercial density, such as the City of Dawsonville, and areas of greatest of highest traffic, such as the Georgia Highway 400 corridor, are at the greatest risk.

3.2.10.7 Hazard Summary

Hazardous materials incidents pose a significant threat to the citizens, infrastructure, and critical facilities of Dawson County. Unknown quantities of hazardous materials are transported daily through Dawson County and the City of Dawsonville. These materials are transported via highways, with US Highway 19 being of greatest concern. Water contamination as a result of a







hazardous materials spill is of significant concern to the Dawson County HMPC. As a result of the threat posed by hazardous materials, the Dawson County HMPC has identified mitigation actions directly related to this threat.

3.2.11. Technological Hazard: Dam Failure

3.2.11.1 Hazard Description

Georgia law defines a dam as any artificial barrier, which impounds or diverts water, is 25 feet or more in height from the natural bed of a stream or has an impounding capacity at maximum water storage evaluation of 100 acre-feet or more. Dams are generally constructed to provide a ready supply of water for drinking, irrigation, recreation, and other purposes. Dams can be constructed from earth, rock, masonry, concrete or any combination of these materials.

Dam failure is a term used to describe a significant breach of a dam and the subsequent loss of contained water. Dam failure can cause significant damages downstream to structures, roads, utilities, and crops. Dam failure can also put human and animal lives at risk. National statistics indicate that one-third of all dam failures in the United States are caused by overtopping due to inadequate spillway design, debris blocking spillways, or settlement of the dam crest. Another third of all US dam failures are the result of foundation defects, including settlement and slope instability.

3.2.11.2 Hazard Profile (Location, Extent, Previous Occurrences)

There are 7 Category I and 18 Category II dams located within Dawson County. Category I dams are those that would pose a possible threat to human life if a failure were to occur. All Category I dams must be inspected annually according to Georgia's Safe Dams Act.

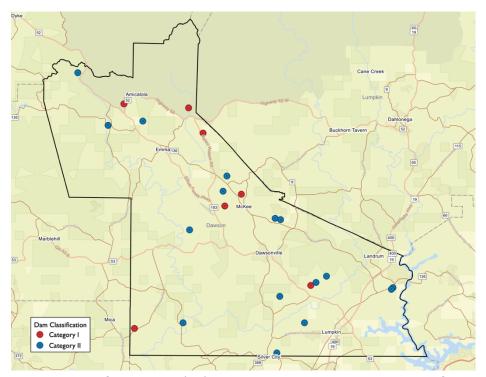


Figure 3-48 Locations of category I and II dams in Dawson County (Source: Georgia's Safe Dams Act)







There are no reported incidents of previous dam failures in Dawson County.

3.2.11.3 Probability

Significant dam failures are low probability but high consequence events. Given that no previous occurrences have happened in the County, the probability of dam failure is unlikely (occurring every 50 years or less). The probability is likely to be affected though by climate change coupled with the aging status of dams.

3.2.11.4 Impacts

The failure of dams in Dawson County could have severe consequences, leading to widespread flooding and property damage downstream. Such incidents pose a significant threat to public safety, potentially resulting in the displacement of communities, loss of lives, and disruption of essential infrastructure. Moreover, the environmental impact may include soil erosion, water contamination, and the alteration of ecosystems, necessitating comprehensive strategies for dam maintenance and emergency preparedness in the region.

A dam failure in Dawson County would have catastrophic effects, especially for vulnerable populations. The rapid flooding that follows a dam failure could overwhelm elderly residents and individuals with disabilities, who may have difficulty evacuating quickly or reaching higher ground in time. Low-income households are more likely to live in areas downstream of a dam, where housing is less expensive but more prone to flood risk. They may also lack the resources to recover after the disaster, such as flood insurance or savings to rebuild. Rural residents in isolated areas could face challenges accessing emergency services and transportation during the event, further delaying evacuation efforts. Those with limited English proficiency might not receive timely or clear warnings, putting them at greater risk if evacuation instructions are not understood. Children, particularly in low-income households, are also vulnerable, as they depend on adults for safety and may be in schools or daycare centers that could be located in flood-prone areas. The sudden nature of dam failure, combined with the potential for widespread infrastructure damage, heightens the risks for these populations.

3.2.11.5 Impacts from Future Conditions

Dawson County participates in the National Flood Insurance Program (NFIP) and follows the program's guidelines to ensure future development is carried out in the best interests of the public. The County (CID No. 130304) first entered the NFIP on December 15, 1990. According to the NFIP guidelines, the County has executed a Flood Damage Prevention Ordinance. This ordinance attempts to minimize the loss of human life and health as well as minimize public and private property losses due to flooding. The ordinance requires any potential flood damage be evaluated at the time of initial construction and that certain uses be restricted or prohibited based on this evaluation. The ordinance also requires that potential homebuyers be notified that a property is located in a flood area. In addition, all construction must adhere to the Georgia State Minimum Standard Codes and the International Building Codes. Currently, the Dawson County municipality of Dawsonville also participate in NFIP.

Climate change and population growth collectively amplify the potential impacts of dam failures, creating a scenario of heightened vulnerability. As climate change induces more extreme weather events, including intense storms and prolonged periods of rainfall, the strain on dam







structures increases, elevating the risk of failure. Simultaneously, population growth often leads to urbanization and expanded settlements in areas downstream of dams, intensifying the human and economic consequences of a failure. The combination of changing climate patterns and burgeoning populations not only raises the likelihood of dam failure but also exacerbates the scale of devastation.

3.2.11.6 Multi-Jurisdictional Considerations

During a dam failure event, many portions of Dawson County would potentially be impacted by flooding. However, the areas most prone to flooding have historically been those areas located within the 100-year floodplain and downstream from dams.

3.2.11.7 Hazard Summary

Dam failure poses a threat to Dawson County and its citizens, infrastructure, and critical facilities. A dam failure could prove catastrophic for areas downstream of the dam, particularly if the failure were to occur at any of the seven Category I dams located in Dawson County. As a result, mitigation efforts for dam failure should be focused in this potentially affected area.

3.2.12. Technological Hazard: Transportation Incident

3.2.12.1 Hazard Description

There are many secondary hazards that could be associated with transportation incidents. Injuries or deaths can occur as a result of the impact of a transportation accident, by a hazardous materials release as a result of a transportation incident, or by other related transportations hazards. Transportation can occur via roadways, highways, interstates, railways, air or navigable waterways. Each transportation type poses their own unique hazard issues and consequences.

Roadway hazards are most likely to be caused by a motor vehicle accident involving one or more cars, trucks, vans, or transport vehicles. These incidents can have injuries as a result of the impact of the MVA or a hazardous materials release into the local environment, including waterways. Railway incidents pose many of the same dangers as motor vehicle accidents. However, the threat of a hazardous materials release is greatly increased when railway transportation incidents are considered.

Air accidents can include commercial airplanes, private airplanes, hot air balloons, helicopters, or other forms of air travel. Each of these incidents can cause a significant threat to human life as well as posing a hazardous material threat due to the cargo being transported or the fuel being used. Navigable waterway incidents can create formidable incidents for response organizations. Because of the waterway, technical expertise is needed to carry out rescue operations, especially in swift-moving waterways. Also, any incident in a waterway is likely to have environmental impacts.

3.2.12.2 Hazard Profile (Location, Extent, Previous Occurrences)

Transportation incidents are of a significant concern in Dawson County and can happen anywhere in the County. The most heavily traveled roads and pass-through routes include US Highway 19, and Georgia Highways 9, 52, 53, 136, 183, and 400.







Transportation incidents can range significantly in severity from minor fender-benders to fatal crashes. Due to the high frequency of transportation incidents, all previous occurrences are not listed, but below shows annual summaries from 2017 to 2021.



Figure 3-49 Transportation map for Dawson County

3.2.12.3 Probability

Transportation incidents are one of the most commonly occurring hazards in Dawson County and nationwide. There is no sure way to predict future transportation incidents as most typically occur without warning. The probability of transportation incidents in Dawson County is extremely high (occurring every 1 year or more).

3.2.12.4 Impacts

Transportation incidents, ranging from vehicular accidents to hazardous material spills, can have profound impacts on both property and people. Collisions involving automobiles can result in property damage, vehicle destruction, road closures, and, most critically, injuries or loss of life for those involved. Loss of life from transportation incidents is common – 3 to 7 fatalities occurred annually in Dawson County between 2017 and 2021. Moreover, accidents involving the transportation of hazardous materials pose an additional layer of risk, potentially leading to environmental contamination, property destruction, and long-term health effects for nearby communities.







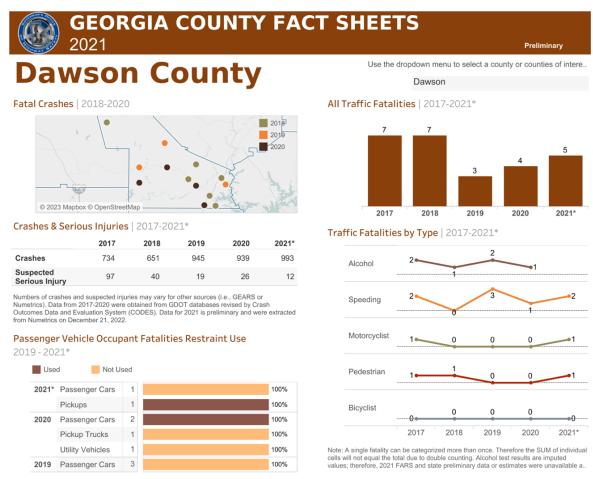


Figure 3-50 Dawson County traffic crash report (Source: Georgia Governor's Office of Highway Safety)

3.2.12.5 Impacts from Future Conditions

The greatest contributor to impacts from future changes is population change as an increase in overall population increases the likelihood and potential impact of a transportation incident.

3.2.12.6 Multi-Jurisdictional Considerations

Dawson County, as well as the City of Dawsonville, could potentially be impacted by a transportation incident. However, areas along the Georgia Highway 400 corridor are at the greatest risk for this type of incident.

3.2.12.7 Hazard Summary

The Dawson County HMPC has determined that transportation incidents pose a high risk to their jurisdictions due to the unpredictable nature and likelihood of the incident. As a result, the Dawson County HMPC has developed mitigation strategies and actions with transportation incidents in mind.







3.2.13. Technological Hazard: Terrorism

3.2.13.1 Hazard Description

The Federal Bureau of Investigation (FBI) defines terrorism as violent acts or acts dangerous to human life that violate federal or state law, appear to be intended to intimidate or coerce a civilian population, affect the conduct of a government by mass destruction, assassination, or kidnapping, and is calculated to influence or affect the conduct of a government by intimidation or retaliate against government conduct. Terrorism is usually referenced as being premeditated and politically motivated.

Terrorist acts are, by their very nature, designed and carried out with the intention of inflicting mass casualties and extensive property damage. When an act of terrorism is carried out in a jurisdiction, it will likely be necessary to implement multiple aspects of the emergency management system and summon additional resources from local, state, and federal partners.

Terrorism is generally divided into two types: domestic terrorism and international terrorism. Domestic terrorism is defined as terroristic acts focused on facilities and populations without foreign direction. International terrorism involves activities that are foreign-based and/or sponsored by organizations outside of the United States.

Terrorists often use threats to create fear among the public, to convince citizens that government is powerless to prevent terrorism and to get immediate publicity for their causes. Weapons of Mass Destruction (WMDs), including incendiary, explosive, chemical, biological, radiological and nuclear agents, have the capability to cause death or serious bodily injury to a significant number of people, thus posing the threat of a catastrophic incident. Terrorism can also include arson, agro-terrorism, armed attack, intentional hazardous materials release, water or food contamination, and attacks on infrastructure and electronic information systems.

3.2.13.2 Hazard Profile (Location, Extent, Previous Occurrences)

It is almost impossible to predict where and when a terrorist attack could occur. The specific motivations of terrorists dictate target selection; therefore, any location within the County has the potential to become a target of terrorism. Terrorism targets have historically been facilities that make a large economic or social impact on the targeted government or jurisdiction. In Dawson County, all critical facilities could be seen as potential targets. It is important to note that terrorism includes a multitude of potential approaches, including agro-terrorism, which is terrorism targeted toward agriculture, so due to the high economic impact of agriculture in Dawson County, agro-terrorism should also be of concern. Additionally, a terrorist contamination of Dawson County's water supply is of particular concern.

No previous occurrences of terrorism in Dawson County were noted.

3.2.13.3 Probability

It is almost impossible to predict where and when a terrorist attack could occur. The probability of a terrorist attack in Dawson County is unlikely (occurring every 50 years or less).

3.2.13.4 Impacts

The impacts of terrorism on Dawson County would be profound and multifaceted, extending beyond immediate physical harm to affect the fabric of the community. Acts of terrorism can







instill fear, anxiety, and a pervasive sense of insecurity among residents, eroding the social cohesion that defines a community. Beyond the human toll, there would likely be significant economic repercussions, with disruptions to local businesses, tourism, and overall economic stability. Infrastructure may be compromised, emergency response systems strained, and the long-term psychological effects on individuals and the collective community psyche could endure.

3.2.13.5 Impacts from Future Conditions

Population change can significantly affect the impacts of terrorism, with the scale of potential harm often tied to the density and composition of the population. In areas experiencing population growth, the potential consequences of terrorism may be more severe due to increased vulnerability and the higher concentration of people and infrastructure. Larger populations can result in more significant economic losses, disruptions to essential services, and a greater challenge in managing the aftermath of an attack. Additionally, diverse and growing populations may introduce complexities in communication, emergency response, and community resilience

3.2.13.6 Multi-Jurisdictional Considerations

All of Dawson County, including the City of Dawsonville, are vulnerable to potential acts of terrorism. However, critical facilities and their surrounding areas are considered to be at the greatest risk. Additionally, areas of tourism, such as Amicalola Falls State Park, are also at greater risk due to these areas being high visibility targets.

3.2.13.7 Hazard Summary

Terrorism, while a low-probability hazard, would have devastating effects on Dawson County and the City of Dawsonville. These impacts would be immediate and long- lasting and could be potentially economically crippling. Because of these considerations, the Dawson County HMPC has developed mitigation actions with terrorism in mind.

3.2.14. Technological Hazard: Communications Failure

3.2.14.1 Hazard Description

A communications failure refers to the breakdown or disruption in the transmission of information through various channels, including but not limited to, telecommunications networks, radio frequencies, internet services, and other means of conveying messages. This breakdown can occur due to technical issues, equipment malfunctions, natural disasters, cyberattacks, or other factors that impede the smooth flow of data and information. While a communications failure would most likely be a secondary hazard of one of the other hazards identified in this plan, a communications failure could be also be an independent incident. Communication failures can have significant consequences, particularly in emergency situations where timely and accurate information is crucial. It can affect public safety, disrupt essential services, and hinder coordination efforts among individuals, organizations, or governmental entities relying on effective communication channels.







A lack of communication with outside sources could lead to public panic, poor emergency response capabilities, and other cascading hazards. These events pose a significant threat to many jurisdictions.

3.2.14.2 Hazard Profile (Location, Extent, Previous Occurrences)

A communications failure can occur anywhere in Dawson County and would likely affect a significant portion of the County as opposed to a narrow, localized area. The severity of a communications failure can range from a minor outage on the magnitude of minutes or seconds to a county-wide outage ongoing for days to weeks.

3.2.14.3 Probability

Robust data is unavailable for Dawson County to analyze historical data of communications failure, but using subject matter expertise, the HMPC has evaluated the probability of a major communications failure incident as unlikely (occurring every 50 years or less).

Climate change may elevate the probability of communications failures through intensified and more frequent extreme weather events such as hurricanes, storms, and wildfires. These events can damage or disrupt critical communication infrastructure, including cell towers, power lines, and data centers, leading to widespread outages. Additionally increased flooding, attributed to climate change, can compromise the functionality of underground cables and other communication networks, further amplifying the vulnerability of communication systems to the impacts of a changing climate.

Further, population change can heighten the probability of communications failures as urbanization and increased population density place greater demand on existing communication infrastructure, leading to congestion and potential service disruptions. The expansion of communities and infrastructure can also make it more challenging to maintain and upgrade communication networks efficiently, increasing the risk of failures due to aging or inadequate systems.

3.2.14.4 Impacts

In case of any failure of a communications infrastructure, general communication difficulties would be exacerbated for both emergency responders and for the general public. The reliance on wireless communications, particularly for the public safety sector, increases the impacts felt by Dawson County's emergency response agencies to a communications failure.

A communications failure in Dawson County could result in critical delays in emergency response efforts, hindering the coordination of first responders and increasing the risk of harm during disasters. Essential services, including public safety announcements, healthcare communication, and utilities coordination, may be severely compromised, impacting the well-being of the community. Additionally, disruptions in communication could impede the dissemination of vital information during extreme weather events, leaving residents uninformed and vulnerable to potential risks.







3.2.14.5 Impacts from Future Conditions

In the context of climate change, a communications failure in Dawson County may become more frequent and severe due to the increased frequency and intensity of extreme weather events. Rising temperatures, more intense storms, and other climate-related factors could lead to a higher likelihood of damage to communication infrastructure, exacerbating the challenges in emergency response coordination and public communication during crises. Population growth further compounds these challenges as expanding communities place additional stress on communication networks, potentially leading to increased congestion, slower response times, and difficulties in maintaining and upgrading infrastructure to keep pace with the growing demand. The combination of climate change and population growth heightens the vulnerability of Dawson County to the impacts of communications failures, emphasizing the need for adaptive strategies and resilient infrastructure planning.

3.2.14.6 Multi-Jurisdictional Considerations

Dawson County, as well as the City of Dawsonville, could potentially be impacted by a communications failure. However, areas of greatest population density, such as the City of Dawsonville and areas along the Georgia Highway 400 corridor, are at greatest risk.

3.2.14.7 Hazard Summary

The Dawson County HMPC has determined that communications failures pose a high risk to their jurisdictions due to the unpredictable nature of the incident. As a result, the Dawson County HMPC has developed mitigation strategies and actions with communications failures in mind.

3.2.15. Technological Hazard: Emergent Infectious Diseases 3.2.15.1 Hazard Description

Microorganisms, such as bacteria, viruses, parasites, fungi, or prions, surround us within the environment. They can even be found within our own bodies. Most microorganisms are completely harmless, and many are beneficial. However, some of these organisms are pathogenic, meaning they cause or can cause disease. Infectious diseases are caused by these pathogenic organisms and are communicable – meaning they can be spread from person to person either directly or indirectly. Direct transmission of the disease occurs through actual physical contact with an infected person or their bodily fluids. Indirect transmission of a disease occurs when an infected person contaminates a surface by sneezing, coughing, etc., and a non-infected person encounters that infected surface. Another means of indirect transmission includes vectors, such as mosquitos, flies, mites, ticks, fleas, rodents, or dogs, which may carry the pathogenic microorganism and transmit it to people via a bite. Infectious diseases can also impact animal populations, particularly livestock and other farm animals. Even though these diseases may not directly affect humans, the economic impact of these diseases can be just as harmful, if not more so, to the community.

Infectious diseases can occur as primary events or they may occur as a cascading result of another disaster, such as a tornado, flood, or winter weather. Infectious diseases can vary greatly in severity and magnitude. According to the World Health Organization, infectious diseases account for three of the ten leading causes of death worldwide – HIV/AIDS, lower







respiratory infections, and diarrheal disease. These three events, combined with tuberculosis and malaria, account for 20% of deaths globally.

In Western countries, the impact of infectious diseases has diminished greatly over the last 75 years due to improved sanitation, personal hygiene, vaccinations, and the use of antibiotics. In the United States, only two infectious diseases – seasonal influenza and pneumonia – rank in the top ten leading causes of death. Annually, there are 1,500 deaths in the United States from seasonal influenza and another 52,000 from pneumonia. Children and older adults are the greatest at risk for both.

Emergent infectious diseases are those that are appearing in a population for the first time. Reemergent infectious diseases are those that may have previously existed in a population, but levels had dropped to the point where it was no longer considered a public health problem until levels once again began increasing.

During the last 25 years, emergent and re-emergent infectious diseases have been on the rise.

Table 3.1 Select contributing factors to the rise of emergent and re-emergent diseases

Contributing Factors to Increasing Occurrence of Emergent Diseases
Agent-Related Factors
Evolution of pathogenic infectious agents
Development of resistance to drugs
Resistance of disease carriers to pesticides
Host-Related Factors
Human demographic changes (humans inhabiting new areas) Human behavior (sexual practices and drug use) Human susceptibility to infection
Environment-Related Factors
Economic development and land use patterns
International travel and commerce
Deterioration of surveillance systems

Due to a lack of ready-made vaccines for these diseases and a lack of immunity in the population, emergent and re-emergent infectious diseases are much more likely to escalate to pandemic levels rapidly.

3.2.15.2 Hazard Profile (Location, Extent, Previous Occurrences)

The entire county could be affected by emergent infectious diseases, which is exemplified through previous occurrences.

Looking at occurrences with cases local to Dawson County, in 2009, the Central Georgia area was impacted by the 2009-2010 H1N1 Swine Flu. There were 1286 cases of H1N1 in Georgia in 2009-2010 and 33 deaths. The majority of registered cases occurred with people between the ages of 5 and 29. This equates to a mortality rate of just over 2.5% - which is slightly lower than the 3% rate of the 1918-1919 Spanish Flu Pandemic.







In 2020, the COVID-19 Pandemic impacted the entire world and caused a variety of public health protocols to be implements state-wide. In 2020, Dawson County had over 1,700 cases and there were over 575,000 cases statewide. By the end of 2021, there were over 1.4 million cases statewide and over 4,500 cases in Dawson County since the beginning of the pandemic. Vaccines were made available at the end of 2020. On May 11, 2023, the Public Health Emergency declaration for COVID-19 expired, but there are still COVID-19 cases.

In 2022, an Mpox outbreak occurred in the United States. There were over 30,000 cases nationwide with 2,000 cases and 54 deaths in Georgia as of October 2023. Mpox vaccines are available to prevent infection.

Over the last 25 years, emergent infectious disease outbreaks have occurred in other parts of the country. These include:

- 1993 Cryptosporidium Outbreak (Milwaukee, Wisconsin 403,000 people ill and 100 deaths)
- 2010 Whooping Cough Outbreak (California 9,500 people ill and 10 infant deaths)
- 2014 Measles (Nationwide 334 cases from January to May 2014 most in 20 years)
- 2015 H5N2 Avian Flu Outbreak (Midwest over 25 million chickens and turkeys destroyed as a precautionary measure at 83 locations)
- 2016 Zika Virus Disease (224 Cases Florida and Texas of patients that acquired the disease locally)

3.2.15.3 Probability

It is probable that a human health incident will occur in Dawson County in the future. Common human health incidents, like the flu, occur annually and may be perceived as a lower risk by the general population. Outbreaks, like COVID-19, are less frequent, but can have greater impacts to the County.

The probability of this hazard was determined to be likely (occurring every 5 to 20 years). The probability of emergent infectious diseases would increase with continued population growth, especially in densely populated areas.

3.2.15.4 Impacts

The impacts of emergent infectious diseases on Dawson County can be far-reaching and multifaceted. The community's health infrastructure may face substantial challenges in terms of disease surveillance, testing, and healthcare delivery during outbreaks. The potential for increased strain on local healthcare facilities, disruptions to essential services, and economic repercussions due to containment measures and reduced productivity may be significant. Furthermore, emergent infectious diseases can impact social dynamics, affecting community interactions, education, and overall well-being.

Dawson County would also likely see significant economic impacts from an outbreak involving animal populations, such as an Avian Flu, due to the large economic base agriculture provides (over \$50 million in annual sales). The lack of current vaccines and preparatory activities for these diseases has created a situation where the potential impact to Dawson County of a pandemic or epidemic could be catastrophic.







3.2.15.5 Impacts from Future Conditions

With the influence of climate change, the impacts of emergent infectious diseases on Dawson County may intensify. Altered climate patterns can affect the distribution of disease vectors, expand the geographic range of certain illnesses, and contribute to the emergence of new infectious agents. Climate-related factors such as extreme weather events and changing ecological conditions may also disrupt local health systems, making communities more vulnerable to the spread of diseases. Additionally, population growth can exacerbate these impacts, placing greater pressure on healthcare infrastructure, public services, and community resilience. The increased density of populations may facilitate the rapid transmission of infectious diseases, while urbanization and demographic changes may influence the effectiveness of public health interventions. In the context of climate change and population growth, adaptive strategies, robust healthcare systems, and community engagement become even more crucial to mitigate the evolving challenges posed by emergent infectious diseases in Dawson County.

3.2.15.6 Multi-Jurisdictional Considerations

Dawson County, as well as the City of Dawsonville, are vulnerable to emergent infectious diseases. However, places of greater population density, such as the City of Dawsonville and areas along the Georgia Highway 400 corridor, are at greatest risk to this hazard. Additionally, livestock and other farm animals are at greater risk, along with areas with large, concentrated populations, such as schools.

3.2.15.7 Hazard Summary

An emergent infectious disease would have devastating effects on Dawson County and the City of Dawsonville. These impacts would be immediate and long-lasting and could be potentially economically crippling. Of particular concern to the Dawson County HMPC is impacts to Dawson County's large agricultural business population (over \$50 million in annual sales). Because of these considerations, the Dawson County HMPC has developed mitigation actions with emergent infectious diseases in mind.

3.2.16. Technological Hazard: Cyberattack

3.2.16.1 Hazard Description

According to the National Institute of Standards and Technology, a cyberattack is an online attack that is meant to disrupt, disable, destroy, or maliciously control an organization's computing environment/infrastructure or destroying the integrity of the data or stealing controlled information. These attacks can hold organizations hostage for hours or sometimes days or months. The people who are behind these attacks often want financial compensation to release the organization's online infrastructure. These attacks can cost organizations both public and private millions of dollars to recover if targeted.

There are a variety of different types of attacks. Organizations should be aware of malware, phishing, and ransomware. Malware is when software is used to get access to an organizations IT system to steal information, disrupt services, or damage the IT networks. Ransomware is a kind of malware that allows the attacker to hold specific information hostage until a form of payment or ransom is provided. Phishing happens when a user is encouraged to share private







information online using misleading tactics. It is important for organizations to put in protocols to prevent being victims of a cyberattack.

3.2.16.2 Hazard Profile (Location, Extent, Previous Occurrences)

All systems that are online could be a victim of a cyberattack. If a government organization relies on online systems, then they are at risk for a cyberattack. All online document management or transactions are at risk. The severity of cyberattacks can vary widely, ranging from minor incidents like phishing or malware infections to highly sophisticated and destructive campaigns such as nation-state-sponsored attacks targeting critical infrastructure. Factors influencing severity include the attacker's capabilities, the vulnerabilities of the targeted systems, and the potential impact on financial, operational, or national security aspects.

In April 2018, the Dawson County Government was the victim of a cyberattack. The Dawson County Government was the victim of a ransomware attack and government employees were unable to conduct key duties of their jobs. The attack was first noticed when certain employees were unable to save changes to their working files on their computers. As soon as other government offices noticed issues, the IT department began to shut down servers to avoid the issue from spreading. Several components of the County's IT systems were impacted including the exchange server, and phone and internet services were taken offline. A cybersecurity company was called in to assist the County with the issues and services were eventually restored. Up until this point, the County had cyberattack insurance but did not have an emergency plan in place for ransomware.

Just one month prior, the City of Atlanta was the victim of a cyberattack. The City of Atlanta was the victim of a ransomware attack and several of the City's government departments were unable to conduct work on computers. Everything from paying traffic tickets to water bills online and even the free Wi-Fi at the airport were shut down. The attackers wanted \$50,000 in cryptocurrency to release the City's data. The two men who were behind the attack were prosecuted, but the City ultimately paid millions of dollars to get the city back to normal.

3.2.16.3 Probability

As technology advances and industries become more reliant on technology-based infrastructure, the probability of cyber incidents occurring increases every day. It is estimated that every 11 seconds, a business falls victim to a ransomware attack and it is predicted that attacks will cost up to \$20 billion annually. This statistic has changed dramatically since 2016, which estimated a ransomware attack occurred every 40 seconds. In 2020, government was among the top three most cyber attacked industries, increasing from the top five in 2015. The probability of a cyberattack in Dawson County is highly likely (occurring every 1 to 5 years).

3.2.16.4 Impacts

A cyberattack on Dawson County could have significant and multifaceted impacts. At a basic level, it might result in disruptions to local government services, including communication systems and administrative functions. More severe consequences could involve the compromise of sensitive data, potentially exposing residents' personal information, leading to identity theft or financial fraud. In the worst-case scenario, a sophisticated cyberattack could cripple critical infrastructure, disrupt emergency services, and have cascading effects on public safety, economic stability, and the overall well-being of the community.







3.2.16.5 Impacts from Future Conditions

There are no impacts from future conditions that are specific to a cyberattack.

3.2.16.6 Multi-Jurisdictional Considerations

The City of Dawsonville also conducts many processes online. It is important that both the County and the City have protocols in place to be ready for a cyberattack.

3.2.16.7 Hazard Summary

Cyberattacks are a hazard that can shut down online functions of an organization. They can cause organizations to be shut down for days and sometimes longer. These attacks can cost millions of dollars to fix. It is important for protocols to be in place to prevent these attacks from happening.

3.2.17. Human Caused Hazard: Active Threat/Shooter

3.2.17.1 Hazard Description

The FBI defines an active shooter as one or more individuals actively engaged in killing or attempting to kill people in a populated area. Implicit in this definition is the shooter's use of a firearm. The "active" aspect of the definition inherently implies the ongoing nature of an incident, and thus the potential for the response to affect the outcome. Two types of shootings include school shootings and mass shootings.

School shootings are incidents in which a student at an educational institution shoots and injures or kills at least one other student or faculty member on the grounds of the institution. There have been accounts of rampage school shootings when no single or specific individual is targeted by the shooter. Rampage school shootings involve students who attend (or formerly attended) the school where the attack takes place; occurring on a school-related "public stage"; and involving multiple victims, at least some shot at random or as a symbol.

Mass shootings are defined when the incident occurs in relatively public places, that involve four or more deaths, not including the shooter, and gunmen who select victims somewhat indiscriminately. The violence in these cases is not a means to an end. This means the gunmen does not pursue criminal profit or kill in the name of terrorist ideologies.

The Georgia Emergency Management and Homeland Security Agency says that because these situations are usually over before law enforcement arrive, it is important for individuals to prepare for these events. They recommend that individuals should sign up for active shooter training and if they see something they should report it to the appropriate authorities. They should also plan with their families for these situations. They also say if individuals find themselves in this situation they should run and escapes if they can, hide if they can't escape, or fight as an absolute last resort.

3.2.17.2 Hazard Profile (Location, Extent, Previous Occurrences)

Active shooter incidents are possible anywhere in the County, but densely populated or high-profile areas, like government buildings, schools, and public spaces, are typically targeted. The severity of active threats can vary widely, ranging from relatively contained incidents with limited







impact to highly dangerous situations involving multiple assailants and high-powered weapons, resulting in significant harm and casualties. Factors such as the assailant's intent, weaponry, tactics, and the effectiveness of law enforcement responses play crucial roles in determining the severity of an active threat. There are no records of active threat/shooter situations in Dawson County.

3.2.17.3 Probability

There is no sure way to predict future active threats, as most typically occur without warning. The probability of an active shooter/threat incident in Dawson County is somewhat likely (occurring every 20 to 50 years).

3.2.17.4 Impacts

The impacts of active shooter incidents are profound and far-reaching, extending beyond the immediate physical harm to individuals and encompassing broader consequences for communities. The emotional and psychological toll on survivors, witnesses, and the affected community can be long-lasting, leading to post-traumatic stress, anxiety, and a sense of insecurity. Beyond the human cost, these incidents can result in economic repercussions, with businesses and local economies suffering due to temporary closures, decreased consumer confidence, and potential long-term effects on the local workforce. Furthermore, active shooter incidents prompt a reevaluation of security measures, both in public and private spaces, necessitating investments in enhanced safety protocols, emergency response training, and community support systems.

3.2.17.5 Impacts from Future Conditions

Population growth can potentially impact the probability of active shooter incidents in various ways. As populations expand, the density of people in public spaces increases, potentially providing more targets for individuals with malicious intent. Larger populations may also lead to higher levels of stress, competition, or societal challenges, which can contribute to the factors influencing violent behavior. Additionally, in densely populated areas, there may be increased anonymity, making it easier for potential perpetrators to plan and execute such incidents without immediate detection. However, it's important to note that the relationship between population growth and the probability of active shooter incidents is complex, and multiple factors, including societal, economic, and mental health considerations, contribute to the overall risk.

3.2.17.6 Multi-Jurisdictional Considerations

Heavily populated areas are more likely to see an active threat/shooter situation to unfold. It is important that this is considered in the City of Dawsonville as it is the most populated area of the County.

3.2.17.7 Hazard Summary

Active threats/shooters are dangerous situations that can escalate quickly. They involve one or more people with a firearm who are killing to attempting to kill people in an area. These situations are often over before law enforcement can arrive. It is important for communities to be prepared to respond to these situations and to prepare community members if they find themselves in these situations.







3.3. Vulnerability Assessment

The goal of profiling the location, extent, previous occurrences, probability, and impacts of each of the above hazards is to be able to summarize the vulnerabilities of Dawson County, including the City of Dawsonville, so the planning team can develop a strategy to increase the County's resiliency. The below tables rank the natural hazards relevant to Dawson County with higher ranks denoting higher vulnerability. The summary tables are broken into two categories: threats to buildings and threats to people. The County's vulnerability to each hazard is determined by the annual expected loss ratio, which is the product of the annualized frequency and the historic loss ratio. The annualized frequency component gauges the recurrence rate of each hazard, providing insights into its likelihood of occurrence per year – these values are determined based on the "Probability" sections for each hazard included above. Concurrently, the historic loss ratio quantifies the magnitude of past damages inflicted by each hazard (on people and buildings), serving as a metric of severity, these values are provided by FEMA through its National Risk Index database. After ranking the vulnerabilities by annual expected loss ratio, each hazard was also marked to indicate whether the vulnerability is expected to increase based on climate change (based on the "Impacts from Future Conditions" sections above).

Table 3.2 Vulnerability assessment (to buildings) for natural hazards for Dawson County

Threat to Buildings					
Annualized Frequency Histo		Historic Loss R	atio	Annual Expected Lo	ss Ratio
Hazard	Rank	Hazard	Rank	Hazard	Rank
Thunderstorm	1	Wildfire	1	Tornado	1
Drought	2	Earthquake	2	Flooding	2
Extreme Heat	3	Tornado	3	Thunderstorm	3
Extreme Cold	4	Flooding	4	Wildfire	4
Tornado	5	Hurricane	5	Earthquake	5
Winter Weather	6	Ice Storm	6	Ice Storm	6
Ice Storm	7	Thunderstorm	7	Extreme Heat	7
Flooding	8	Extreme Cold	8	Hurricane	8
Hurricane	9	Extreme Heat	9	Extreme Cold	9
Earthquake	10	Winter Weather	10	Winter Weather	10
Wildfire	11	Drought	11	Drought	11

Table 3.3 Vulnerability assessment (to people) for natural hazards for Dawson County

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Threat to People					
Annualized Frequency		Historic Loss Ratio		Annual Expected Loss Ratio	
Hazard	Rank	Hazard	Hazard Rank		Rank
Thunderstorm	1	Tornado	1	Tornado	1
Drought	2	Earthquake	2	Extreme Heat	2
Extreme Heat	3	Wildfire	3	Extreme Cold	3
Extreme Cold	4	Flooding	4	Flooding	4
Tornado	5	Extreme Heat	5	Thunderstorm	5







Winter Weather	6	Extreme Cold	6	Winter Weather	6
Ice Storm	7	Thunderstorm	7	Earthquake	7
Flooding	8	Winter Weather	8	Ice Storm	8
Hurricane	9	Hurricane	9	Wildfire	9
Earthquake	10	Ice Storm	10	Hurricane	10
Wildfire	11	Drought	11	Drought	11

Table 3.4 Certainty of future increased risk (against buildings) from climate change for natural hazards

Threat to Buildings				
Annual Expected Los	Future Increased Risk?			
Hazard	Rank	Certainty		
Tornado	1	Unknown		
Flooding	2	Likely		
Thunderstorm	3	Unknown		
Wildfire	4	Likely		
Earthquake	5	Unlikely		
Ice Storm	6	Unknown		
Extreme Heat	7	Likely, Severe		
Hurricane	8	Likely		
Extreme Cold	9	Unlikely		
Winter Weather	10	Unknown		
Drought	11	Likely		

Table 3.5 Certainty of future increased risk (against people) from climate change for natural hazards

Threat to People				
Annual Expected Loss	Future Increased Risk?			
Hazard	Rank	Certainty		
Tornado	1	Unknown		
Extreme Heat	2	Likely, Severe		
Extreme Cold	3	Unlikely		
Flooding	4	Likely		
Thunderstorm	5	Unknown		
Winter Weather	6	Unknown		
Earthquake	7	Unlikely		
Ice Storm	8	Unknown		
Wildfire	9	Likely		
Hurricane	10	Likely		
Drought	11	Likely		







Chapter 4. Hazard Mitigation Strategies

4.1. Summary of Updates to Chapter Four

The following table provides a description of each section of this chapter and a summary of the changes made to the Dawson County Hazard Mitigation Plan 2018.

Chapter 4 Section	Updates
Goals and Objectives	Updated goals to match the needs of Dawson County and the City of Dawsonville
Identification and Analysis of Mitigation Techniques	 Mitigation Actions have been updated Chart of complete and deleted mitigation actions has been updated
Multi-Jurisdictional Considerations	Addition of hurricanes, winter storms, and cybersecurity concerns (not included in 2018 Plan)

4.2. Goals and Objectives

It is essential that State and local government, public-private partnerships, and the average citizen can see the results of these mitigation efforts. Therefore, the goals and strategies need to be achievable. The mitigation goals and objectives form the basis for developing specific mitigation actions. County and municipal officials should consider the listed goals before making community policies, public investment programs, economic development programs, or community development decisions for their communities. Due to the recent occurrence of natural hazards and the significant damage they have caused, mitigation strategies have become a top priority. There is now more focus on developing new strategies to prevent these events from happening and to minimize their impact when they do occur.

The Dawson County Hazard Mitigation Plan update covers two jurisdictions: Dawson County and the City of Dawsonville. However, these jurisdictions have limited capacity to implement all the mitigation actions described in the plan. This is because these jurisdictions are small in population and tax base, making raising sufficient revenue to pursue many actions difficult. Also, there is a lack of financial strength and staffing to implement all the actions described in the plan. To achieve the goals outlined in the plan, many actions will be pursued through grant programs and by collaborating with public and private organizations that can provide additional resources. For actions where grant funding or partnerships are unavailable, Dawson County or municipality revenue streams may be supplemented through Special Purpose Local Option Sales Tax (SPLOST) funds, voted on by the electorate.

- **GOAL 1:** Maximize the use of all resources by promoting intergovernmental coordination and partnerships in the public and private sectors.
- **GOAL 2:** Harden community assets against the impacts of disasters by developing new mitigation strategies and enforcing current regulations.







GOAL 3: Minimize loss of life and property damage from disasters, especially for repetitive damaged properties.

GOAL 4: Increase community awareness about potential hazards and the need for preparedness.

These objectives outline specific outcomes that Dawson County aims to achieve over the next five years. Action steps are the necessary steps to reach these objectives. The objectives are not listed in order of importance.

OBJECTIVE 1: Our first objective is to reduce loss of life, damage to property, and minimize impacts on local citizens, industry, and infrastructure from identified hazards.

OBJECTIVE 2: We aim to provide advanced severe weather warnings to help citizens take precautionary measures and stay safe.

OBJECTIVE 3: Our third objective is to provide educational awareness to citizens about the dangers and impacts of the identified hazards.

OBJECTIVE 4: We will implement initiatives to protect our water resources and provide wildfire protection.

OBJECTIVE 5: We aim to increase the capacity of Dawson County, the City of Dawsonville, Etowah Water and Sewer, Dawson County Schools, and its citizens to respond to identified hazards.

OBJECTIVE 6: We will ensure continuity of critical operations before, during, and after hazard events.

OBJECTIVE 7: We will evaluate and implement additional protective measures and capabilities in response to identified hazards, wherever possible.

4.3. Identification and Analysis of Mitigation Techniques

In updating Dawson County's mitigation strategy, various activities were considered to help achieve the mitigation goals and objectives. This includes the following activities as defined by the Emergency Management Accreditation Program (EMAP):

- 1. The use of applicable building construction standards;
- 2. Hazard avoidance through appropriate land-use practices;
- 3. Relocation, retrofitting, or removal of structures at risk;
- 4. Removal or elimination of the hazard;
- 5. Reduction or limitation of the amount or size of the hazard;
- 6. Segregation of the hazard from that which is to be protected;
- 7. Modification of the basic characteristics of the hazard:
- 8. Control of the rate of release of the hazard;
- 9. Provision of protective systems or equipment for both cyber or physical risks;







- 10. Establishment of hazard warning and communication procedures; and
- 11. Redundancy or duplication of essential personnel, critical systems, equipment, and information materials.

As part of our prioritization process, we assess each item according to the STAPLEE criteria, which stands for Social, Technical, Administrative, Political, Legal, Economic, and Environmental factors. Based on this assessment, we designate each item as High, Medium, or Low priority. For items that require grant funding, we conduct a thorough Cost-Benefit Analysis to determine their actual cost-effectiveness. This analysis informs the grant research and application process.

Strategic Priority	Priority Description	Strategies within this Priority
LOW	Low-priority strategies are those strategies that will have less direct impact on mitigating Dawson County's hazards, are in the early stages of strategy development, or score poorly on a preliminary cost-benefit analysis	1.c; 1.d; 2.f; 5.i; 5.r
MEDIUM	Medium-priority strategies directly mitigate Dawson County's hazards but have less impact than high-priority strategies. They may be in the early stages of development or score lower on a cost-benefit analysis.	1h; 1.i; 1.j; 1.k; 1.l; 1.m; 1.n; 1.o; 1.q; 1.s; 2.b; 2.e; 2.g; 3.a; 3.b; 3.c; 3.d; 3.g; 3.h; 3.k; 3.l; 3.m; 4.a; 4.b; 4.d; 4.f; 4.g; 4.h; 4.i; 5.b; 5.c; 5.d; 5.e; 5.f; 5.g; 5.h; 5.j; 5.k; 5.l; 5.o; 7.a
HIGH	High-priority strategies refer to those strategies that can significantly mitigate the hazards faced by Dawson County. These strategies are usually the most crucial needs of the county and/or the City of Dawsonville. Moreover, they have scored high on a preliminary cost-benefit analysis, making them an essential part of the mitigation plan.	1.a; 1.b; 1.e; 1.f; 1.g; 1.p; 1.s; 2.a; 2.c; 2.d; 2.h; 3.e; 3.f; 3.i; 3.j; 4.c; 4.e; 4.j; 5.a; 5.m; 5.n; 5.p; 5.q; 6.a; 6.b; 6.c; 6.d; 6.e; 7.b

The lead agency listed in the Mitigation Strategy charts will be responsible for the jurisdictional administration and prioritization of the mitigation strategy. Prioritization was determined based on many factors. These include the likelihood of the event, the potential impact of the event, the current readiness posture of Dawson County for the event, the all-hazard impact of the mitigation strategy, and a cost-benefit analysis for the mitigation action. For example, mitigation actions that address high-likelihood, high-impact events with a low cost would rate higher than low-low-likelihood, high-impact events with a high cost.

All mitigation strategies considered by the Dawson County Hazard Mitigation Plan Update Committee can be classified under one of the following six (6) broad categories of mitigation techniques:







4.3.1. Prevention

Preventative activities are aimed at preventing hazardous issues from exacerbating and are generally implemented through government-run programs or regulatory measures that impact the way land is utilized and buildings are constructed. They are particularly effective in decreasing a community's future vulnerability, especially in areas where development hasn't taken place or capital investments haven't been significant. The updated plan outlines various examples of preventative activities, which are listed in the table below:

Natural Hazards	Mitigation Strategies
Drought	4.c; 4.d
Earthquake	6.a
Extreme Temperatures	4.d
Flood	1.a; 1.b; 1.c; 1.d; 1.e; 1.f; 1.g; 1.h; 1.i; 6.a
Thunderstorms	1.a; 1.i; 6.a
Tornadoes	1.o; 6.a
Tropical Cyclone	1.a; 1.i; 1.o; 6.a
Wildfire	4.c; 6.a
Winter Storms	6.a
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	
Cyberattack	6.e
Communications Failure	
Dam Failure	1.r; 1.s
Emergent Inf. Disease	7.a
Hazardous Materials	7.a
Terrorism	1.r; 1.s; 7.a
Transportation	7.a







4.3.2. Property Protection

The process of safeguarding properties involves making changes to existing buildings and structures to make them more resilient against various hazards. This may also involve relocating the structures from hazardous areas altogether. The updated plan includes a list of examples of property protection measures, which are listed in the table below:

Natural Hazards	Mitigation Strategies
Drought	
Earthquake	
Extreme Temperatures	
Flood	
Thunderstorms	1.m; 1.p; 1.q
Tornadoes	1.m; 1.p; 1.q
Tropical Cyclone	1.p; 1.q
Wildfire	
Winter Storms	
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	
Cyberattack	
Communications Failure	
Dam Failure	
Emergent Inf. Disease	
Hazardous Materials	
Terrorism	
Transportation	







4.3.3. Natural Resource Protection

Natural resource protection activities aim to mitigate the impact of natural hazards by preserving or restoring natural areas such as floodplains, wetlands, steep slopes, and sand dunes, along with their protective functions. These protective measures are often implemented by parks, recreation, or conservation agencies and organizations. The updated plan includes several examples of natural resource protection, which are listed in the following table:

Natural Hazards	Mitigation Strategies
Drought	
Earthquake	4.b
Extreme Temperatures	
Flood	
Thunderstorms	4.b
Tornadoes	4.b
Tropical Cyclone	4.b
Wildfire	4.b
Winter Storms	4.b
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	
Cyberattack	
Communications Failure	
Dam Failure	
Emergent Inf. Disease	
Hazardous Materials	
Terrorism	
Transportation	







4.3.4. Structural Projects

Structural mitigation projects aim to reduce the impact of a hazard by altering the natural progression of the environmental hazard event through construction. These projects are typically designed by engineers and managed or maintained by public works staff. The following table contains examples of structural projects included in the updated plan:

Natural Hazards	Mitigation Strategies
Drought	4.j; 5.l; 6.c; 6.d
Earthquake	5.j; 5.k; 5.l; 6.c; 6.d
Extreme Temperatures	5.I
Flood	1.j; 1.k; 1.l; 4.j
Thunderstorms	1.j; 1.k; 1.l; 1.n; 5.j; 5.k; 5.j; 6.d
Tornadoes	1.n; 5.j; 5.k; 5.l; 6.c; 6.d
Tropical Cyclone	1.j; 1.k; 1.l; 1.n; 5.j; 5.k; 5.l
Wildfire	4.j; 5.j;5.k; 5.l; 6.c; 6.d
Winter Storms	5.k; 5.k; 5.l
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	
Cyberattack	
Communications Failure	
Dam Failure	
Emergent Inf. Disease	
Hazardous Materials	
Terrorism	
Transportation	







4.3.5. Emergency Services

While emergency services are not usually regarded as a mitigation technique, they can still reduce the impact of a hazardous event on individuals and property. These services are usually implemented just before, during, or after the occurrence of a hazardous event. The updated plan includes a list of emergency services, which are mentioned in the table below:

Natural Hazards	Mitigation Strategies
Drought	4.e; 4.f; 5.b; 5.m; 5.r
Earthquake	5.a; 5.b; 5.d; 5.e; 5.f; 5.g; 5.h; 5.m;
Laitiiquake	5.n; 5.o; 5.r
Extreme Temperatures	4.e; 5.b; 5.e; 5.f; 5.g; 5.h; 5.m; 5.p;
	5.r
Flood	5.b; 5.c; 5.d; 5.e; 5.i; 5.m; 5.n; 5.o; 5.r
	2.a; 2.b; 2.c; 2.d; 2.e; 2.f; 2.g; 2.h;
Thunderstorms	5.a; 5.b; 5.c; 5.d; 5.e; 5.f; 5.g; 5.h;
	5.i; 5.m; 5.n; 5.o; 5.r; 6.b
Tornadasa	2.a; 2.b; 2.e; 2.g; 2.h; 5.a; 5.b; 5.c;
Tornadoes	5.d; 5.e; 5.f; 5.g; 5.h; 5.i; 5.m; 5.n; 5.o; 5.r; 6.b
	2.c; 2.d; 2.f; 2.g; 2.h; 5.a; 5.b; 5.c;
Tropical Cyclone	5.e; 5.i; 5.m; 5.n; 5.o; 5.r
14C1 IC	2.h; 4.g; 4.h; 4.i; 5.a; 5.b; 5.d; 5.i;
Wildfire	5.m; 5.n; 5.o; 5.r
	2.a; 2.e; 2.f; 2.g; 2.h; 5.a; 5.b; 5.d;
Winter Storms	5.e; 5.f; 5.g; 5.h; 5.i; 5.m; 5.n; 5.o;
	5.p; 5.r
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	5.q
Cyberattack	
Communications Failure	
Dam Failure	
Emergent Inf. Disease	3.j; 7.b
Hazardous Materials	3.j; 7.b
Terrorism	3.j; 7.b
Transportation	7.b







4.3.6. Public Education and Awareness

The updated plan utilizes public education and awareness activities to inform various groups of people, including residents, elected officials, business owners, potential property buyers, and visitors, about potential hazards, hazardous areas, and techniques they can use to mitigate the risks and protect themselves and their property. The plan includes a list of examples of public education and awareness strategies in the following table:

Natural Hazards	Mitigation Strategies
Drought	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h; 4.a
Earthquake	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h
Extreme Temperatures	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h; 3.l
Flood	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h
Thunderstorms	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h
Tornadoes	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.g; 3.h
Tropical Cyclone	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h
Wildfire	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h; 4.a
Winter Storms	3.a; 3.b; 3.c; 3.d; 3.e; 3.f; 3.h
Technological Hazards	Mitigation Strategies
Active Threat/Shooter	3.k
Cyberattack	3.k; 3.m
Communications Failure	3.k
Dam Failure	3.k
Emergent Inf. Disease	3.k
Hazardous Materials	3.i; 3.k
Terrorism	3.i; 3.k
Transportation	3.i; 3.k

4.3.7. Overall

Mitigation Technique	Percentage
Prevention	22.7%
Property Protection	4.0%
Natural Resource Protection	1.3%
Structural Projects	13.3%
Emergency Services	41.3%
Public Education and Awareness	17.3%







4.3.8. Completed Strategies

Previous Strategy #	Strategy Description	Status
5.i	Purchase ATV for wildland firefighting and search and rescue operations	COMPLETE
6.1	Purchase two electronic signs	COMPLETE
6.r	Purchase a wheeled loader to move tree debris	COMPLETE
7.e	Provide additional interconnection points between the Forsyth County and Etowah Water and Sewer Authority water systems	COMPLETE
8.c	Purchase a snowplow for the front of trucks	The City of Dawsonville - COMPLETE
8.d	Purchase 4- wheel drive for staff vehicles during winter weather hazardous weather response	COMPLETE
10.e	Develop a plan for a short-term contamination of the raw water supply	COMPLETE







4.3.9. Deleted Strategies

Previous Strategy #	Strategy Description	Reason
2.e	Build a safe room in new EOC building that is available to the public	Strategy is no longer a priority
2 .g	Consider an ordinance that requires all new construction to include a safe room	Strategy is no longer a priority
2.h	Build a storm shelter as part of any large (50+ residences) residential communities, particularly if locations include slab homes	Strategy is no longer a priority
2.i	Build safe rooms at local fire stations and police stations	Strategy is no longer a priority
3.c	Install outdoor warning siren at Paradise Valley Resort	Strategy removed due to being duplicated in 3.a
3.e	Install lighting detection systems in other areas where large crowds gather for outdoor events	Combined with 3.d
4.g	Promote severe weather awareness to clients of North Georgia Assisted Living Facility	Strategy removed due to rephrasing of other strategies
4.h	Promote severe weather awareness to client of Senior Center	Strategy removed due to rephrasing of other strategies
4. i	Promote severe weather awareness to clients of DFCS	Strategy removed due to rephrasing of other strategies
5.g	Purchase barricades for points of dispensing traffic flow, evacuations, and other activation	Strategy is no longer a priority
6.b Equip chainsaw strike team with chainsaws necessary for debris removal assistance		Strategy is a duplicate







6.e	Purchase the most updated landline phone list from Windstream every 2-3 years	Strategy is no longer a priority or relevant
6.j	Purchase portable cooking shelters and portable shower	Strategy is no longer a priority
6.t	Purchase a Mobile Command Vehicle	Strategy is no longer a priority
6.u	Equip Mobile Command Vehicle	Strategy is no longer a priority
7.c	Cross train staff across multiple departments to serve in emergency related positions that would be outside their normal job functions	Strategy is no longer a priority
8.a	8.a Purchase a brine truck 8.b Purchase spreaders for salt/brine 10.b Train a Hazmat Response Tam to Technician Level	
8.b		
10.b		
10.c	Equip a HazMat Response Team	Strategy is no longer a priority







4.3.10. 2024 Mitigation Actions

ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
1.a	Review flood ordinances every 3-5 years to include new flood zones, as necessary, and utilize most updated FEMA Flood Maps	1.a	Planning and Development Dawson County and City of Dawsonville	Flood; Thunderstorm; Tropical Cyclone	Local Budgets (Planning and Development Budget)	Staff Time	3 to 5 Years	High
1.b	Continue to employ the latest in recommended development regulations that manage land disturbances and constructions throughout the community, especially within environmentally sensitive areas	1.b	Planning and Development Dawson County and City of Dawsonville	Flood	Local Budgets (Planning and Development Budget)	Staff Time	12 Months	High
1.c	Adopt building design standards to have residential structures elevated to a certain height above the floodplain	1.c	Planning and Development Dawson County and City of Dawsonville	Flood	Local Budgets (Planning and Development Budget)	Staff Time	36 Months	Low
1.d	Adopt building design standards to have non- residential structures elevated above the floodplain and flood- proofed	1.d	Planning and Development Dawson County and City of Dawsonville	Flood	Local Budgets (Planning and Development Budget)	Staff Time	48 Months	Low
1.e	Maintain NFIP Compliance	1.e	Planning and Zoning City of Dawsonville	Flood	Local Budgets (Planning and Zoning Budget)	Staff Time	12 Months	High
1.f	Maintain NFIP Compliance	1.f	Planning and Development Dawson County	Flood	Local Budgets (Planning and Development Budget)	Staff Time	12 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
1.g	Notify owners of structures on the National Historic Registry that are located in flood- prone areas to ensure they are protected from flooding	1.g	EMA and Planning and Development Dawson County and City of Dawsonville	Flood	Local Budgets (EMA Budget, Planning and Development Budget)	Staff Time	18 Months	High
1.h	Participate in NFIP Community Rating System	1.h	Planning and Development Dawson County and City of Dawsonville	Flood	FEMA Flood Mitigation Assistance Grants; Local Budgets (Planning and Development Budget)	Staff Time	36 Months	Medium
1.i	Determine level of risk to Dawson County's historic resources from flooding and identify viable measures that can be implemented to mitigate those risks	1.i	Dawson County and City of Dawsonville Historic Societies Dawson County and City of Dawsonville	Flood; Thunderstorm; Tropical Cyclone	FEMA Flood Mitigation Assistance Grants; FEMA/GEMA Hazard Mitigation Grants; Local Budgets (General Funds)	\$15,000	48 Months	Medium
1.j	Develop a culvert plan to maintain information on all culverts in the county, including location, size, and type	1.j	Public Works Dawson County and City of Dawsonville	Flood; Thunderstorm; Tropical Cyclone	Local Budgets (Public Works Budget)	Staff Time	60 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
1.k	Continue to collaborate on a project to expand the data maintained for each culvert in the areas, including age, features, susceptibility to flooding, and improvement schedule	1.k	Public Works and GIS Dawson County and City of Dawsonville	Flood; Thunderstorm; Tropical Cyclone	Local Budgets (Public Works Budget)	Staff Time	60 Months	Medium
1.1	Upgrade and repair culverts in Dawson County and Dawsonville, as necessary	1.1	Public Works Dawson County and City of Dawsonville	Flood; Thunderstorm; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Works Budget)	TBD after Completion of Action 1.k	60+ Months	Medium
1.m	Create safe rooms within existing structures for vulnerable populations, including the elderly, children, and the sick	2.a	EMA and Facility Owners/Operators Dawson County and City of Dawsonville	Thunderstorm; Tornado	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$5,000,000	60 Months	Medium
1.n	Construct separate storm shelters in areas not conducive to safe rooms for vulnerable populations, including the elderly, children, and the sick	2.b	EMA and Facility Owners/Operators Dawson County and City of Dawsonville	Thunderstorm; Tornado; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$5,000,000	60 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
1.0	Continue to adopt the latest revision of building codes and require builders/developers to maintain standards and safe construction practices for the public	2.c	Planning and Development Dawson County and City of Dawsonville	Thunderstorm; Tornado	Local Budgets (Planning and Development Budget)	Staff Time	12 Months	Medium
1.p	Include a safe room into any fire department during rebuilds and new builds	2.d	Fire Department Dawson County and City of Dawsonville	Thunderstorm; Tornado; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; Local Budget (Public Safety Budget)	\$75,000 Each	36 Months	High
1.q	Install a safe room capable of housing at least 25 people in any new government building accessible by the public	2.f	Dawsonville and Dawson County Governments Dawson County and City of Dawsonville	Thunderstorm; Tornado; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$75,000 Each	48 Months	Medium
1.r	Continue to support participation in the Georgia Safe Dams Program	9.a	EMA and Planning and Development Dawson County and City of Dawsonville	Terrorism; Dam Failure	Local Budgets (Public Safety Budget)	Staff Time	12 Months	High
1.s	Establish a comprehensive inspection, maintenance, and enforcement program for dam structures	9.b	Georgia Department of Natural Resources Dawson County	Terrorism; Dam Failure	Department of Natural Resources; Private Grants; Local Budgets	\$8,000	42 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
			and City of Dawsonville		(Public Safety Budget)			
2.a	Ensure that all schools, courthouses, jails, fire stations, water plants, elderly living facilities, medical facilities, major employers, and other critical facilities purchase NOAA radios for those areas identified above that do not have one	3.a	EMA Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$20,000	36 Months	High
2.b	Continue to install weather sirens with the goal of obtaining 100% coverage of highly populated areas in Dawson County	3.b	EMA Dawson County and City of Dawsonville	Thunderstorm; Tornado	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$20,000	48 Months	Medium
2.c	Install lightning detection systems at Veterans Memorial Park, Rock Creek Park, school athletic fields, and Amicalola Falls State Park	3.d	EMA and Property Owners/Operators Dawson County and City of Dawsonville	Thunderstorm; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget, Recreation and Culture Budget)	\$20,000 Each	48 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
2.d	Promote weather apps for outdoor event locations without lightning detection systems	3.f	EMA Dawson County and City of Dawsonville	Thunderstorm; Tropical Cyclone	Local Budgets (Public Safety Budget)	Staff Time	12 Months	High
2.e	Purchase and distribute NOAA Weather Radios at county and municipal critical facilities	3.g	EMA Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$5,000	24 Months	Medium
2.f	Continue to check senior's NOAA weather radios annually to ensure correct FIPS Codes and working batteries	3.h	Senior Services Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone	Local Budgets (Health and Welfare Budget)	Staff Time	18 Months	Low
2.g	Create a replacement plan for outdoor warning sirens and update, as necessary	3.i	EMA Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone	Local Budgets (Public Safety Budget)	Staff Time	18 Months	Medium
2.h	Continue to encourage citizens to sign up for Swift 911 utilizing their mobile phone numbers	3.j	EMA Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire	Local Budgets (Public Safety Budget)	\$2,000	12 Months	High
3.a	Encourage all Dawson County Schools personnel to take the online FEMA Multi- Hazard Emergency Planning for Schools course	4.a	EMA and Dawson County Schools Dawson County and the City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget, Dawson County Schools Budget)	Staff Time	30 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
3.b	Encourage non-emergency employees of Dawson County and Dawsonville to participate in FIRST Program	4.b	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget)	Staff Time	24 Months	Medium
3.c	Encourage all elected officials and department heads to take ICS 100, 200, 700, and 800 courses	4.c	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget)	Staff Time	36 Months	Medium
3.d	Encourage all elected officials to take ICS 402 course	4.d	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget)	Staff Time	24 Months	Medium
3.e	Implement a public awareness campaign, in conjunction with Dawson County's StormReady efforts and the American Red Cross, including public service announcements, community forums, flyers, mailers, and social media	4.e	EMA Dawson County and City of Dawsonville	All Hazards	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$25,000	24 Months	High
3.f	Promote severe weather awareness vial social media, the county website, and newsletter, including the promotion of NOAA radio usage	4.f	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget)	Staff Time	18 Months	High
3.g	Utilize social media to ensure sirens are working each month by asking citizens to report whether they heard the sirens or not	4.j	EMA Dawson County and City of Dawsonville	Tornado	Local Budgets (Public Safety Budget)	Staff Time	12 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
3.h	Participate in National PrepareAthon/ National Preparedness Month	4.k	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget)	\$5,000	12 Months	Medium
3.i	Encourage employers to communicate the hazards of workplace chemicals and ensure that workers receive proper training, in accordance with the Right to Know Act	11.a	Fire Department and EMA Dawson County and City of Dawsonville	Hazardous Materials; Terrorism; Transportation	Local Budgets (Public Safety Budget)	Staff Time	12 Months	High
3.j	Ensure the labeling and placarding for identifying the types of hazardous materials at fixed facilities	11.b	Fire Department and EMA Dawson County and City of Dawsonville	Emergent Infectious Disease; Hazardous Materials; Terrorism	Local Budgets (Public Safety Budget)	Staff Time	12 Months	High
3.k	Establish a Local Emergency Planning Committee (LEPC)	11.c	EMA Dawson County and City of Dawsonville	Active Threat/Shooter; Cyberattack; Communications Failure; Emergent Infectious Disease; Hazardous Materials; Terrorism; Dam Failure; Transportation	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$5,000	24 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
3.1	Implement a public education campaign on the health risks associated with extreme temperatures, focusing on vulnerable populations (elderly, children, outdoor workers)	-	EMA Dawson County and City of Dawsonville	Extreme Temperatures	Local Budgets (Public Safety Budget, Health and Welfare Budget)	Staff Time	12 Months	Medium
3.m	Implement mandatory cybersecurity training for all government employees, focusing on identifying phishing attacks and secure data handling	-	IT Dawson County and City of Dawsonville	Cyberattack	Local and State Budgets (Information Technology Budget)	\$25,000	12 Months	Medium
4.a	Promote FireWise Community information in communities with a large number of residences in the Wildland-Urban Interface (WUI)	5.a	Fire Department Dawson County and City of Dawsonville	Drought; Wildfire	Local and State Budgets (Public Safety Budget)	Staff Time	12 Months	Medium
4.b	Perform proper tree maintenance around power lines to prevent power outages	5.b	Local Power Companies and Georgia Forestry Commission Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Drought; Wildfire	Private and State Budgets	\$100,000	36 Months	Medium
4.c	Continue to follow state water use ordinances for time of drought and consider stricter guidelines, when necessary	5.c	Planning and Development Dawson County and City of Dawsonville	Drought; Wildfire	Local Budgets (Planning and Development Budget)	Staff Time	18 Months	High
4.d	Routinely review and update the Water Conservation Plan, as needed	5.d	Etowah WSA and Planning and Development Dawson County	Drought; Extreme Temperatures	Local Budgets (Planning and Development Budget)	Staff Time	36 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
			and City of Dawsonville					
4.e	Exercise and review components of the Water Conservation Plan, including water points of dispensing, annually	5.e	EMA Dawson County and City of Dawsonville	Drought; Extreme Temperatures	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget, Public Works Budget)	\$5,000	12 Months	High
4.f	Purchase portable electronic signage and pallet jack for point of dispensing	5.f	EMA Dawson County and City of Dawsonville	Drought	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$12,000	30 Months	Medium
4.g	Purchase brush trucks	5.h	Fire Department Dawson County and City of Dawsonville	Wildfire	FEMA/GEMA Hazard Mitigation Grants; USFS; Local Budgets (Public Safety Budget)	\$62,500	48 Months	Medium
4.h	Purchase wildland firefighting gear	5.j	Fire Department Dawson County and City of Dawsonville	Wildfire	FEMA/GEMA Hazard Mitigation Grants; USFS; Local Budgets	\$8,000	18 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
					(Public Safety Budget)			
4.i	Perform wildland firefighting training for personnel	5.k	Fire Department Dawson County and City of Dawsonville	Wildfire	FEMA/GEMA Hazard Mitigation Grants; USFS; Local Budgets (Public Safety Budget)	\$5,000	18 Months	Medium
4.j	Build a drought contingency reservoir (e.g. Russell Creek Reservoir)	5.1	Etowah WSA Dawson County and City of Dawsonville	Drought; Wildfire	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Etowah WSA Budget)	\$4,000,000	60 Months	High
5.a	Create chainsaw strike teams by equipping and training personnel	6.a	EMA and Public Works Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; USFS; Local Budgets (Public Safety Budget, Public Works Budget)	\$10,000	36 Months	High
5.b	Hold annual exercise with Dawson County Schools to test school safety plan	6.c	EMA and Dawson County Schools Dawson County and the City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget, Dawson County	\$2,500	12 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
					Schools Budget)			
5.c	Train and equip a Swift Water Rescue Team	6.d	Fire Department and EMA Dawson County and City of Dawsonville	Flood; Thunderstorm; Tornado; Tropical Cyclone	FEMA/GEMA Hazard Mitigation Grants; USFS; Local Budgets (Public Safety Budget)	\$50,000	48 Months	Medium
5.d	Build a database of pre-recorded and pre-written mass notification messages for hazard events	6.f	EMA and 911 Dawson County and City of Dawsonville	Flood; Winter Weather; Thunderstorm; Tornado; Wildfire; Earthquake	Local Budgets (Public Safety Budget)	Staff Time	24 Months	Medium
5.e	Maintain an accurate accounting of existing generators and make recommendations for adding generators to critical facilities	6.g	EMA and Critical Facility Operators Dawson County and City of Dawsonville	Flood; Winter Weather; Thunderstorm; Tornado; Earthquake; Extreme Temperatures	Local Budgets (Public Safety Budget)	Staff Time	24 Months	Medium
5.f	Increase the number of American Red Cross identified and approved shelters	6.h	American Red Cross Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Earthquake; Extreme Temperatures	Private Grants	Staff Time	24 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
5.g	Purchase cots, trailers, mats, household products, and hygiene products for shelter operations	6.i	EMA Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Earthquake; Extreme Temperatures	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$70,000	60 Months	Medium
5.h	Identify local Good Samaritan shelter locations	6.k	EMA and American Red Cross Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Earthquake; Extreme Temperatures	Private Grants; Local Budgets (Public Safety Budget)	Staff Time	18 Months	Medium
5.i	Purchase equipment for an alternate 911 Center	6.m	911 Dawson County and City of Dawsonville	Flood; Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$100,000	60 Months	Low
5.j	Build an EOC and 911 Center in a hardened building for Dawson County and Dawsonville	6.n	EMA and 911 Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$2,500,000	60 Months	Medium







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
5.k	Build an alternate EOC and 911 with a safe room (or underground location)	6.0	EMA and 911 Dawson County and City of Dawsonville	Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$1,000,000	60 Months	Medium
5.1	Build redundant fiber rings for 911 lines in conjunction with surrounding jurisdictions	6.p	911 and Surrounding Jurisdictions Dawson County and City of Dawsonville	All Hazards	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget, Public Works Budget)	\$5,000,000	60 Months	Medium
5.m	Acquire VoIP at 911 to ensure lines can continue to be answered	6.q	911 Dawson County and City of Dawsonville	All Hazards	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets (Public Safety Budget)	\$100,000	30 Months	High
5.n	Replace county radio system	6.s	EMA, 911, and All Public Safety Agencies Dawson County and City of Dawsonville	Flood; Winter Weather; Thunderstorm; Tornado; Tropical Cyclone;	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$8,000,000	60 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
				Wildfire; Earthquake				
5.0	Purchase mobile light units/lighting system for disaster sites and large events	6.v	EMA Dawson County and City of Dawsonville	Flood; Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$30,000	30 Months	Medium
5.p	Identify existing facilities and new facilities, if needed, in vulnerable areas that can serve as public cooling and warming centers	-	EMA Dawson County and City of Dawsonville	Winter Weather; Extreme Temperatures	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget, Health and Welfare Budget)	\$50,000	24 Months	High
5.q	Conduct regular active threat drills and tabletop exercises with local law enforcement, emergency services, and public schools	-	EMA, Law Enforcement Agencies, and Dawson County Schools Dawson County and City of Dawsonville	Active Threat/Shooter	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget, Dawson County	\$30,000	12 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
					Schools Budget)			
5.r	Provide multi-lingual support for all mass notification messages and public outreach resources	-	EMA Dawson County and City of Dawsonville	All Hazards	Local Budgets (Public Safety Budget, Health and Welfare Budget)	\$20,000	24 Months	Low
6.a	Inventory Dawson County's historic resources and archive them on backup servers	7.a	Dawson County Administration Dawson County	Flood; Winter Weather; Thunderstorm; Tornado; Tropical Cyclone; Wildfire; Earthquake	Local Budgets (General Fund)	\$8,000	30 Months	High
6.b	Purchase a digital system to continuously monitor sirens to ensure proper functioning	7.b	EMA Dawson County and City of Dawsonville	Thunderstorm; Tornado	FEMA/GEMA Hazard Mitigation Grants; Local Budgets (Public Safety Budget)	\$50,000	30 Months	High
6.c	Provide additional interconnection points between the City of Dawsonville and Etowah Water and Sewer Authority water systems	7.d	Etowah WSA and City of Dawsonville Dawson County and City of Dawsonville	Thunderstorm; Tornado; Drought; Wildfire; Earthquake	FEMA/GEMA Hazard Mitigation Grants; Private Grants; Local Budgets	\$150,000	36 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
					(Public Safety Budget, Public Works Budget, Etowah WSA Budget)			
6.d	Provide interconnection points between the City of Gainesville and Etowah Water and Sewer Authority water systems	7.f	Etowah WSA and City of Gainesville Dawson County and City of Dawsonville	Thunderstorm; Tornado; Drought; Wildfire; Earthquake	Private Grants; Local Budgets (Public Safety Budget, Public Works Budget, Etowah WSA Budget)	\$1,750,000	60 Months	High
6.e	Establish a cybersecurity task force to assess vulnerabilities in local government systems and develop a response plan for cyber threats	-	EMA and IT Dawson County and City of Dawsonville	Cyberattack	Private Grants; Local Budgets (Information Technology Budget)	\$50,000	24 Months	High
7.a	Continue to enforce zoning ordinances that create separation and buffering between industrial areas and other land uses, including schools, nursing facilities, hospitals, and other facilities with large, vulnerable populations	10.a	Planning and Development Dawson County and City of Dawsonville	Emerging Infectious Disease; Hazardous Materials; Terrorism; Transportation	Local Budgets (Planning and Development Budget)	Staff Time	12 Months	Medium
7.b	Hold an annual refresher HazMat training session for all Fire, EMS, and law enforcement personnel	10.d	Fire Department, EMA, EMS, and Law Enforcement Agencies Dawson County	Emerging Infectious Disease; Hazardous Materials; Terrorism; Transportation	Local Budgets (Public Safety Budget)	Staff Time	12 Months	High







ID	Mitigation Action	2018 ID	Lead Agency or Department <i>Jurisdiction</i>	Hazard(s) Addressed	Funding Source	Estimated Cost	Completion Time Frame	Priority
			and City of Dawsonville					







Chapter 5. Plan Implementation and Maintenance

5.1. Summary of Updates for Chapter Five

The following table provides a description of each section of this chapter, and a summary of the changes that have been made to the Dawson County Hazard Mitigation Plan 2018.

Chapter 5 Section	Updates
Maintenance	Content revised as needed
Plan Distribution	Content revised as needed
Implementation	Content revised as needed
Evaluation	Content revised as needed
Peer Review	Content revised as needed
Plan Update	Content revised as needed
Conclusion	Content revised as needed

5.2. Maintenance

To adhere to best practices, state and federal guidelines, and lessons learned, the Dawson County Hazard Mitigation Plan Update Committee has developed a method to ensure the regular review and update of the Plan occurs. Plan maintenance protocols identified during the 2012 Dawson County Hazard Mitigation Plan and 2017 Plan Update were followed to the best of Dawson County's abilities. The Dawson County Hazard Mitigation Plan Update Committee will reconvene annually to monitor and evaluate the progress of the mitigation strategies in the Plan. Dawson County's Emergency Management Director, Troy Leist, will be responsible for implementing this meeting. The Committee will discuss the following questions annually:

- Do the goals address current and expected hazards and conditions?
- Are the goals and objectives still relevant to the County?
- Has the nature or magnitude of risks changed?
- Does the risk assessment portion of the Plan need to be updated or modified?
- Are the goals and objectives meeting changes in state and federal policy?
- Are the current resources appropriate for implementing the Plan?
- Are there local implementation problems, such as technical, political, legal, or coordination issues with other agencies?
- Did the jurisdictions, agencies, and other partners participate in the plan implementation process as proposed?

The responsible parties will provide a report at the annual meeting on their mitigation strategies. The report will address the following topics:







- During the implementation, were there any difficulties encountered?
- How successful was the coordination of efforts?
- Are there any suggestions for revising any mitigation strategies?

Dawson County's Emergency Management Director will send the minutes from this annual meeting to Dawson County Commissioners and City and Town Councils for review. If there are any updates or modifications to the Dawson County Hazard Mitigation Plan, the Emergency Management Director will forward the changes to the Georgia Emergency Management Agency's Hazard Mitigation Officer. The Dawson County Hazard Mitigation Plan's annual reviews will be open to the public. These meetings will be advertised in local newspapers, as well as on signage in the publicly-used facility where the meeting is hosted. Additionally, an online platform will be provided for members of the public to join the meeting.

Maintenance Log

Revision Date	Revised Section	Reason for Revision	Revised By







5.3. Plan Distribution

This plan will be distributed to various departments and organizations within Dawson County, including but not limited to:

- Dawson County Board of Commissioners
- Dawson County Fire Department
- Dawson County Emergency Management Agency
- Dawson County Sheriff's Office
- Dawson County Public Works
- Dawson County Planning and Development
- Dawson County Board of Education
- City of Dawsonville

A printed copy of the approved Plan will be available for viewing at the Dawson County Emergency Management Agency located at 393 Memory Lane, Dawsonville, GA 30534. A printed copy of the approved Plan will also be available for viewing at the Chestatee Regional Public Library located at 342 Allen Street in Dawsonville. The existence and location of these copies will be publicized in the County's local newspaper, the Dawson County News.

All comments, questions, concerns, and opinions about the Plan will be directed to Director Troy Leist of the Dawson County Emergency Management Agency for follow-up.

5.4. Implementation

The Dawson County Hazard Mitigation Plan requires each jurisdiction to carry out certain mitigation actions as laid out in the plan. To ensure the proposed strategies are implemented successfully, every department or agency responsible for a strategy is identified in the Mitigation Strategies section. This allocation of responsibility increases accountability and the likelihood of successful implementation.

It is common to have a local lead department or agency assigned for a particular strategy. Additionally, there may be secondary or assisting departments or agencies listed to share responsibility and coordinate efforts for some strategies that cross departmental lines. A completion date is assigned to monitor whether the identified mitigation strategies are being implemented in a timely manner.

Dawson County and the City of Dawsonville will look for external sources of funding to carry out prevention projects both before and after a disaster. Potential funding sources have been identified for the actions listed in the mitigation strategies. Each participating jurisdiction will be responsible for deciding on additional implementation procedures beyond those outlined in the Dawson County Hazard Mitigation Plan.

This plan, as a joint effort between Dawson County and the City of Dawsonville, will serve as a comprehensive mitigation plan. The mitigation strategies, hazard identification, and other information identified in this plan will be integrated into all comprehensive Dawson County plans, as well as all municipality plans in the future. Incorporation of these strategies will occur, as necessary, throughout this planning cycle covered by this Hazard Mitigation Plan Update. Aspects of this plan will be integrated into the Dawson County Comprehensive Plan during the







next planning cycle. This comprehensive plan is a joint, multi-jurisdictional plan that covers both unincorporated Dawson County and the City of Dawsonville. The City of Dawsonville will additionally incorporate mitigation strategies into their future land use zoning and planning ordinances, development regulations, and the Dawsonville Downtown Master Plan.

Identified hazards and mitigation strategies of the 2018 Dawson County Hazard Mitigation plan were integrated into the Local Emergency Operations Plan, multiple County and City SOPs and SOGs, and future planning and zoning plans. Dawson County will integrate mitigation strategies identified in this plan into the Dawson County Comprehensive Plan, Community Wildfire Protection Plan, Continuity of Operations Plan, and other future plans. Strategies identified in the previous plan were applied to grant applications, building and zoning requirements, and development planning considerations for Dawson County and the City of Dawsonville. Many of these strategies will be applied using previously identified policies and ordinances, including the NFIP compliance ordinances and water-use ordinances, which have now been applied countywide. All jurisdictions have the authority to adopt locally-binding ordinances and policies to enhance the mitigation strategies in their jurisdiction.

The Legal and Regulatory Capability survey lists the authorities and enabling legislation that are available at the state level to support local hazard mitigation planning efforts. This survey also identifies the planning and land management tools that are typically used by states and local jurisdictions to implement hazard mitigation activities.

Regulatory Tools/Plans	Regulatory Type: Ordinance, Resolution, Codes, Plans, Etc.	Local Authority	State Prohibited	Higher Authority
Building Codes	County/Municipal Code	Yes	No	No
Capital Improvements Plan	2008-2028 Dawson County Comprehensive Plan	Yes	No	No
Comprehensive Plan	2008-2028 Dawson County Comprehensive Plan	Yes	No	No
Economic Development Plan	2008-2028 Dawson County Comprehensive Plan	Yes	No	Yes
Emergency Management Accreditation Program		No	No	Yes
Emergency Response Plan	Dawson County Local Emergency Operations Plan (LEOP)	Yes	No	Yes







Flood Management Plan	Dawson County Code Chapter 38, Article V (Flood Damage Prevention)	Yes	No	No
Historic Preservation		Yes	No	No
National Flood Insurance Program Participation	Dawson County Code Chapter 38, Article V, Division 2, Section 38-506	Yes	No	Yes
Continuity of Government/ Operations Plan		No	No	No
Post-Disaster Ordinance	Dawson County Code Chapter 22, Article III	Yes	No	No
Zoning Ordinances	County and Municipal Codes	Yes	No	No

The City of Dawsonville provides a range of administrative and technical services to its community. Its departments include Administrative, Public Works, Utilities, and Planning and Zoning. For public safety services, such as police, fire suppression, and emergency medical response, the City of Dawsonville relies on Dawson County. Over the past two decades, the City of Dawsonville has annexed portions of Dawson County, particularly areas to the north of the core commercial area of Dawsonville. These annexations have expanded the City of Dawsonville's jurisdiction and created greater homogeneity of population between the City of Dawsonville and Dawson County.

The Dawson County Hazard Mitigation Planning Committee aims to identify more opportunities to integrate the requirements of this plan into other local planning mechanisms. While there are many potential benefits to integrating components of this plan into other local planning mechanisms, the committee believes that the development and maintenance of this stand-alone Hazard Mitigation Plan is currently the most effective and appropriate way to implement local hazard mitigation actions.

While Dawson County and the City of Dawsonville have significant capabilities in developing their mitigation strategies, there are several ways in which they can further expand and improve these abilities to address evolving threats and vulnerabilities in the future:

- Expanding Financial Resources: Both jurisdictions can explore new avenues for securing mitigation funding by developing partnerships with private entities and nongovernmental organizations that focus on disaster resilience. Additionally, the pursuit of competitive federal and state grants, such as those provided by FEMA and GEMA can provide supplemental resources to expand large-scale mitigation projects like infrastructure hardening and floodplain management.
- Improving Interagency Collaboration and Communication: The jurisdictions can enhance
 their ability to coordinate efforts through the development of joint training programs,
 exercises, and tabletop simulations that bring together multiple agencies, including
 emergency services, public works, and public health departments. This can improve the
 speed and efficiency of interagency communication and resource sharing, especially
 during large-scale disaster events. Additionally, improving communication technology







through the adoption of a unified, interoperable communication platform will streamline collaboration between city, county, and state agencies.

- Building Human Capital through Training and Certification: The expansion of training
 programs focused on disaster resilience and hazard mitigation can bolster the
 administrative and technical skills of city and county employees. Future efforts could
 include providing certification programs for public employees in emergency management
 and disaster preparedness.
- Encouraging Public-Private Partnerships: To bolster future mitigation efforts, Dawson
 County and the City of Dawsonville can actively foster partnerships with the private
 sector, including utility companies, real estate developers, and business associations. By
 collaborating on projects, the public and private sectors can share the burden of
 implementing cost-intensive mitigation strategies. These partnerships can also provide
 opportunities for innovative, tech-driven solutions, particularly in areas such as smart city
 infrastructure and energy resilience.
- Increasing Community Engagement and Education: A future priority for both jurisdictions
 can be the expansion of public education and outreach programs to ensure the
 community is fully aware of mitigation strategies and disaster preparedness practices.
 Leveraging digital platforms and social media to communicate mitigation initiatives and
 hazard alerts will increase public participation. Additionally, engaging local schools,
 businesses, and civic organizations in resilience-building activities can ensure a more
 comprehensive and community-driven approach to future mitigation efforts.
- Legal and Regulatory Advancements: As state and federal regulations evolve, Dawson
 County and the City of Dawsonville should continuously update their ordinances and
 policies to ensure alignment with the latest hazard mitigation guidelines. The jurisdictions
 can adopt more robust land-use policies that discourage development in high-risk areas
 and promote the use of green infrastructure to mitigate flooding and erosion risks.
 Regularly updating zoning laws and development codes to reflect changes in climate
 risks will ensure long-term sustainability and safety.

5.5. Evaluation

Periodic revisions and updates of the Dawson County Hazard Mitigation Plan may be required to ensure that the goals of this plan are kept current with federal, state, and local regulations. These revisions should also consider any potential changes in the hazard vulnerability and mitigation priorities of Dawson County.

The Dawson County Hazard Mitigation Plan Update Committee will meet annually to review the Dawson County Hazard Mitigation Plan. During this annual review, mitigation strategies will be reviewed to evaluate the progress that has occurred for each identified mitigation strategy. The Dawson County Hazard Mitigation Plan Update Committee will also meet following any disaster event to review the identified mitigation strategies for that hazard event and determine if timelines should be adjusted or additional mitigation strategies should be identified and added to the plan. These steps will ensure that the Dawson County Hazard Mitigation Plan is continuously updated to allow for changes in hazard vulnerabilities and identified mitigation strategies.

The Dawson County Hazard Mitigation Plan Update Committee will complete all evaluations of the Dawson County Hazard Mitigation Plan.







5.6. Peer Review

Representatives from neighboring emergency management agencies conducted a peer review of the Dawson County Hazard Mitigation Plan Update. The purpose of the review was to maintain quality standards, improve performance, and provide credibility to the plan. This peer review process is a form of self-regulation and accountability, and it provides new insights from qualified professionals who face similar natural and man-made hazards in their own communities.

5.7. Continued Public Involvement

Dawson County and the City of Dawsonville will encourage public participation during the next 5-year planning cycle. Dawson County will have the plan posted on the county website with an email address for those who may want to add comments or ask questions regarding the plan and its contents. In addition, as updates and a review of the plan are conducted by the HMPC, these will be placed on the jurisdictions' websites, and any meetings of the HMPC will be publicly noticed in accordance with the city and state policies. The posting will include a mechanism for citizen feedback such as an email address to send comments.

5.8. Plan Update

The Hazard Mitigation Plan needs to be updated at least once every five years as required by the Federal Disaster Mitigation Act of 2000. It is the responsibility of the Dawson County Emergency Management Agency to ensure that this requirement is met. The Dawson County Hazard Mitigation Plan Update Committee will assist the department in the process and ensure that all jurisdictions contribute to the planning. The public will be invited to participate in the planning process through public hearings held during major updates and annual review meetings. The current plan will expire in the first quarter of 2029, so the next plan update must be approved and adopted before that time.

In the second quarter of 2028, Dawson County will initiate the fifth Hazard Mitigation Plan Update process. This update will involve meetings to achieve the objectives of the Dawson County Hazard Mitigation Plan. The Dawson County Emergency Management Agency will lead this planning process, while the Dawson County Hazard Mitigation Planning Committee will follow a similar approach as the previous cycle to fulfill all FEMA and GEMA requirements for the Hazard Mitigation Plan Update. The committee aims to complete this process by the fourth quarter of 2028 to meet all identified planning deadlines.

5.9. Conclusion

Through the hazard mitigation planning process, Dawson County, the City of Dawsonville, and other participating organizations have gained a wealth of information and knowledge about the county's history of disasters, natural and technological hazards, vulnerabilities, and potential strategies to reduce the effects of these hazards.

During the Hazard Mitigation Planning Committee meeting, it was identified that it is difficult to pinpoint the vulnerable geographic locations for most hazards due to their widespread potential effects and random impact areas. This is especially true for natural hazards. To tackle this







issue, the Dawson County Hazard Mitigation Plan Update Committee decided to create mitigation goals, objectives, and strategies that are both general and specific in nature. These strategies will help the committee to adopt the most effective measures that will benefit the maximum number of people in the area. The Dawson County Hazard Mitigation Planning Committee adopted strategies in all six of the major mitigation categories: Prevention, Property Protection, Natural Resource Protection, Structural Projects, Emergency Services, and Public Education and Awareness.







DAWSON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN, 2024 – 2029 UPDATE APPENDIX A: DAWSON COUNTY INVENTORY OF DAMS

Appendix A. Dawson County Inventory of Dams

Dawson County Category I Dams

Name	Latitude	Longitude	Height (feet)	Storage (acres)
Amicalola Creek Watershed Structure # 1	34.546389	-84.264280	44.00	349.00
Amicalola Creek Watershed Structure # 3	34.543056	-84.198611	56.00	1294.00
Etowah River Reach Sub Watershed Structure # 12	34.393980	-84.074620	63.00	1047.00
Etowah River Reach Watershed Structure # 22	34.460650	-84.161840	43.00	307.00
Etowah River Reach Watershed Structure # 23	34.470570	-84.145030	29.00	225.00
Yellow Creek Reservoir Dam	34.357778	-84.253333	114.00	13587.00

Dawson County Category II Dams

Dawson County Category II Dams						
Name	Latitude	Longitude	Height (feet)	Storage (acres)		
Amicalola Creek Watershed Structure # 2	34.531944	-84.245000	65.00	941.00		
Amicalola Creek Watershed Structure #4	34.521944	-84.183889	48.00	592.00		
Etowah River Watershed Structure # 10	34.384722	-84.106111	54.00	521.00		
Etowah River Watershed Structure # 13	34.401620	-84.058800	51.00	654.00		
Etowah River Watershed Structure # 24	34.485833	-84.159722	32.00	167.00		
Etowah River Watershed Structure # 9	34.362500	-84.081111	31.00	427.00		
Fausett Lake Dam	34.528333	-84.280278	31.00	576.00		
Gilleland Lake Dam	34.473056	-84.163611	24.00	124.00		
Gold Creek Golf Club Lake Dam # 2	34.450278	-84.110833	43.00	350.00		
Gold Creek Golf Club Lake Dam #1	34.449167	-84.105278	38.00	464.00		
Howington Lake Dam	34.396389	-84.069444	32.00	64.00		
Rainbow Lake Dam	34.440556	-84.197500	32.00	250.00		
Running Pine Lake Dam	34.362500	-84.204167	29.00	33.00		
Strickland Lake Dam	34.396111	-84.219722	26.00	6.00		
Thomas Lake Dam	34.337222	-84.109167	30.00	66.00		
Toto Estates Lake Dam (Lower)	34.391944	-83.991389	31.00	36.00		
Toto Estates Lake Dam (Upper)	34.390556	-83.993056	29.40	36.00		
Wood Lake Dam (East)	34.572500	-84.311111	31.00	33.00		







Appendix B. Committee Lists

2024 Committee Meeting Attendance List

Name	4/4/23	5/2/23	6/8/23	7/11/23	8/8/23	9/19/23
Chief Troy Leist		Х	Х	Х		Х
Brooke Anderson, PE	X	X	X	Χ		X
Wesley Sisk						
Greg Rowan						
Tony Wooten	Х		Х	Х	Х	
Emory Dooley						Х
Ricky Jordan					Х	
Matt Payne						
Lydell Mack						
Kevin Herrit						
Mandy Power						
Johnny Irvin						
Bob Bolz		Х	Х	Х		Х
Trampas Hansard		Х		Х		Х
Robert Drewry	X					

2018 Committee List

Brooke Anderson *General Manager*Etowah Water and Sewer Authority

Kristan Bean 911 Assistant Director Dawson County Sheriff's Office

Bob Bolz

City Manager

City of Dawsonville

Kenneth W. Brooks

Ranger II

Georgia Forestry Commission

Rickey Dean Brown
Chief Operations Officer
Dawson County School System

Jason Brownell

Director of Operations

Big Canoe Property Owners Association

Jason Dooley

Battalion Chief

Dawson County Emergency Services

Sharon R. Fausett

County Commissioner – District One Dawson County Board of Commissioners

Kevin Gibbs Park Manager

Amicalola Falls State Park

Trampas Hansard
Operations Manager

City of Dawsonville Public Works

David Headley
County Manager

Dawson County Public Administration

Lisa Hensa Director

Dawson County Parks and Recreation







Richard Jordan

Public Safety Director

Big Canoe Property Owners Association

Tim Joy
Chief Ranger
Georgia Forestry Commission

Dorothy Jubon Lead – External Affairs

American Red Cross - Northeast Georgia Chapter

Clark MacAllister

Extension Coordinator

University of Georgia Extension

Stephen Maddox
Lieutenant/Assistant Patrol Commander
Dawson County Sheriff's Office

Casey Majewski

Planning Director

City of Dawsonville Planning and Zoning

David McKee

Director

Dawson County Public Works

Dick McNeill

Business Consultant
Citizen Representative

Julie Hughes Nix

Commissioner, District 4

Dawson County Board of Commissioners

Dave Palmer
Public Information Officer
Georgia Department of Public Health, District 2

Dawn Pruett

Director

Dawson County Senior Services

Ricky Rexroat

Deputy Chief/Deputy EMA Director (Former Retired)

Dawson County Emergency Services

Jim Rich

Director of Transportation

Dawson County Board of Education

Robin Roland
IT Coordinator
Dawson County Information Technology
Department

Greg Rowan

Chief Deputy

Dawson County Sheriff's Office

Aleisha Rucker-Wright *Director* Dawson County E-911

Tim Satterfield

Deputy Chief (Former - Retired)

Dawson County Emergency Services

Danny Speaks

Division Chief of Operations and Training

Dawson County Emergency Services

Jason Streetman

Planning Director

Dawson County Planning and Development

Lanier Swafford
Fire Chief; Director (Former - Retired)
Dawson County Emergency Services; Dawson
County Emergency Management

Kurt Tangel
Chief Appraiser (Former)
Dawson County Tax Assessors Office

Billy Thurmond

Chairman

Dawson County Board of Commissioners







Sample Email Invitations Sent for Planning Participation

Troy Leist

From: Troy Leist

Sent: Tuesday, March 21, 2023 9:29 AM To: Tony Wooten Subject: Hazard Mitigation Plan Update

We are starting the process for the Counties Hazard Mitigation Plan update. Would you like to be part of the planning team, or is there someone else in the school

Troy Leist Fire Chief/EMA Director **Dawson County Fire & Emergency Services** (Office) 706-344-3666 (Cell) 831-998-0360

tleist@dawsoncountyga.gov

Troy Leist

From: Troy Leist

Sent: Wednesday, March 22, 2023 9:57 AM

To: Matt Payne

Subject: Hazard Mitigation Plan Update

Matt.

The county is in the process of updating our hazard mitigation plan. Would you like to be part of the planning team? This would require a few meetings that will most likely be remote. If you would like to participate, I will add you to the list and you should hear something about the first meeting within a few weeks. Thanks

Troy Leist Fire Chief/EMA Director **Dawson County Fire & Emergency Services** (Office) 706-344-3666 (Cell) 831-998-0360 tleist@dawsoncountyga.gov

Troy Leist

From: Troy Leist

Sent: Tuesday, March 21, 2023 10:46 AM

To: Billy Thurmond

Subject: Hazard Mitigation Plan Update

Good Morning,

As you know the county is in the process of updating the hazard mitigation plan. I'm looking for one representative from the Commissioners to be on the planning team. Do you have a preference on who serves on the team? It would involve a few meetings that will most likely be remote. Thanks Billy, have a great day.

Troy Leist Fire Chief/EMA Director **Dawson County Fire & Emergency Services** (Office) 706-344-3666 (Cell) 831-998-0360 tleist@dawsoncountyga.gov









Appendix C. Critical Facilities

Facility	Jurisdiction	Facility Type
ACCG Fire Dept Headquarters	Dawson County	Emergency Services, Fire
ACCG Rock Creek Park	Dawson County	Government
Ettowah Water and Sewer Authority Administration Building	Dawson County	Government, Water/Sewer
Amicalola Creek W/S Str #1	Dawson County	Government, Water/Sewer
Amicalola Creek W/S Str #2	Dawson County	Government, Water/Sewer
Amicalola Creek W/S Str #3	Dawson County	Government, Water/Sewer
Amicalola Creek W/S Str #4	Dawson County	Government, Water/Sewer
Amicalola Regional Farmers Market	Dawsonville	NGO
Amicalola Water Storage Tank	Dawson County	Government, Water/Sewer
Annex&Public Works	Dawson County	Government, Water/Sewer
Auraria Water Storage Tank	Dawson County	Government, Water/Sewer
Big Canoe Fire Dept 2	Dawson County	Emergency Services, Fire
Black's Mill Elementary School	Dawson County	Education, K-12
Black's Mill Lift Station	Dawson County	Government, Water/Sewer
Black's Mill School Lift Station	Dawson County	Government, Water/Sewer
Blueridge Overlook Water Storage Tank & Pump Station	Dawson County	Government, Water/Sewer
Bottom Treatment Pond/Treatment Pond 1	Dawsonville	Government, Water/Sewer
Burt Creek Lift Station	Dawsonville	Government, Water/Sewer
Burt Creek Pump Staton	Dawson County	Government, Water/Sewer
Burt Creek Water Storage Tank	Dawson County	Government, Water/Sewer
Burts Crossing Lift Station	Dawsonville	Government, Water/Sewer
Chamber Lift Station	Dawson County	Government, Water/Sewer
Chestatee Emergency Center	Dawson County	Medical
City of Dawsonville Public works/ Utilities office	Dawsonville	Government
Creekstone Lift Station	Dawsonville	Government, Water/Sewer
Crown Point Lift Station	Dawsonville	Government, Water/Sewer
Crystal Falls Water Reclamation Facility	Dawson County	Government, Water/Sewer
DAWSON CO-SHOAL HOLE RD (SL)	Dawson County	Government
Dawson County Courthouse	Dawson County	Government







Facility	Jurisdiction	Facility Type
Dawson County Fire Department Station 02	Dawson County	Emergency Services, Fire
Dawson County Fire Department Station 03	Dawson County	Emergency Services, Fire
Dawson County Fire Department Station 04	Dawson County	Emergency Services, Fire
Dawson County Fire Department Station 05	Dawson County	Emergency Services, Fire
Dawson County Fire Department Station 8	Dawson County	Emergency Services, Fire
Dawson County Fleet Maintence	Dawson County	Government, Transportation
Dawson County Headquarters Fire/Rescue Department Station 01	Dawson County	Emergency Services, Fire
Dawson County High School & Agriculture Building	Dawson County	Education, K-12
Dawson County Historic Courthouse	Dawson County	Government
Dawson County Jail	Dawson County	Law Enforcement, Jail Services
Dawson County Junior High School	Dawson County	Education, K-12
Dawson County Magistrate	Dawson County	Government
Dawson County Middle School	Dawson County	Education, K-12
Dawson County Public Library	Dawson County	Government
Dawson County Public Works Bldg.	Dawson County	Government
Dawson County Sheriff's Office	Dawson County	Law Enforcement
Dawson Forest Road Lift Station	Dawson County	Government, Water/Sewer
Dawson Forest Water Reclamation Facility	Dawson County	Government, Water/Sewer
Dawson Pointe Lift Station	Dawson County	Government, Water/Sewer
Dawsonville City Hall	Dawsonville	Government
Dawsonville Pond	Dawson County	Government, Water/Sewer
Downtown Lift Station	Dawsonville	Government, Water/Sewer
Etowah River Reach Sub W/S Str #12	Dawson County	Government, Water/Sewer
Etowah River Reach W/S Str #22	Dawson County	Government, Water/Sewer
Etowah River Reach W/S Str #23	Dawson County	Government, Water/Sewer
Etowah River W/S Str #13	Dawson County	Government, Water/Sewer
Etowah River W/S Str #24	Dawson County	Government, Water/Sewer







Facility	Jurisdiction	Facility Type
Etowah River W/S Str #9	Dawson County	Government, Water/Sewer
Etowah W/S Str #10	Dawson County	Government, Water/Sewer
Farmington Woods Lift Station	Dawsonville	Government, Water/Sewer
Fausett Lake Dam	Dawson County	Government, Water/Sewer
Flat Creek Lift Station	Dawsonville	Government, Water/Sewer
Gilleland Lake Dam	Dawson County	Government, Water/Sewer
Gold Creek Golf Club Lake Dam # 2	Dawson County	Government, Water/Sewer
Gold Creek Golf Club Lake Dam #1	Dawson County	Government, Water/Sewer
Gold Creek Lift Station	Dawsonville	Government, Water/Sewer
Goshen Family Medicine	Dawson County	Medical
Hightower Water Treatment Facility	Dawson County	Government, Water/Sewer
Hightower WTF Water Storage Tank	Dawson County	Government, Water/Sewer
Hightower WTFWater Storage Tank	Dawson County	Government, Water/Sewer
Holding Pond	Dawsonville	Government, Water/Sewer
Howington Lake Dam	Dawson County	Government, Water/Sewer
Hwy 53 Water Storage Tank & Pump Station	Dawson County	Government, Water/Sewer
Hwy 9 North/Townley Water Storage Tank & Pump Station	Dawson County	Government, Water/Sewer
Kilough Elementary School	Dawson County	Education, K-12
Maintenance Shop/sprayfields	Dawsonville	Government
Northeast Georgia Urgent Care	Dawson County	Medical
Northside Urgent Care	Dawson County	Medical
Oakmont Lift Station	Dawson County	Government, Water/Sewer
Rainbow Lake Dam	Dawson County	Government, Water/Sewer
Rental Residence	Dawsonville	Government
Riverview Elementary School	Dawson County	Education, K-12
Riverview Lift Station	Dawson County	Government, Water/Sewer
Robinson Elementary School	Dawson County	Education, K-12
Running Pine Lake Dam	Dawson County	Government, Water/Sewer
Scott Lake Dam	Dawson County	Government, Water/Sewer
Shoal Creek Lift Station	Dawsonville	Government, Water/Sewer
Southmark Dam	Dawson County	Government, Water/Sewer
Spring 105	Dawsonville	Government, Water/Sewer
Tank 1	Dawsonville	Government, Water/Sewer
Tank 2	Dawsonville	Government, Water/Sewer







Facility	Jurisdiction	Facility Type		
Technology Building	Dawson County	Education		
Tel Tek Lift Station	Dawson County	Government, Water/Sewer		
Thomas Lake Dam	Dawson County	Government, Water/Sewer		
Thompson Creek Lift Station	Dawson County	Government, Water/Sewer		
Thunder Ridge Lift Station	Dawson County	Government, Water/Sewer		
Toto Estates (lower)	Dawson County	Government, Water/Sewer		
Toto Estates (upper)	Dawson County	Government, Water/Sewer		
Transportation Building	Dawson County	Government, Transportation		
Treatment Pond 2	Dawsonville	Government, Water/Sewer		
Well 106	Dawsonville	Government, Water/Sewer		
Well 108	Dawsonville	Government, Water/Sewer		
Well 109	Dawsonville	Government, Water/Sewer		
Well 110	Dawsonville	Government, Water/Sewer		
Well 111	Dawsonville	Government, Water/Sewer		
Wood Lake Dam (East)	Dawson County	Government, Water/Sewer		
Yellow Creek Reservoir Dam	Dawson County	Government, Water/Sewer		







Appendix D. Hazard Data Tables

Thunderstorms

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
9993534	DAWSON CO.		04/01/1974	2350	Thunderstorm Wind	0	0	0	0
9993556	DAWSON CO.		04/08/1974	1330	Thunderstorm Wind	0	0	0	0
9994470	DAWSON CO.		09/13/1979	1630	Thunderstorm Wind	0	0	0	0
9993740	DAWSON CO.		07/01/1983	1325	Thunderstorm Wind	0	0	0	0
9996021	DAWSON CO.		03/28/1984	1240	Thunderstorm Wind	0	0	0	0
9996062	DAWSON CO.		05/07/1984	2045	Thunderstorm Wind	0	0	0	0
9997820	DAWSON CO.		04/05/1985	1920	Thunderstorm Wind	0	0	0	0
9994735	DAWSON CO.		06/06/1985	1644	Thunderstorm Wind	0	0	0	0
9997027	DAWSON CO.		05/26/1986	2300	Thunderstorm Wind	0	0	0	0
9997028	DAWSON CO.		05/26/1986	2330	Thunderstorm Wind	0	0	0	0
9996221	DAWSON CO.		04/15/1987	145	Thunderstorm Wind	0	0	0	0
9994111	DAWSON CO.		04/04/1989	1410	Thunderstorm Wind	0	0	0	0
9997703	DAWSON CO.		04/28/1990	1250	Thunderstorm Wind	0	0	0	0
10010237	DAWSON CO.		04/29/1991	1130	Thunderstorm Wind	0	0	0	0
10007223	DAWSON CO.		07/02/1992	700	Thunderstorm Wind	0	0	0	0
10319208	DAWSON CO.	Dawsonville	04/15/1993	1955	Thunderstorm Wind	0	0	500	0
10319209	DAWSON CO.	Dawsonville	05/21/1994	1500	Thunderstorm Wind	0	0	5000	0
10319210	DAWSON CO.	Dawsonville	06/27/1994	100	Thunderstorm Wind	0	0	5000	0
10319211	DAWSON CO.	Dawsonville	01/19/1995	1555	Thunderstorm Wind	0	0	500000	0
5553904	DAWSON CO.	DAWSONVILLE	05/27/1996	2100	Thunderstorm Wind	0	0	2500	0
5605191	DAWSON CO.	DAWSONVILLE	03/05/1997	1836	Thunderstorm Wind	0	0	2000	0
5608771	DAWSON CO.	DAWSONVILLE	07/04/1997	1845	Thunderstorm Wind	0	0	2000	0
5609253	DAWSON CO.	JUNO	07/28/1997	2230	Thunderstorm Wind	0	0	125000	15000
5639871	DAWSON CO.	JUNO	04/17/1998	50	Thunderstorm Wind	0	0	2000	0
5656792	DAWSON CO.	DAWSONVILLE	07/20/1998	1344	Thunderstorm Wind	0	0	2000	0
5694267	DAWSON CO.	DAWSONVILLE	05/07/1999	1800	Thunderstorm Wind	0	0	500	0
5694650	DAWSON CO.	DAWSONVILLE	05/23/1999	1830	Thunderstorm Wind	0	0	500	0
5707842	DAWSON CO.	DAWSONVILLE	07/21/1999	1530	Thunderstorm Wind	0	0	200	0







5707854	DAWSON CO.	JUNO	07/22/1999	1635	Thunderstorm Wind	0	0	1000	0
5148436	DAWSON CO.	DAWSONVILLE	05/25/2000	1623	Thunderstorm Wind	0	0	500	0
5155322	DAWSON CO.	DAWSONVILLE	07/23/2000	1226	Thunderstorm Wind	0	0	70000	0
5232312	DAWSON CO.	DAWSONVILLE	02/16/2001	1900	Thunderstorm Wind	0	0	5000	0
5255358	DAWSON CO.	DAWSONVILLE	06/04/2001	2030	Thunderstorm Wind	0	0	5000	0
5290912	DAWSON CO.	DAWSONVILLE	05/13/2002	1449	Thunderstorm Wind	0	0	2000	0
5308943	DAWSON CO.	DAWSONVILLE	07/01/2002	1750	Thunderstorm Wind	0	0	0	0
5362028	DAWSON CO.	DAWSONVILLE	05/07/2003	217	Thunderstorm Wind	0	0	3000	0
5334889	DAWSON CO.	DAWSONVILLE	07/22/2003	1300	Thunderstorm Wind	0	0	3000	0
5415008	DAWSON CO.	DAWSONVILLE	07/14/2004	41	Thunderstorm Wind	0	0	2000	0
5415180	DAWSON CO.	LANDRUM	07/14/2004	1645	Thunderstorm Wind	0	0	1000	0
5428980	DAWSON CO.	COUNTYWIDE	11/24/2004	1027	Thunderstorm Wind	0	0	15000	0
5432565	DAWSON CO.	DAWSONVILLE	12/09/2004	630	Thunderstorm Wind	0	0	250	0
5435353	DAWSON CO.	AMICALOLA	01/13/2005	1650	Thunderstorm Wind	0	0	20000	0
5447960	DAWSON CO.	AMICALOLA	04/22/2005	1210	Thunderstorm Wind	0	0	3000	0
5468171	DAWSON CO.	DAWSONVILLE	07/02/2005	1421	Thunderstorm Wind	0	0	60000	0
5514744	DAWSON CO.	JUNO	06/25/2006	1001	Thunderstorm Wind	0	0	1000	0
5531257	DAWSON CO.	DAWSONVILLE	08/04/2006	1820	Thunderstorm Wind	0	0	750	0
27010	DAWSON CO.	AMICALOLA	04/04/2007	45	Thunderstorm Wind	0	0	0	0
31247	DAWSON CO.	JUNO	05/12/2007	1358	Thunderstorm Wind	0	0	6000	0
39487	DAWSON CO.	DAWSONVILLE	06/11/2007	1530	Thunderstorm Wind	0	0	1000	0
47720	DAWSON CO.	DAWSONVILLE	07/01/2007	1220	Thunderstorm Wind	0	0	50000	0
94742	DAWSON CO.	DAWSONVILLE	04/11/2008	1839	Thunderstorm Wind	0	0	100000	0
131361	DAWSON CO.	LUMPKIN	08/07/2008	1429	Thunderstorm Wind	0	0	5000	0
151305	DAWSON CO.	DAWSONVILLE	02/11/2009	1730	Thunderstorm Wind	0	0	1000	0
195888	DAWSON CO.	MC KEE	09/09/2009	1650	Thunderstorm Wind	0	0	2000	0
246284	DAWSON CO.	DAWSONVILLE	06/28/2010	1951	Thunderstorm Wind	0	0	3000	0
251113	DAWSON CO.	BRIGHT	07/26/2010	1359	Thunderstorm Wind	0	1	25000	0
285023	DAWSON CO.	JUNO	02/28/2011	1644	Thunderstorm Wind	0	0	0	0
293132	DAWSON CO.	JUNO	03/26/2011	2235	Thunderstorm Wind	0	0	25000	0
306605	DAWSON CO.	DAWSONVILLE	04/27/2011	2249	Thunderstorm Wind	0	0	10000	0
314566	DAWSON CO.	LUMPKIN	05/26/2011	1650	Thunderstorm Wind	0	0	2000	0
			· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		







326142	DAWSON CO.	JOHNTOWN	06/18/2011	1631	Thunderstorm Wind	0	0	15000	0
340910	DAWSON CO.	AMICALOLA	08/07/2011	1705	Thunderstorm Wind	0	0	25000	0
404733	DAWSON CO.	LUMPKIN	08/10/2012	2100	Thunderstorm Wind	0	0	500	0
404735	DAWSON CO.	HUBBARDSVILL E	08/10/2012	2105	Thunderstorm Wind	0	0	1000	0
496345	DAWSON CO.	DAWSONVILLE	01/11/2014	755	Thunderstorm Wind	0	0	500	0
518607	DAWSON CO.	DAWSONVILLE	05/14/2014	1920	Thunderstorm Wind	0	0	750	0
538038	DAWSON CO.	LUMPKIN	08/20/2014	1254	Thunderstorm Wind	0	0	1500	0
547156	DAWSON CO.	MC KEE	10/14/2014	540	Thunderstorm Wind	0	0	5000	0
591086	DAWSON CO.	AMICALOLA	06/24/2015	1745	Thunderstorm Wind	0	0	1000	0
591242	DAWSON CO.	AFTON	06/26/2015	1615	Thunderstorm Wind	0	0	6000	0
594561	DAWSON CO.	DAWSONVILLE	07/13/2015	1430	Thunderstorm Wind	0	0	3000	0
598808	DAWSON CO.	JUNO	08/10/2015	1536	Thunderstorm Wind	0	0	10000	0
690060	DAWSON CO.	JUNO	03/21/2017	1914	Thunderstorm Wind	0	0	40000	0
704775	DAWSON CO.	JOHNTOWN	06/23/2017	1806	Thunderstorm Wind	0	0	1000	0
721064	DAWSON CO.	DAWSONVILLE	09/05/2017	1740	Thunderstorm Wind	0	0	20000	0
750474	DAWSON CO.	BARRETTSVILLE	05/31/2018	1657	Thunderstorm Wind	0	0	1000	0
764207	DAWSON CO.	SILVER CITY	06/22/2018	1650	Thunderstorm Wind	0	0	7000	0
769582	DAWSON CO.	JOHNTOWN	07/06/2018	1320	Thunderstorm Wind	0	0	20000	0
776790	DAWSON CO.	AMICALOLA	07/21/2018	230	Thunderstorm Wind	0	0	25000	0
777568	DAWSON CO.	EMMA	07/21/2018	405	Thunderstorm Wind	0	0	200000	0
837752	DAWSON CO.	HUBBARDSVILL E	05/04/2019	1220	Thunderstorm Wind	0	0	5000	0
837764	DAWSON CO.	AFTON	05/11/2019	515	Thunderstorm Wind	0	0	8000	0
841958	DAWSON CO.	HUBBARDSVILL E	06/22/2019	20	Thunderstorm Wind	0	0	8000	0
842016	DAWSON CO.	JOHNTOWN	06/22/2019	2030	Thunderstorm Wind	0	0	20000	0
875839	DAWSON CO.	HUBBARDSVILL E	01/11/2020	1752	Thunderstorm Wind	0	0	2000	0
893340	DAWSON CO.	LUMPKIN	04/13/2020	118	Thunderstorm Wind	0	0	25000	0
898746	DAWSON CO.	JOHNTOWN	05/04/2020	2355	Thunderstorm Wind	0	0	7000	0
898758	DAWSON CO.	AFTON	05/05/2020	1741	Thunderstorm Wind	0	0	5000	0
899560	DAWSON CO.	AFTON	06/09/2020	1555	Thunderstorm Wind	0	0	50000	0
910984	DAWSON CO.	LUMPKIN	08/03/2020	1405	Thunderstorm Wind	0	0	30000	0
929267	DAWSON CO.	DAWSONVILLE	11/11/2020	2236	Thunderstorm Wind	0	0	10000	0
963380	DAWSON CO.	AFTON	05/04/2021	1200	Thunderstorm Wind	0	0	8000	0







963727	DAWSON CO.	LUMPKIN	06/14/2021	1346	Thunderstorm Wind	0	0	15000	0
1042884	DAWSON CO.	JOHNTOWN	06/14/2022	1228	Thunderstorm Wind	0	0	1000	0
1051303	DAWSON CO.	MC KEE	07/13/2022	1320	Thunderstorm Wind	0	0	4000	0
1051304	DAWSON CO.	DAWSONVILLE	07/13/2022	1324	Thunderstorm Wind	0	0	0	0
1091621	DAWSON CO.	EMMA	03/03/2023	1629	Thunderstorm Wind	0	0	1000	0
1095608	DAWSON CO.	LUMPKIN	04/01/2023	645	Thunderstorm Wind	0	0	0	0
1118749	DAWSON CO.	BARRETTSVILLE	07/20/2023	1543	Thunderstorm Wind	0	0	2000	0
1118762	DAWSON CO.	AFTON	07/20/2023	1632	Thunderstorm Wind	0	0	5000	0
1118804	DAWSON CO.	HUBBARDSVILL E	07/20/2023	1640	Thunderstorm Wind	0	0	1000	0
1118803	DAWSON CO.	MC KEE	07/20/2023	1650	Thunderstorm Wind	0	0	50000	0
1122386	DAWSON CO.	LUMPKIN	07/28/2023	1630	Thunderstorm Wind	0	0	2000	0

Winter Storms

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5536301	DAWSON (ZONE)		01/06/1996	1500	Winter Storm	0	0	0	0
5536317	DAWSON (ZONE)		02/02/1996	1000	Winter Storm	0	0	5000	0
5167342	DAWSON (ZONE)		12/17/2000	730	Winter Storm	0	0	0	0
5167930	DAWSON (ZONE)		12/19/2000	0	Winter Storm	0	0	0	0
5386123	DAWSON (ZONE)		02/26/2004	0	Winter Storm	0	0	0	0
5435644	DAWSON (ZONE)		01/28/2005	2000	Winter Storm	0	0	250000	0
496486	DAWSON (ZONE)		01/28/2014	1200	Winter Storm	0	0	0	0
565848	DAWSON (ZONE)		02/25/2015	1400	Winter Storm	0	0	0	0
612058	DAWSON (ZONE)		01/22/2016	0	Winter Storm	0	0	0	0
617710	DAWSON (ZONE)		03/03/2016	1330	Winter Storm	0	0	0	0
728158	DAWSON (ZONE)		12/08/2017	1000	Winter Storm	0	0	0	0
799869	DAWSON (ZONE)		12/08/2018	2300	Winter Storm	0	0	0	0
876317	DAWSON (ZONE)		02/08/2020	800	Winter Storm	0	0	0	0

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5679396	DAWSON (ZONE)		01/31/1999	1500	Winter Weather	0	0	0	0
5680347	DAWSON (ZONE)		02/23/1999	1100	Winter Weather	0	0	0	0
5230842	DAWSON (ZONE)		01/20/2001	1200	Winter Weather	0	0	0	0







5340919	DAWSON (ZONE)	02/06/2003	1500	Winter Weather	0	0	0	0
5430931	DAWSON (ZONE)	12/19/2004	1700	Winter Weather	0	0	0	0
5447745	DAWSON (ZONE)	04/02/2005	1000	Winter Weather	0	0	0	0
5491190	DAWSON (ZONE)	02/06/2006	400	Winter Weather	0	0	0	0
5491086	DAWSON (ZONE)	02/12/2006	0	Winter Weather	0	0	0	0
5491090	DAWSON (ZONE)	02/18/2006	1200	Winter Weather	0	0	0	0
73437	DAWSON (ZONE)	01/16/2008	2100	Winter Weather	0	0	0	0
74961	DAWSON (ZONE)	01/19/2008	1200	Winter Weather	0	0	0	0
76237	DAWSON (ZONE)	01/22/2008	900	Winter Weather	0	0	0	0
86310	DAWSON (ZONE)	03/08/2008	600	Winter Weather	0	0	0	0
143423	DAWSON (ZONE)	12/01/2008	630	Winter Weather	0	0	0	0
216449	DAWSON (ZONE)	01/07/2010	1600	Winter Weather	0	0	0	0
216437	DAWSON (ZONE)	02/04/2010	1300	Winter Weather	0	0	0	0
216815	DAWSON (ZONE)	02/12/2010	1430	Winter Weather	0	0	0	0
272943	DAWSON (ZONE)	12/12/2010	1200	Winter Weather	0	0	0	0
273904	DAWSON (ZONE)	12/15/2010	1925	Winter Weather	0	0	0	0
284726	DAWSON (ZONE)	02/03/2011	1630	Winter Weather	0	0	0	0
285832	DAWSON (ZONE)	02/09/2011	2200	Winter Weather	0	0	0	0
355878	DAWSON (ZONE)	11/29/2011	600	Winter Weather	0	0	0	0
549202	DAWSON (ZONE)	11/01/2014	0	Winter Weather	0	0	0	0
565503	DAWSON (ZONE)	02/20/2015	1500	Winter Weather	0	0	0	0
613681	DAWSON (ZONE)	01/20/2016	600	Winter Weather	0	0	0	0
614320	DAWSON (ZONE)	02/15/2016	200	Winter Weather	0	0	0	0
668168	DAWSON (ZONE)	01/06/2017	1700	Winter Weather	0	0	0	0
733723	DAWSON (ZONE)	01/16/2018	1800	Winter Weather	0	0	0	0
932951	DAWSON (ZONE)	01/07/2021	1300	Winter Weather	0	0	0	0
5491190	DAWSON (ZONE)	02/06/2006	400	Winter Weather	0	0	0	0
5491086	DAWSON (ZONE)	02/12/2006	0	Winter Weather	0	0	0	0
5491090	DAWSON (ZONE)	02/18/2006	1200	Winter Weather	0	0	0	0
73437	DAWSON (ZONE)	01/16/2008	2100	Winter Weather	0	0	0	0

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5580629	DAWSON (ZONE)		01/11/1996	1600	Heavy Snow	0	0	0	0
5547841	DAWSON (ZONE)		03/20/1996	1600	Heavy Snow	0	0	0	0







5166886	DAWSON (ZONE)	12/03/2000	500	Heavy Snow	0	0	0	0
5276910	DAWSON (ZONE)	01/02/2002	600	Heavy Snow	0	0	0	0
5338421	DAWSON (ZONE)	01/23/2003	0	Heavy Snow	0	0	0	0
15907	DAWSON (ZONE)	02/01/2007	400	Heavy Snow	0	0	0	0
219614	DAWSON (ZONE)	03/02/2010	600	Heavy Snow	0	0	0	0
275124	DAWSON (ZONE)	12/25/2010	1200	Heavy Snow	0	0	0	0
280322	DAWSON (ZONE)	01/09/2011	2100	Heavy Snow	0	0	0	0
430482	DAWSON (ZONE)	03/06/2013	300	Heavy Snow	0	0	0	0
501771	DAWSON (ZONE)	02/11/2014	700	Heavy Snow	0	0	0	0

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5586878	DAWSON (ZONE)		01/08/1997	1900	Ice Storm	0	0	1000	0
5670066	DAWSON (ZONE)		12/23/1998	1200	Ice Storm	0	0	0	0
5670068	DAWSON (ZONE)		12/23/1998	1200	Ice Storm	0	0	0	0
5679307	DAWSON (ZONE)		01/02/1999	1800	Ice Storm	0	0	3000	0
5127778	DAWSON (ZONE)		01/22/2000	1300	Ice Storm	0	0	980000	0
5128341	DAWSON (ZONE)		01/28/2000	1900	Ice Storm	0	0	32790	0
5326324	DAWSON (ZONE)		12/04/2002	1400	Ice Storm	0	0	0	0
5384191	DAWSON (ZONE)		01/25/2004	500	Ice Storm	0	0	10000	0
5483357	DAWSON (ZONE)		12/15/2005	0	Ice Storm	0	0	15000	0
213193	DAWSON (ZONE)		01/29/2010	2100	Ice Storm	0	0	0	0
423770	DAWSON (ZONE)		01/25/2013	700	Ice Storm	0	0	0	0
565457	DAWSON (ZONE)		02/16/2015	1400	Ice Storm	0	0	0	0
5586878	DAWSON (ZONE)		01/08/1997	1900	Ice Storm	0	0	1000	0

Tornado

EVENT_ ID	CZ_NAME _STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN _TIME	EVENT_TYPE	TOR_F_ SCALE	DEATHS_ DIRECT	INJURIES _DIRECT	DAMAGE_ PROPERTY _NUM	DAMAGE_ CROPS _NUM
9993549	DAWSON CO.		04/03/1974	1845	Tornado	F4	5	13	2500000	0
5321962	DAWSON CO.	JUNO	11/11/2002	220	Tornado	F2	0	3	200000	0

Drought

EVENT_	CZ_NAME_	BEGIN_	BEGIN_	BEGIN_	EVENT_TYPE	DEATHS_	INJURIES_	DAMAGE_	DAMAGE_
ID	STR	LOCATION	DATE	TIME		DIRECT	DIRECT	PROPERTY_NUM	CROPS_NUM
5613275	DAWSON (ZONE)		09/01/1997	0	Drought	0	0	0	0







5693895	DAWSON (ZONE)	05/01/1999	0	Drought	0	0	0	0
5713452	DAWSON (ZONE)	08/01/1999	0	Drought	0	0	0	0
5127164	DAWSON (ZONE)	02/01/2000	0	Drought	0	0	0	0
5147510	DAWSON (ZONE)	05/01/2000	0	Drought	0	0	0	0
5152118	DAWSON (ZONE)	06/01/2000	0	Drought	0	0	0	1260000
5173375	DAWSON (ZONE)	07/01/2000	0	Drought	0	0	0	0
5160368	DAWSON (ZONE)	10/01/2000	0	Drought	0	0	0	0
5268697	DAWSON (ZONE)	10/01/2001	0	Drought	0	0	0	0
5269999	DAWSON (ZONE)	11/01/2001	0	Drought	0	0	0	0
5274234	DAWSON (ZONE)	12/01/2001	0	Drought	0	0	0	0
5284463	DAWSON (ZONE)	04/01/2002	0	Drought	0	0	0	0
5316932	DAWSON (ZONE)	08/01/2002	0	Drought	0	0	0	0
5340174	DAWSON (ZONE)	01/01/2003	0	Drought	0	0	0	0
5389938	DAWSON (ZONE)	03/01/2004	0	Drought	0	0	0	0
36500	DAWSON (ZONE)	05/01/2007	0	Drought	0	0	0	0
66835	DAWSON (ZONE)	09/01/2007	0	Drought	0	0	0	0
62679	DAWSON (ZONE)	10/01/2007	0	Drought	0	0	0	0
66932	DAWSON (ZONE)	11/01/2007	0	Drought	0	0	0	0
68098	DAWSON (ZONE)	12/01/2007	0	Drought	0	0	0	0
349392	DAWSON (ZONE)	09/01/2011	0	Drought	0	0	0	0
670792	DAWSON (ZONE)	06/01/2016	0	Drought	0	0	0	0
670874	DAWSON (ZONE)	07/01/2016	0	Drought	0	0	0	0
670938	DAWSON (ZONE)	08/01/2016	0	Drought	0	0	0	0
671282	DAWSON (ZONE)	09/01/2016	0	Drought	0	0	0	0
671370	DAWSON (ZONE)	10/01/2016	0	Drought	0	0	0	0
672031	DAWSON (ZONE)	11/01/2016	0	Drought	0	0	0	0
672142	DAWSON (ZONE)	12/01/2016	0	Drought	0	0	0	0
672242	DAWSON (ZONE)	01/01/2017	0	Drought	0	0	0	0
677284	DAWSON (ZONE)	02/01/2017	0	Drought	0	0	0	0
690354	DAWSON (ZONE)	03/01/2017	0	Drought	0	0	0	0
690413	DAWSON (ZONE)	04/01/2017	0	Drought	0	0	0	0
701359	DAWSON (ZONE)	05/01/2017	0	Drought	0	0	0	0
857712	DAWSON (ZONE)	09/24/2019	0	Drought	0	0	0	0
862816	DAWSON (ZONE)	10/01/2019	0	Drought	0	0	0	0







863003	DAWSON (ZONE)		11/01/2019	0	Drought	0	0	0	0
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Flooding

EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5605344	DAWSON (ZONE)		02/27/1997	2200	Flood	0	0	0	0
5441168	DAWSON (ZONE)		02/21/2005	1730	Flood	0	0	5000	0
200817	DAWSON CO.	HUBBARDSVILLE	09/21/2009	1355	Flood	0	0	10000	0

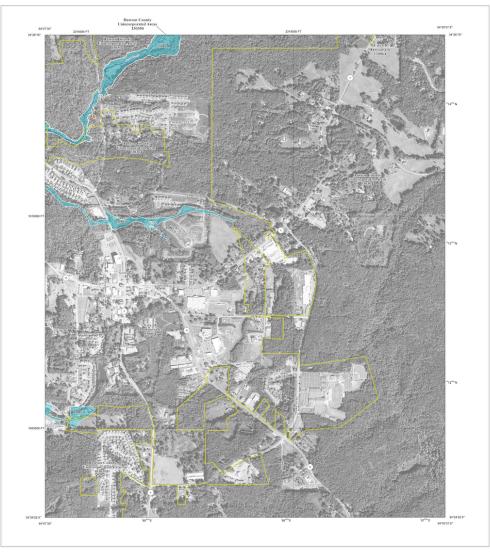
EVENT_ ID	CZ_NAME_ STR	BEGIN_ LOCATION	BEGIN_ DATE	BEGIN_ TIME	EVENT_TYPE	DEATHS_ DIRECT	INJURIES_ DIRECT	DAMAGE_ PROPERTY_NUM	DAMAGE_ CROPS_NUM
5578103	HABERSHA M (ZONE)		12/01/1996	1120	Flash Flood	0	0	0	0
5639947	DAWSON CO.	JUNO	04/17/1998	300	Flash Flood	0	0	10000	0
5316275	DAWSON CO.	DAWSONVILLE	09/21/2002	1530	Flash Flood	0	0	50000	0
5334753	DAWSON CO.	WEST PORTION	07/10/2003	830	Flash Flood	0	0	25000	0
5334754	DAWSON CO.	WEST PORTION	07/10/2003	1400	Flash Flood	0	0	0	1000
5424879	DAWSON CO.	COUNTYWIDE	09/16/2004	1845	Flash Flood	0	0	250000	0
5514743	DAWSON CO.	NORTHEAST PORTION	06/25/2006	1130	Flash Flood	0	0	2000	0
126039	DAWSON CO.	AFTON	07/09/2008	200	Flash Flood	0	0	5000	0
446279	DAWSON CO.	LUMPKIN	05/19/2013	400	Flash Flood	0	0	50000	0
456687	DAWSON CO.	AMICALOLA	07/03/2013	1445	Flash Flood	0	0	5000	0
469084	DAWSON CO.	BRIGHT	08/07/2013	410	Flash Flood	0	0	5000	0
469096	DAWSON CO.	HUBBARDSVILLE	08/07/2013	636	Flash Flood	0	0	5000	0
471051	DAWSON CO.	JUNO	08/22/2013	1630	Flash Flood	0	0	25000	0
881781	DAWSON CO.	BRIGHT	02/06/2020	1133	Flash Flood	0	0	50000	0
881782	DAWSON CO.	BRIGHT	02/06/2020	1133	Flash Flood	0	0	0	0
926127	DAWSON CO.	BRIGHT	10/10/2020	2216	Flash Flood	0	0	0	0
926129	DAWSON CO.	DAWSONVILLE	10/10/2020	2216	Flash Flood	0	0	0	0
926126	DAWSON CO.	BRIGHT	10/10/2020	2216	Flash Flood	0	0	0	0

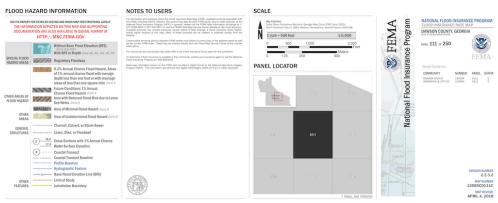






Dawsonville FIRM Map











Appendix E. 3A Worksheets

GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Drought

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	lumber of Structu	ures		Value of Structures		Number of People			
Type of Structure	# in Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	# in Community or	# in Hazard	% in Hazard	
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area	
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%	
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%	
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%	
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%	
Religious/ Non-										
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%	
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%	
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%	
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%	
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%	

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Earthquake

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Structi	ures		Value of Structures			Number of Peopl	е
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Extreme Temperatures

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a

Jurisdiction: Dawson County

Hazard: Flooding

Inventory of Assets

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	10,541	97	0.920%	1,798,894,055	4,410,669	0.245%	23,078	212	1%
Commercial	0	0	0.000%	0	0	0.000%	0	0	0%
Industrial	103	3	2.913%	24,792,533	110,924	0.447%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	0	0	0.000%	0	0	0.000%	0	0	0%
Government	0	0	0.000%	0	0	0.000%	0	0	0%
Education	0	0	0.000%	0	0	0.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	10,644	100	0.939%	1,823,686,588	4,521,593	0.248%	23,078	212	1%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

- 1. Do you know where the greatest damages may occur in your area? Y
- 2. Do you know whether your critical facilities will be operational after a hazard event?
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? Y
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a

Jurisdiction: Dawsonville

Hazard: Flooding

Inventory of Assets

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	1,355	18	1.328%	215,824,197	534,482	0.248%	3,720	49	1%
Commercial	119	1	0.840%	20,959,986	5,291	0.025%	0	0	0%
Industrial	0	0	0.000%	0	0	0.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	0	0	0.000%	0	0	0.000%	0	0	0%
Government	0	0	0.000%	0	0	0.000%	0	0	0%
Education	0	0	0.000%	0	0	0.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	1,474	19	1.289%	236,784,183	539,773	0.228%	3,720	49	1%

Task B. Determine whether (and where) you want to collect additional inventory data.

Y N

- 1. Do you know where the greatest damages may occur in your area? Y
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? Y
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Thunderstorms

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Tornadoes

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Tropical Cyclone

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Wildfire

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







GEMA/HS Worksheet #3a Inventory of Assets

Jurisdiction: Dawson County (Including Dawsonville)

Hazard: Winter Storms

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Number of Structures				Value of Structures		Number of People		
	# in						# in		
Type of Structure	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community or	# in Hazard	% in Hazard
(Occupancy Class)	of State	Area	Area	State	\$ in Hazard Area	Area	State	Area	Area
Residential	11,896	11,896	100.000%	2,014,710,000	2,014,710,000	100.000%	26,798	26,798	100%
Commercial	607	607	100.000%	124,304,000	124,304,000	100.000%	0	0	0%
Industrial	135	135	100.000%	28,883,000	28,883,000	100.000%	0	0	0%
Agricultural	0	0	0.000%	0	0	0.000%	0	0	0%
Religious/ Non-									
profit	37	37	100.000%	11,532,000	11,532,000	100.000%	0	0	0%
Government	34	34	100.000%	33,540,000	33,540,000	100.000%	0	0	0%
Education	17	17	100.000%	56,215,000	56,215,000	100.000%	0	0	0%
Utilities	0	0	0.000%	0	0	0.000%	0	0	0%
Total	12,726	12,726	100.000%	2,269,184,000	2,269,184,000	100.000%	26,798	26,798	100%

Task B. Determine whether (and where) you want to collect additional inventory data.

- 1. Do you know where the greatest damages may occur in your area? N
- 2. Do you know whether your critical facilities will be operational after a hazard event? Y
- 3. Is there enough data to determine which assets are subject to the greatest potential damages? N
- 4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards? Y
- 5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards? Y
- 6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence? Y
- 7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives? N







Appendix F. Hazard Risk Analyses



Hazard Risk Analyses Supplement to the Dawson County Joint Hazard Mitigation Plan



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Introduction

The Federal Disaster Mitigation Act of 2000 (DMA2K) requires state, local, and tribal governments to develop and maintain a mitigation plan to be eligible for certain federal disaster assistance and hazard mitigation funding programs.

Mitigation seeks to reduce a hazard's impacts, which may include loss of life, property damage, disruption to local and regional economies, and the expenditure of public and private funds for recovery. Sound mitigation must be based on a sound risk assessment that quantifies the potential losses of a disaster by assessing the vulnerability of buildings, infrastructure, and people.

In recognition of the importance of planning in mitigation activities, FEMA Hazus-MH, a powerful disaster risk assessment tool based on geographic information systems (GIS). This tool enables communities of all sizes to predict estimated losses from floods, hurricanes, earthquakes, and other related phenomena and to measure the impact of various mitigation practices that might help reduce those losses.

In 2023, the Georgia Department of Emergency Management partnered with the Carl Vinson Institute of Government at the University of Georgia to develop a detailed risk assessment focused on defining hurricane, riverine flood, and tornado risks in Dawson County, Georgia. This assessment identifies the characteristics and potential consequences of the disaster, how much of the community could be affected by the disaster, and the impact on community assets.

Risk Assessment Process Overview

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Dawson County. The Hazus-MH application includes default data for every county in the US. This Hazus-MH data was derived from a variety of national sources and in some cases the data are also several years old. Whenever possible, using local provided data is preferred. Dawson County provided building inventory information from the county's property tax assessment system. This section describes the changes made to the default Hazus-MH inventory and the modeling parameters used for each scenario.

County Inventory Changes

The default Hazus-MH site-specific point inventory was updated using data compiled from the Georgia Emergency Management Agency (GEMA). The default Hazus-MH aggregate inventory (General Building Stock) was also updated prior to running the scenarios. Reported losses reflect the updated data sets.

General Building Stock Updates

General Building Stock (GBS) is an inventory category that consists of aggregated data (grouped by census geography — tract or block). Hazus-MH generates a combination of site-specific and aggregated loss estimates based on the given analysis and user input.

The GBS records for Dawson County were replaced with data derived from parcel and property assessment data obtained from Dawson County. The county provided property assessment data was current as of November 2023 and the parcel data current as of November 2023. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary; then, each parcel point was linked to an assessor record based upon matching parcel numbers. The parcel assessor match-rate for Dawson County is 89.2%. The

generated building inventory represents the approximate locations (within a parcel) of structures. The building inventory was aggregated by census block. Both the tract and block tables were updated. Table 1 shows the results of the changes to the GBS tables by occupancy class.

Table 1: GBS Building Exposure Updates by Occupancy Class*

General Occupancy	Default Hazus-MH Count	Updated Count	Default Hazus-MH Exposure	Updated Exposure
Agricultural	0	0	\$0	\$0
Commercial	331	607	\$78,044,000	\$124,304,000
Education	12	17	\$37,983,000	\$56,215,000
Government	15	34	\$9,058,000	\$33,540,000
Industrial	131	135	\$35,183,000	\$28,883,000
Religious	25	37	\$14,761,000	\$11,532,000
Residential	9,041	11,896	\$1,463,597,000	\$2,014,710,000
Total	9,555	12,726	\$1,638,626,000	\$2,269,184,000

^{*}The exposure values represent the total number and replacement cost for all Dawson County Buildings

For Dawson County, the updated GBS was used to calculate hurricane wind losses. The flood losses and tornado losses were calculated from building inventory modeled in Hazus-MH as User-Defined Facility

(UDF)¹, or site-specific points. Figure 1 shows the distribution of buildings as points based on the county provided data.

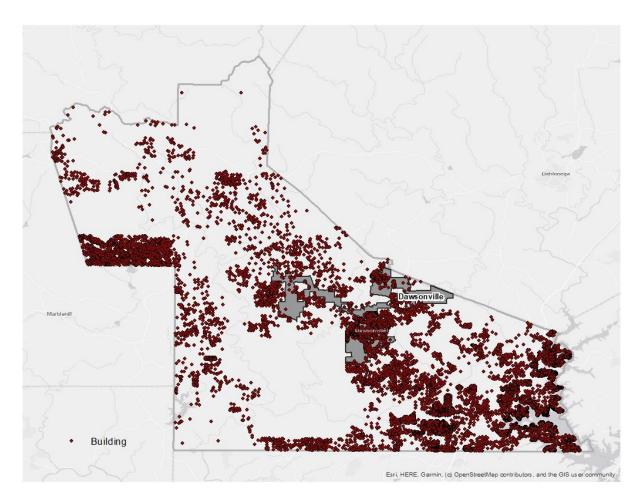


Figure 1: Dawson County Overview

Essential Facility Updates

The default Hazus-MH essential facility data was updated to reflect improved information available in the Georgia Mitigation Information System (GMIS) as of November 2023. For these risk analyses, only GMIS data for buildings that Hazus-MH classified as Essential Facilities was integrated into Hazus-MH because the application provides specialized reports for these five facilities. Essential Facility inventory was updated for the analysis conducted for this report. The following table summarizes the counts and exposures, where available, by Essential Facility classification of the updated data.

Essential facilities include:

- Care facilities
- EOCs
- Fire stations
- Police stations
- Schools

¹ The UDF inventory category in Hazus-MH allows the user to enter site-specific data in place of GBS data.

Table 2: Updated Essential Facilities

Classification	Updated Count	Updated Exposure	
	Dawsonville		
EOC	1	\$2,561,000	
Care	0	\$0	
Fire	1	\$175,000	
Police	2	\$8,932,000	
School	3	\$40,353,000	
Total	7	\$52,021,000	
Ur	incorporated Areas of Dawso	on County	
EOC	0	\$0	
Care	4	\$11,757,000	
Fire	7	\$5,133,000	
Police	0	\$0	
School	4	\$28,009,000	
Total	15	\$44,899,000	

Assumptions and Exceptions

Hazus-MH loss estimates may be impacted by certain assumptions and process variances made in this risk assessment.

- The Dawson County analysis used Hazus-MH Version 2.2 SP1, which was released by FEMA in May 2015.
- County provided parcel and property assessment data may not fully reflect all buildings in the county. For example, some counties do not report not-for-profit buildings such as government buildings, schools and churches in their property assessment data. This data was used to update the General Building Stock as well as the User Defined Facilities applied in this risk assessment.
- Georgia statute requires that the Assessor's Office assign a code to all of the buildings on a parcel based on the buildings primary use. If there is a residential or a commercial structure on a parcel and there are also agricultural buildings on the same parcel Hazus-MH looks at the residential and commercial "primary" structures first and then combines the value of all secondary structures on that parcel with the value of the primary structure. The values and building counts are still accurate but secondary structures are accounted for under the same classification as the primary structure. Because of this workflow, the only time that a parcel would show a value for an agricultural building is when there are no residential or commercial structures on the parcel thus making the agricultural building the primary structure. This is the reason that agricultural building counts and total values seem low or are nonexistent.
- GBS updates from assessor data will skew loss calculations. The following attributes were defaulted or calculated:

Foundation Type was set from Occupancy Class First Floor Height was set from Foundation Type Content Cost was calculated from Replacement Cost

- It is assumed that the buildings are located at the centroid of the parcel.
- The essential facilities extracted from the GMIS were only used in the portion of the analysis designated as essential facility damage. They were not used in the update of the General Building Stock or the User Defined Facility inventory.

The hazard models included in this risk assessment included:

- Hurricane assessment which was comprised of a wind only damage assessment.
- Flood assessment based on the 1% annual chance event that includes riverine assessments.
- Tornado assessment based on GIS modeling.

Hurricane Risk Assessment

Hazard Definition

The National Hurricane Center describes a hurricane as a tropical cyclone in which the maximum sustained wind is, at minimum, 74 miles per hour (mph)². The term hurricane is used for Northern Hemisphere tropical cyclones east of the International Dateline to the Greenwich Meridian. The term typhoon is used for Pacific tropical cyclones north of the Equator west of the International Dateline. Hurricanes in the Atlantic Ocean, Gulf of Mexico, and Caribbean form between June and November with the peak of hurricane season occurring in the middle of September. Hurricane intensities are measured using the Saffir-Simpson Hurricane Wind Scale (Table 3). This scale is a 1 to 5 categorization based on the hurricane's intensity at the indicated time.

Hurricanes bring a complex set of impacts. The winds from a hurricane produce a rise in the water level at landfall called storm surge. Storm surges produce coastal flooding effects that can be as damaging as the hurricane's winds. Hurricanes bring very intense inland riverine flooding. Hurricanes can also produce tornadoes that can add to the wind damages inland. In this risk assessment, only hurricane winds, and coastal storm surge are considered.

Table 3: Saffir-Simpson Hurricane Wind Scale

Category	Wind Speed (mph)	Damage
1	74 - 95	Very dangerous winds will produce some damage
2	96 - 110	Extremely dangerous winds will cause extensive damage
3	111 - 130	Devastating damage will occur
4	131 -155	Catastrophic damage will occur
5	> 155	Catastrophic damage will occur

The National Oceanic and Atmospheric Administration's National Hurricane Center created the HURDAT database, which contains all of the tracks of tropical systems since the mid-1800s. This database was used to document the number of tropical systems that have affected Dawson County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Dawson County but impacted the county. Note that the storms listed contain the peak sustained winds, maximum pressure and maximum attained storm strength for the entire storm duration. Since 1902, Dawson County has had 12 tropical systems within 20 miles of its county borders (Table 4).

Table 4: Tropical Systems affecting Dawson County³

			MAX	MAX	MAX
YEAR	DATE RANGE	NAME	WIND(Knots)	PRESSURE	CAT
1902	October 03 - 13	UNNAMED	104	970	H2

² National Hurricane Center (2011). "Glossary of NHC Terms." National Oceanic and Atmospheric Administration. http://www.nhc.noaa.gov/aboutgloss.shtml#h. Retrieved 2012-23-02.

³ Atlantic Oceanic and Meteorological Laboratory (2012). "Data Center." National Oceanic and Atmospheric Administration. http://www.aoml.noaa.gov/hrd/data sub/re anal.html. Retrieved 7-20-2015.

VEAD	DATE DANCE	NANAF	MAX	MAX	MAX
YEAR	DATE RANGE	NAME	WIND(Knots)	PRESSURE	CAT
1907	September 18 - 23	UNNAMED	46	0	TS
1911	August 23 - 31	UNNAMED	98	972	H2
1928	August 07 - 17	UNNAMED	92	0	H1
1959	October 06 - 09	IRENE	46	1003	TS
1977	September 03 - 09	BABE	75	1012	H1
1997	July 16 - 27	DANNY	81	1013	H1
2004	August 25 - September 10	FRANCES	144	1009	H4
2005	July 03 - 11	CINDY	75	1011	H1
2020	October 24 - 30	ZETA	115	1007	Н3
2021	August 09 - 20	FRED	63	1013	TS
2022	November 06 - 11	NICOLE	75	1005	H1

Category Definitions:

TS – Tropical storm

TD – Tropical depression

H1 – Category 1 (same format for H2, H3, and H4)

E – Extra-tropical cyclone



Figure 2: Continental United States Hurricane Strikes: 1950 to 20224

Probabilistic Hurricane Scenario

The following probabilistic wind damage risk assessment modeled a Tropical Storm with maximum winds of 64 mph.

Wind Damage Assessment

Separate analyses were performed to determine wind and hurricane storm surge related flood losses. This section describes the wind-based losses to Dawson County. Wind losses were determined from probabilistic models run for the Tropical Storm which equates to the 1% chance storm event. Figure 3 shows wind speeds for the modeled Tropical Storm.

⁴ Source: NOAA National Centers for Environmental Information

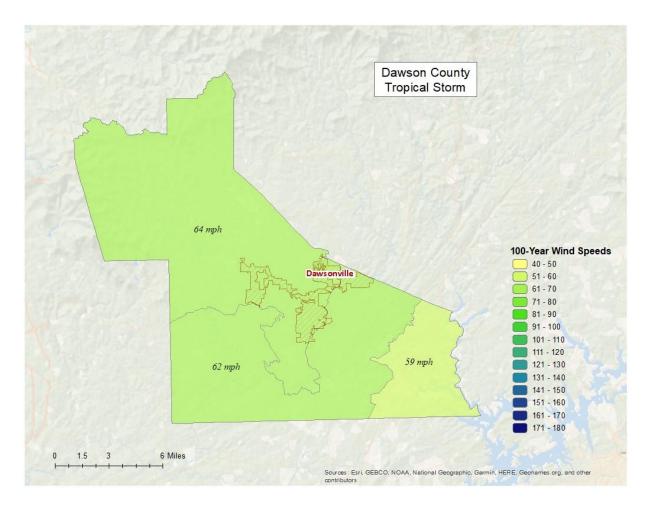


Figure 3: Wind Speeds by Storm Category

Wind-Related Building Damages

Buildings in Dawson County are vulnerable to storm events, and the cost to rebuild may have significant consequences to the community. The following table shows a summary of the results of wind-related building damage in Dawson County for the Tropical Storm (100 Year Event). The loss ratio expresses building losses as a percentage of total building replacement cost in the county. Figure 4 illustrates the building loss ratios of the modeled Tropical Storm.

Table 5: Hurricane Wind Building Damage

Classification	Number of Buildings Damaged	Total Building Damage	Total Economic Loss ⁵	Loss Ratio
Tropical Storm	3	\$378,530	\$379,540	0.02%

⁵ Includes property damage (infrastructure, contents, and inventory) as well as business interruption losses.

Note that wind damaged buildings are not reported by jurisdiction. This is due to the fact that census tract boundaries — upon which hurricane building losses are based — do not closely coincide with jurisdiction boundaries.

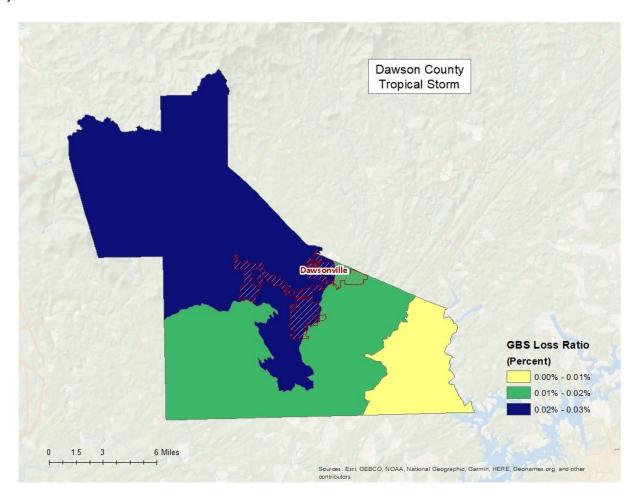


Figure 4: Hurricane Wind Building Loss Ratios

Essential Facility Losses

Essential facilities are also vulnerable to storm events, and the potential loss of functionality may have significant consequences to the community. Hazus-MH identified the essential facilities that may be moderately or severely damaged by winds. The results are compiled in Table 6.

There are 22 essential facilities in Dawson County.

Classification	Number
EOCs	1
Fire Stations	8
Care Facilities	4
Police Stations	2
Schools	7

Table 6: Wind-Damaged Essential Facility Losses

Classification	Facilities At Least Moderately Damaged > 50%	Facilities Completely Damaged > 50%	Facilities with Expected Loss of Use (< 1 day)
Tropical Storm	0	0	22

Shelter Requirements

Hazus-MH estimates the number of households evacuated from buildings with severe damage from high velocity winds as well as the number of people who will require short-term sheltering. Since the 1% chance storm event for Dawson County is a Tropical Storm, the resulting damage is not enough to displace Households or require temporary shelters as shown in the results listed in Table 7.

Table 7: Displaced Households and People

Classification	# of Displaced Households	# of People Needing Short-Term Shelter
Tropical Storm	0	0

Debris Generated from Hurricane Wind

Hazus-MH estimates the amount of debris that will be generated by high velocity hurricane winds and quantifies it into three broad categories to determine the material handling equipment needed:

- Reinforced Concrete and Steel Debris
- Brick and Wood and Other Building Debris
- Tree Debris

Different material handling equipment is required for each category of debris. The estimates of debris for this scenario are listed in Table 8. The amount of hurricane wind related tree debris that is estimated to require pick up at the public's expense is listed in the eligible tree debris column.

Table 8: Wind-Related Debris Weight (Tons)

Classification	Brick, Wood, and Other	Reinforced Concrete and Steel	Eligible Tree Debris	Other Tree Debris	Total
Tropical Storm	17	0	0	0	17

Figure 5 shows the distribution of all wind related debris resulting from a Tropical Storm. Each dot represents 1 ton of debris within the census tract in which it is located. The dots are randomly distributed within each census tract and therefore do not represent the specific location of debris sites.

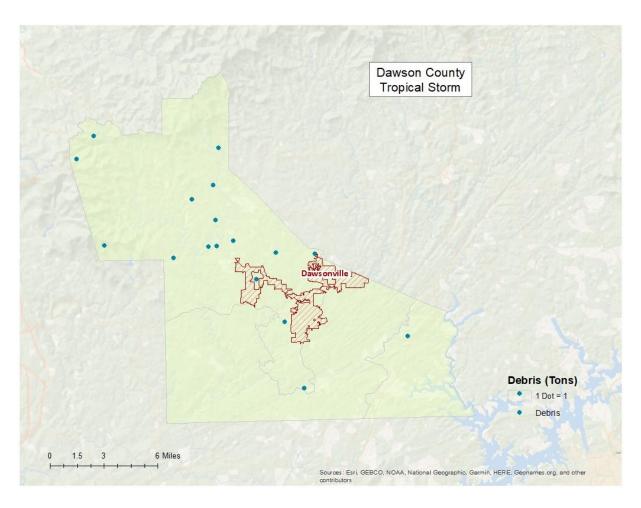


Figure 5: Wind-Related Debris Weight (Tons)

Flood Risk Assessment

Hazard Definition

Flooding is a significant natural hazard throughout the United States. The type, magnitude, and severity of flooding are functions of the amount and distribution of precipitation over a given area, the rate at which precipitation infiltrates the ground, the geometry and hydrology of the catchment, and flow dynamics and conditions in and along the river channel. Floods can be classified as one of three types: upstream floods, downstream floods, or coastal floods.

Upstream floods, also called flash floods, occur in the upper parts of drainage basins and are generally characterized by periods of intense rainfall over a short duration. These floods arise with very little warning and often result in locally intense damage, and sometimes loss of life, due to the high energy of the flowing water. Flood waters can snap trees, topple buildings, and easily move large boulders or other structures. Six inches of rushing water can upend a person; another 18 inches might carry off a car. Generally, upstream floods cause damage over relatively localized areas, but they can be quite severe in the local areas in which they occur. Urban flooding is a type of upstream flood. Urban flooding involves the overflow of storm drain systems and can be the result of inadequate drainage combined with heavy rainfall or rapid snowmelt. Upstream or flash floods can occur at any time of the year in Georgia, but they are most common in the spring and summer months.

Downstream floods, also called riverine floods, refer to floods on large rivers at locations with large upstream catchments. Downstream floods are typically associated with precipitation events that are of relatively long duration and occur over large areas. Flooding on small tributary streams may be limited, but the contribution of increased runoff may result in a large flood downstream. The lag time between precipitation and time of the flood peak is much longer for downstream floods than for upstream floods, generally providing ample warning for people to move to safe locations and, to some extent, secure some property against damage.

Coastal floods occurring on the Atlantic and Gulf coasts may be related to hurricanes or other combined offshore, nearshore, and shoreline processes. The effects of these complex interrelationships vary significantly across coastal settings, leading to challenges in the determination of the base (1-percent-annual-chance) flood for hazard mapping purposes. Land area covered by floodwaters of the base flood is identified as a Special Flood Hazard Area (SFHA).

The SFHA is the area where the National Flood Insurance Program's (NFIP) floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance applies. The owner of a structure in a high-risk area must carry flood insurance, if the owner carries a mortgage from a federally regulated or insured lender or servicer.

The Dawson County flood risk assessment analyzed at risk structures in the SFHA.

The following probabilistic risk assessment involves an analysis of a 1% annual chance riverine flood event (100-Year Flood) and a 1% annual chance coastal flood.

Riverine 1% Flood Scenario

Riverine losses were determined from the 1% flood boundaries downloaded from the FEMA Flood Map Service Center in November 2023. The flood boundaries were overlaid with the USGS 10 meter DEM

using the Hazus-MH Enhanced Quick Look tool to generate riverine depth grids. The riverine flood depth grid was then imported into Hazus-MH to calculate the riverine flood loss estimates. Figure 6 illustrates the riverine inundation boundary associated with the 1% annual chance.

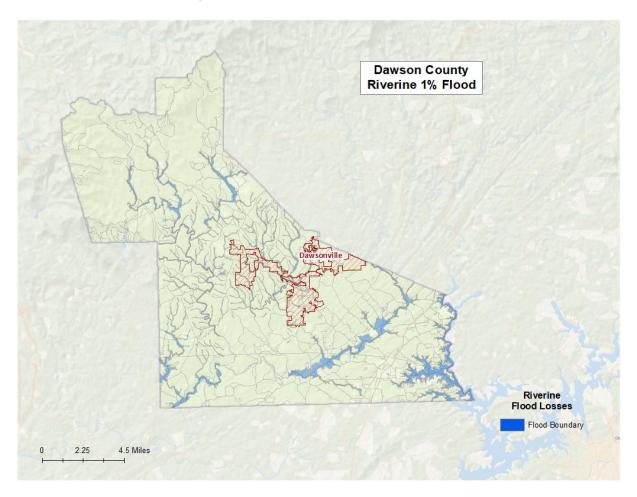


Figure 6: Riverine 1% Flood Inundation

Riverine 1% Flood Building Damages

Buildings in Dawson County are vulnerable to flooding from events equivalent to the 1% riverine flood. The economic and social impacts from a flood of this magnitude can be significant. Table 9 provides a summary of the potential flood-related building damage in Dawson County by jurisdiction that might be experienced from the 1% flood. Figure 7 maps the potential loss ratios of total building exposure to losses sustained to buildings from the 1% flood by 2010 census block and Figure 8 illustrates the relationship of building locations to the 1% flood inundation boundary.

Table 9: Dawson County Riverine 1% Building Losses

	Total Buildings in	Total Buildings Damaged in	Total Building	Total Losses to Buildings in	Loss Ratio of Exposed Buildings to Damaged Buildings in
Occupancy	the Jurisdiction	the Jurisdiction	Exposure in the Jurisdiction	the Jurisdiction	the Jurisdiction
		Da	wsonville		
Commercial	119	1	\$20,959,986	\$5,291	0.03%
Residential	1,355	18	\$215,824,197	\$534,482	0.25%
		Unir	corporated		
Industrial	103	3	\$24,792,533	\$110,924	0.45%
Residential	10,541	97	\$1,798,894,055	\$4,410,669	0.25%
		Co	unty Total		
	12,118	119	\$2,060,470,771	\$5,061,366	

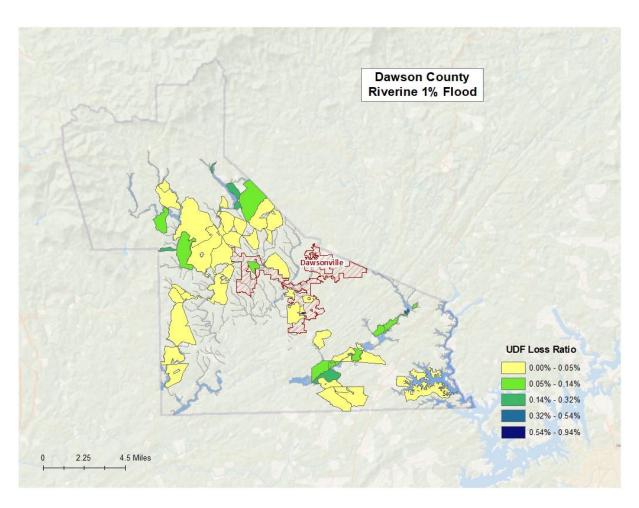


Figure 7: Dawson County Potential Loss Ratios of Total Building Exposure to Losses Sustained to Buildings from the 1% Riverine Flood by 2010 Census Block

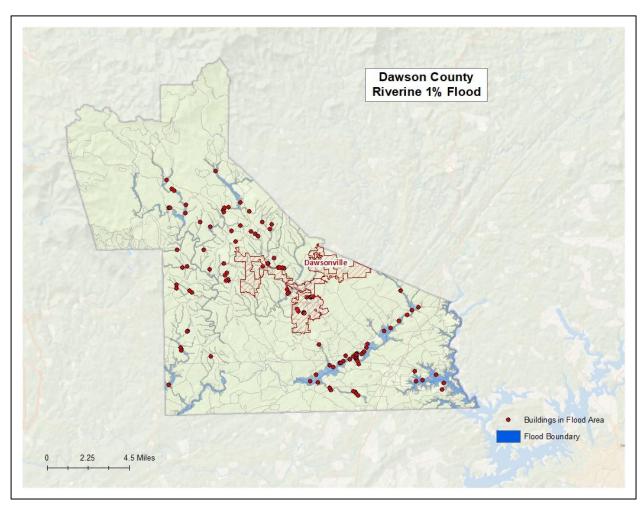


Figure 8: Dawson County Damaged Buildings in Riverine Floodplain (1% Flood)

Riverine 1% Flood Essential Facility Losses

An essential facility may encounter many of the same impacts as other buildings within the flood boundary. These impacts can include structural failure, extensive water damage to the facility and loss of facility functionality (e.g. a damaged police station will no longer be able to serve the community). The analysis identified no essential facility that were subject to damage in the Dawson County riverine 1% probability floodplain.

Riverine 1% Flood Shelter Requirements

Hazus-MH estimates that the number of households that are expected to be displaced from their homes due to riverine flooding and the associated potential evacuation. The model estimates 281 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 844 individuals, of which 368 may require short term publicly provided shelter. The results are mapped in Figure 9.

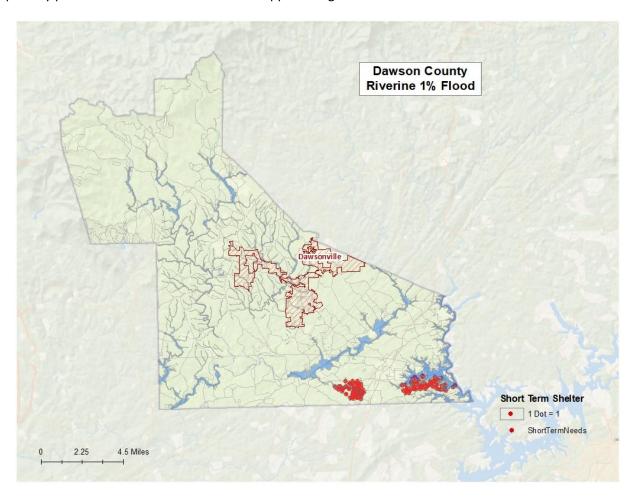


Figure 9: Riverine 1% Estimated Flood Shelter Requirements

Riverine 1% Flood Debris

Hazus-MH estimates the amount of debris that will be generated by the flood. The model breaks debris into three general categories:

- Finishes (dry wall, insulation, etc.)
- Structural (wood, brick, etc.)
- Foundations (concrete slab, concrete block, rebar, etc.)

Different types of material handling equipment will be required for each category. Debris definitions applied in Hazus-MH are unique to the Hazus-MH model and so do not necessarily conform to other definitions that may be employed in other models or guidelines.

The analysis estimates that an approximate total of 9,297 tons of debris might be generated: 1) Finishes- 2,280 tons; 2) Structural – 3,404 tons; and 3) Foundations- 3,613 tons. The results are mapped in Figure 10.

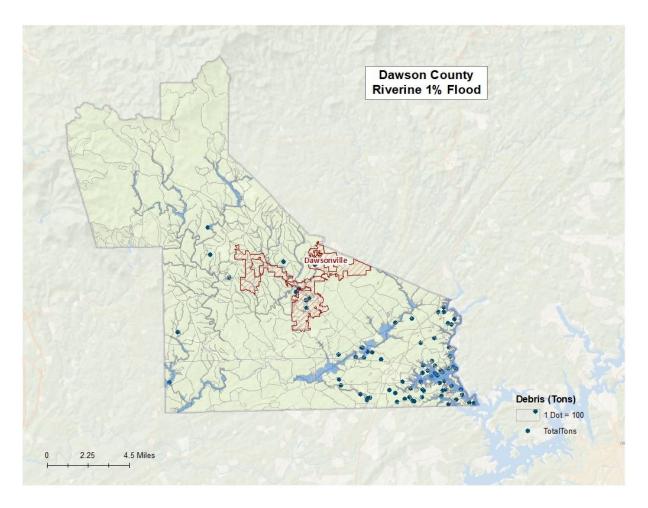


Figure 10: Riverine 1% Flood Debris Weight (Tons)

Tornado Risk Assessment

Hazard Definition

Tornadoes pose a great risk to the state of Georgia and its citizens. Tornadoes can occur at any time during the day or night. They can also happen during any month of the year. The unpredictability of tornadoes makes them one of Georgia's most dangerous hazards. Their extreme winds are violently destructive when they touch down in the region's developed and populated areas. Current estimates place the maximum velocity at about 300 miles per hour, but higher and lower values can occur. A wind velocity of 200 miles per hour will result in a wind pressure of 102.4 pounds per square foot of surface area—a load that exceeds the tolerance limits of most buildings. Considering these factors, it is easy to understand why tornadoes can be so devastating for the communities they hit.

Tornadoes are defined as violently-rotating columns of air extending from thunderstorms and cyclonic events. Funnel clouds are rotating columns of air not in contact with the ground; however, the violently-rotating column of air can reach the ground very quickly and become a tornado. If the funnel cloud picks up and blows debris, it has reached the ground and is a tornado.

Tornadoes are classified according to the Fujita tornado intensity scale. Originally introduced in 1971, the scale was modified in 2006 to better define the damage and estimated wind scale. The Enhanced Fujita Scale ranges from low intensity EFO with effective wind speeds of 65 to 85 miles per hour, to EF5 tornadoes with effective wind speeds of over 200 miles per hour. The Enhanced Fujita intensity scale is included in Table 10.

Table 10: Enhanced Fujita Tornado Rating

Fujita Number	Estimated Wind Speed	Path Width	Path Length	Description of Destruction	
EFO Gale	65-85 mph	6-17 yards	0.3-0.9 miles	Light damage, some damage to chimneys, branches broken, sign boards damaged, shallow-rooted trees blown over.	
EF1 Moderate	86-110 mph	18-55 yards	1.0-3.1 miles	Moderate damage, roof surfaces peeled off, mobile homes pushed off foundations, attached garages damaged.	
EF2 Significant	111-135 mph	56-175 yards	3.2-9.9 miles	Considerable damage, entire roofs torn from frame houses, mobile homes demolished, boxcars pushed over, large trees snapped or uprooted.	
EF3 Severe	136-165 mph	176-566 yards	10-31 miles	Severe damage, walls torn from well-constructed houses, trains overturned, most trees in forests uprooted, heavy cars thrown about.	
EF4 Devastating	166-200 mph	0.3-0.9 miles	32-99 miles	Complete damage, well-constructed houses leveled, structures with weak foundations blown off for some distance, large missiles generated.	
EF5 Incredible	> 200 mph	1.0-3.1 miles	100-315 miles	Foundations swept clean, automobiles become missiles and thrown for 100 yards or more, steel-reinforced concrete structures badly damaged.	

Source: http://www.srh.noaa.gov

Hypothetical Tornado Scenario

For this report, an EF3 tornado was modeled to illustrate the potential impacts of tornadoes of this magnitude in the county. The analysis used a hypothetical path based upon an EF3 tornado event running along the predominant direction of historical tornados (southeast to northwest). The tornado path was placed to travel through southern Dawson County. The selected widths were modeled after a re-creation of the Fujita-Scale guidelines based on conceptual wind speeds, path widths, and path lengths. There is no guarantee that every tornado will fit exactly into one of these categories. Table 11 depicts tornado path widths and expected damage.

Table 11: Tornado Path Widths and Damage Curves

Fujita Scale	Path Width (feet)	Maximum Expected Damage
EF-5	2,400	100%
EF-4	1,800	100%
EF-3	1,200	80%
EF-2	600	50%
EF-1	300	10%
EF-0	300	0%

Within any given tornado path there are degrees of damage. The most intense damage occurs within the center of the damage path, with decreasing amounts of damage away from the center. After the hypothetical path is digitized on a map, the process is modeled in GIS by adding buffers (damage zones) around the tornado path. Figure 11 describes the zone analysis.

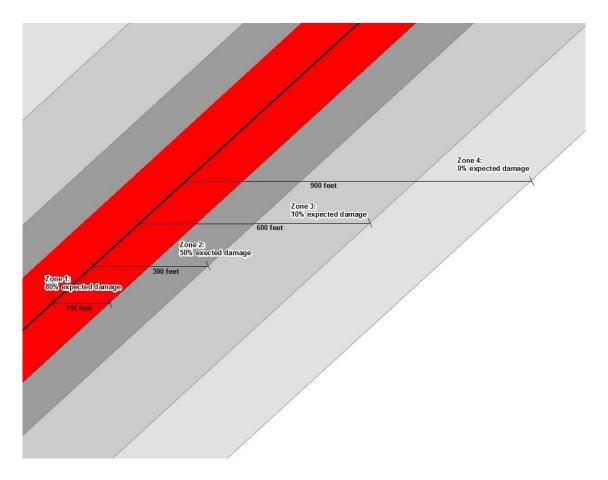


Figure 11: EF Scale Tornado Zones

An EF3 tornado has four damage zones, depicted in Table 12. Major damage is estimated within 150 feet of the tornado path. The outer buffer is 900 feet from the tornado path, within which buildings will not experience any damage. The selected hypothetical tornado path is depicted in Figure 12 and the damage curve buffer zones are shown in Figure 13.

Table 12: EF3 Tornado Zones and Damage Curves

Zone	Buffer (feet)	Damage Curve
1	0-150	80%
2	150-300	50%
3	300-600	10%
4	600-900	0%

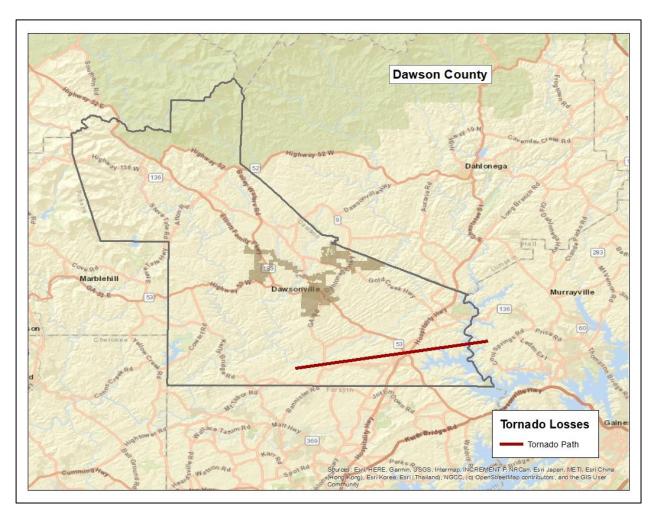


Figure 12: Hypothetical EF3 Tornado Path in Dawson County

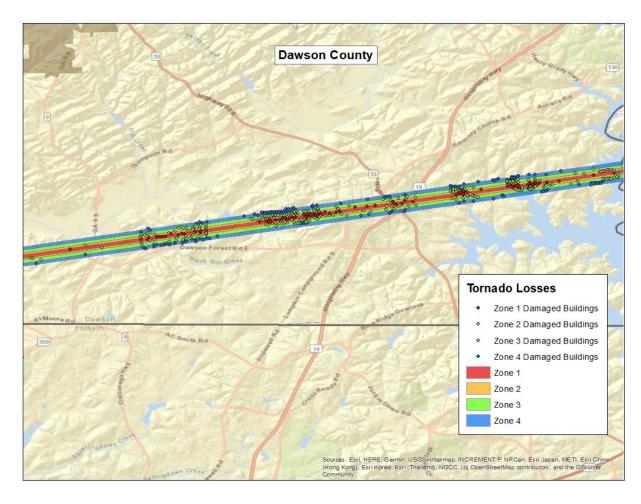


Figure 13: Modeled EF3 Tornado Damage Buffers in Dawson County

EF3 Tornado Building Damages

The analysis estimated that approximately 582 buildings could be damaged, with estimated building losses of \$44 million. The building losses are an estimate of building replacement costs multiplied by the percentages of damage. The overlay was performed against parcels provided by Dawson County that were joined with Assessor records showing estimated property replacement costs. The Assessor records often do not distinguish parcels by occupancy class if the parcels are not taxable and thus the number of buildings and replacement costs may be underestimated. The results of the analysis are depicted in Table 13.

Table 13: Estimated Building Losses by Occupancy Type

Occupancy	Buildings Damaged	Building Losses
Residential	510	\$27,131,428
Commercial	48	\$3,723,642
Industrial	16	\$871,971
Religious	3	\$37,181
Education	3	\$12,252,737
Government	2	\$0
Total	582	\$44,016,959

EF3 Tornado Essential Facility Damage

There were six essential facilities located in the tornado path – three schools, two medical care facilities and one fire station. Table 14 outlines the specific facility and the amount of damage under the scenario.

Table 14: Estimated Essential Facilities Damaged

Facility	Amount of Damage
Dawson County Middle School	Major Damage
Kilough Elementary School	Major Damage
Riverview Elementary School	Major Damage
Northside Urgent Care	Minor Damage
Goshen Family Medicine	Minor Damage
Dawson County Fire Department Station 7	Minor Damage

According to the Georgia Department of Education, Dawson County Middle School's enrollment was approximately 578 students, Kilough Elementary School's enrollment was approximately 450 students, and Riverview Elementary School's enrollment was approximately 476 students as of October 2023. Depending on the time of day, a tornado strike as depicted in this scenario could result in significant injury and loss of life. In addition, arrangements would have to be made for the continued education of the students in another location.

The location of the damaged Essential Facility is mapped in Figure 14.

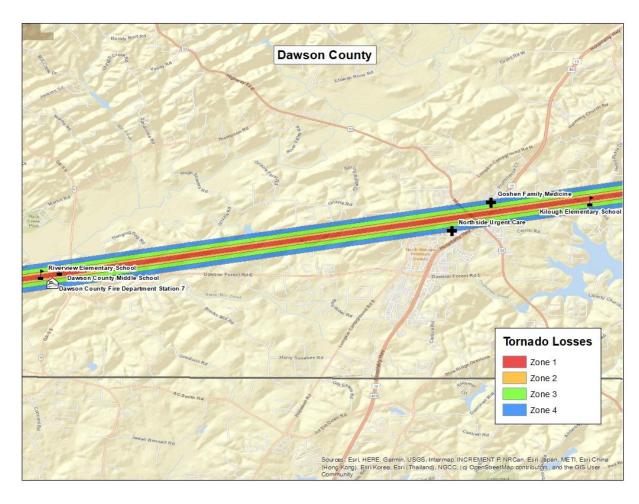


Figure 14: Modeled Essential Facility Damage in Dawson County

Exceptions Report

Hazus Version 2.2 SP1 was used to perform the loss estimates for Dawson County, Georgia. Changes made to the default Hazus-MH inventory and the modeling parameters used to setup the hazard scenarios are described within this document.

Reported losses reflect the updated data sets. Steps, algorithms and assumptions used during the data update process are documented in the project workflow named PDM_GA_Workflow.doc.

Statewide Inventory Changes

The default Hazus-MH Essential Facility inventory was updated for the entire state prior to running the hazard scenarios for Dawson County.

Updates to the Critical Facility data used in GMIS were provided by Dawson County in November 2023. These updates were applied by The Carl Vinson Institute of Government at the University of Georgia. Table 15 summarizes the difference between the original Hazus-MH default data and the updated data for Dawson County.

Table 15: Essential Facility Updates

Site Class	Feature Class	Default Replacement Cost	Default Count	Updated Replacement Cost	Updated Count
EF	Care	\$1,877,000	3	\$11,757,000	4
EF	EOC	\$880,000	1	\$2,561,000	1
EF	Fire	\$1,817,000	7	\$5,308,000	8
EF	Police	\$708,000	1	\$8,932,000	2
EF	School	\$48,022,000	7	\$68,362,000	7

County Inventory Changes

The GBS records for Dawson County were replaced with data derived from parcel and property assessment data obtained from Dawson County. The county provided property assessment data was current as of November 2023 and the parcel data current as of November 2023.

General Building Stock Updates

The parcel boundaries and assessor records were obtained from Dawson County. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary. Each parcel point was linked to an assessor record based upon matching parcel numbers. The generated Building Inventory represents the approximate locations (within a parcel) of building exposure. The Building Inventory was aggregated by Census Block and imported into Hazus-MH using the Hazus-MH Comprehensive Data Management System (CDMS). Both the 2010 Census Tract and Census Block tables were updated.

The match between parcel records and assessor records was based upon a common Parcel ID. For this type of project, unless the hit rate is better than 85%, the records are not used to update the default aggregate inventory in Hazus-MH. The Parcel-Assessor hit rate for Dawson County was 89.2%.

Adjustments were made to records when primary fields did not have a value. In these cases, default values were applied to the fields. Table 16 outlines the adjustments made to Dawson County records.

Table 16: Building Inventory Default Adjustment Rates

Type of Adjustment	Building Count	Percentage
Area Unknown	9	0%
Construction Unknown	129	1%
Condition Unknown	3	0%
Foundation Unknown	132	1%
Year Built Unknown	307	2%
Total Buildings	12,726	1%

Approximately 1% of the CAMA values were either missing (<Null> or '0'), did not match CAMA domains or were unusable ('Unknown', 'Other', 'Pending'). These were replaced with 'best available' values. Missing YearBuilt values were populated from average values per Census Block. Missing Condition, Construction and Foundation values were populated with the highest-frequency CAMA values per Occupancy Class. Missing Area values were populated with the average CAMA values per Occupancy Class.

The resulting Building Inventory was used to populate the Hazus-MH General Building Stock and User Defined Facility tables. The updated General Building Stock was used to calculate flood and tornado losses. Changes to the building counts and exposure that were modeled in Dawson County are sorted by General Occupancy in Table 1 at the beginning of this report. If replacements cost or building value were not present for a given record in the Assessor data, replacement costs were calculated from the Building Area (sqft) multiplied by the Hazus-MH RS Means (\$/sqft) values for each Occupancy Class.

Differences between the default and updated data are due to various factors. The Assessor records often do not distinguish parcels by occupancy class when the parcels are not taxable; therefore, the total number of buildings and the building replacement costs for government, religious/non-profit, and education may be underestimated.

User Defined Facilities

Building Inventory was used to create Hazus-MH User Defined Facility (UDF) inventory for flood modeling. Hazus-MH flood loss estimates are based upon the UDF point data. Buildings within the flood boundary were imported into Hazus-MH as User Defined Facilities and modeled as points.

Table 17: User Defined Facility Exposure

Class	Hazus-MH Feature	Counts	Exposure
BI	Building Exposure	12,726	\$2,269,210,297
Riverine UDF	Structures Inside 1% Annual Chance Riverine Flood Area	135	\$18,925,327

Assumptions

- Flood analysis was performed on Building Inventory. Building Inventory within the flood boundary was imported as User Defined Facilities. The point locations are parcel centroid accuracy.
- The analysis is restricted to the county boundary. Events that occur near the county boundary do not contain loss estimates from adjacent counties.
- The following attributes were defaulted or calculated:
 - First Floor Height was set from Foundation Type Content Cost was calculated from Building Cost

Resolution - Dawson County, Georgia

WHEREAS, Dawson County and the City of Dawsonville recognize that it is threatened by a number of different natural and man-made hazards that can result in loss of life, property loss, economic hardship and threats to public health and safety; and

WHEREAS, the Federal Emergency Management Agency (FEMA) has required that every county and municipality have a pre-disaster mitigation plan in place, and requires the adoption of such plans in order to receive funding from the Hazard Mitigation Grant Program; and

WHEREAS, a Hazard Mitigation Plan is a community's plan for evaluating hazards, identifying resources and capabilities, selecting appropriate actions, and developing and implementing the preferred mitigation actions to eliminate or reduce future damage in order to protect the health, safety and welfare of the residents in the community; and

WHEREAS, the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 – 2029 Update has been prepared in accordance with FEMA requirements at 44 CFR 201.6; and

WHEREAS, the Plan will be updated every five years;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of Dawson County, Georgia and the Mayor and Council of the City of Dawsonville each meeting in respective session, that:

- Dawson County, Georgia, the City of Dawsonville have adopted the Dawson County Multi-Jurisdictional Hazard Mitigation Plan 2024 – 2029 Update; and
- 2. It is intended that the Plan be a working document and is the first of many steps toward improving rational, long-range mitigation planning and budgeting for Dawson County and the City of Dawsonville.

PASSED, APPROVED AND ADOPTED regular session this day of	by the Dawson County Board of Commissioners in, 2024.
Chairperson	
County Manager	



DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA REQUEST FORM

Department: Public Works				Work	Session: <u>Dece</u>	mber 5, 2024
Prepared By:	Melissa Hawk			Voting S	Session: <u>Decer</u>	mber 19, 2024
Presenter: Ro	bert Drewry			Public He	earing: Yes 1	No <u>X</u>
Agenda Item ' Request	Title: Presenta	tion of <u>IFB #4</u>	60-24 SR 136	@ Shoal Cree	ek Road Round	labout Award
Background I	nformation:					
February 1, 2 tedious surve for the constr Current Inform An IFB was	nd construction of the construction of the construction document on the construction of the construction o	ern Engineering sign, highway lig hts. October 15, 202	th, Inc. was continuing design and the world t	racted on Marc d the creation o rk and opened	h 2, 2020, to be f right-of-way pl d on Novembe	egin the very ans required r 21, 2024.
	085,040 to perf	•	-	onsiole and i	esponsive blue	ici, with an
	·					
•	nation: Not App	olicable:	_	Budg	eted: Yes	No
•		Account #	Budget	Budg Balance	reted: Yes	NoRemaining
	Not App					
Applicable: _ Fund	Not App	Account #	Budget	Balance	Requested \$2,085,040	
Applicable: Fund *If this is a per state of the state	Not App Department	Account # d request, has ted to move to	Budget it been review the same day	Balance red by Human	Requested \$2,085,040 Resources?	Remaining
Applicable: Fund *If this is a per state of the state	Department Personnel-related size being request	Account # d request, has ted to move to	Budget it been review the same day	Balance red by Human	Requested \$2,085,040 Resources?	Remaining
Fund Fund *If this is a period award a contract the second term is t	Department Personnel-related size being request	Account # d request, has ted to move to for the reque	Budget it been review the same day est: lly requests the ve a 10% Cour	Balance red by Human r's voting sessi	Requested \$2,085,040 Resources? fon for BOC co	nsideration,

 $Comments/Attachments: \underline{Presentation}$

IFB #460-24 SR 136 @ SHOAL CREEK ROUNDABOUT



DECEMBER 5, 2024



Background and Overview

- The design and construction of a roundabout at SR 136 and Shoal Creek Road has been in the works since February 1, 2018.
- Southeastern Engineering, Inc. was contracted on March 2, 2020 to begin the very tedious survey work, road design, highway lighting design and the creation of right of way plans required for the construction documents.

The plans were completed using GDOT details and specifications, and all applicable AASHTO, MUTCD and Federal Highway Administration standards and specifications, latest editions.

Project Special Considerations

Locating the roundabout was difficult due to a cemetery, church grounds and State Route 136 was in a superelevated curve.

The County obtained right of way for 4 parcels and 9 temporary construction easements. Part of the acquisition included a land swap with the Church.

❖The County obtained a Special Encroachment permit from the GDOT to construct the project on a state route.

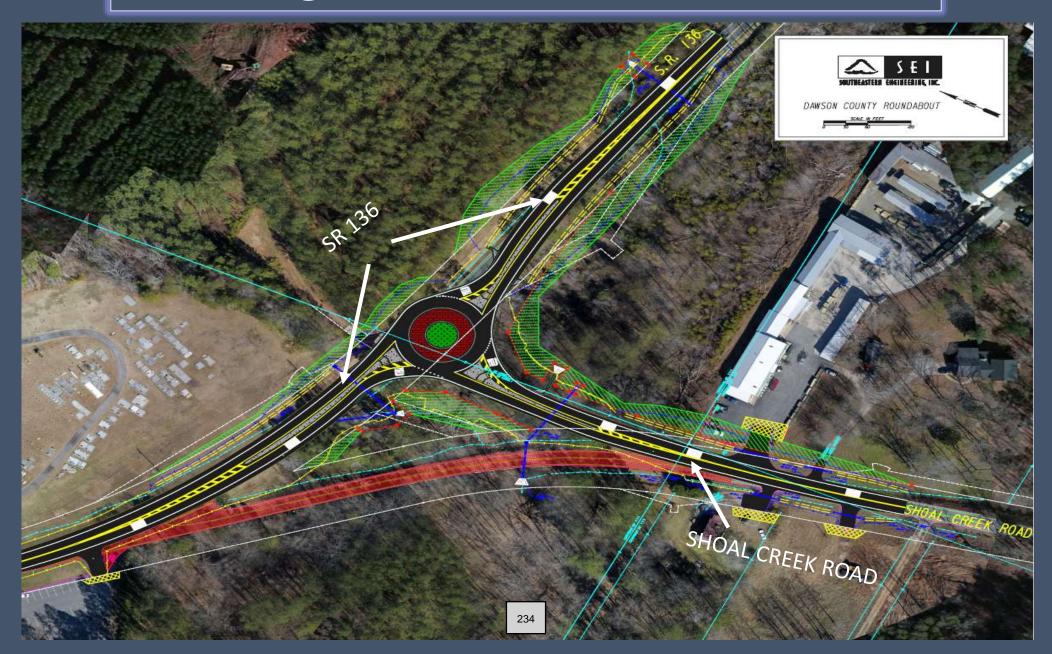








SR 136 @ SHOAL CREEK ROAD ROUNDABOUT



Scope of Work Overview

♦ Tł	The Scope of Work includes, but not limited to:	
	☐ Traffic Control	
	☐ Clearing and Grubbing	
	☐ Relocating Shoal Creek Road	
	☐ Erosion Control/Storm Sewer	
	☐ Asphalt Paving	
	☐ Curb & Gutter	
	☐ Compaction Testing	
	☐ Staging construction to keep traffic open on State Route 136	
	☐ Paving and concrete work	
	Clean up will be the responsibility of the contractor per the General Terms and Cor and the Contract Article VIII 8.6 Cleaning the Site and the Project	nditions 35 and 7





☐ Permanent Lighting at Roundabout





Procurement Approach and Procedure

Bid According to Policy

- ✓ Advertised in Legal Organ
- ✓ Posted on County Website through Vendor Registry
- ✓ Posted on Georgia Procurement Registry
- ✓ Notification through County's Facebook and Twitter accounts
- Notification through Dawson County Chamber of Commerce
- ✓ Received 6 bids received





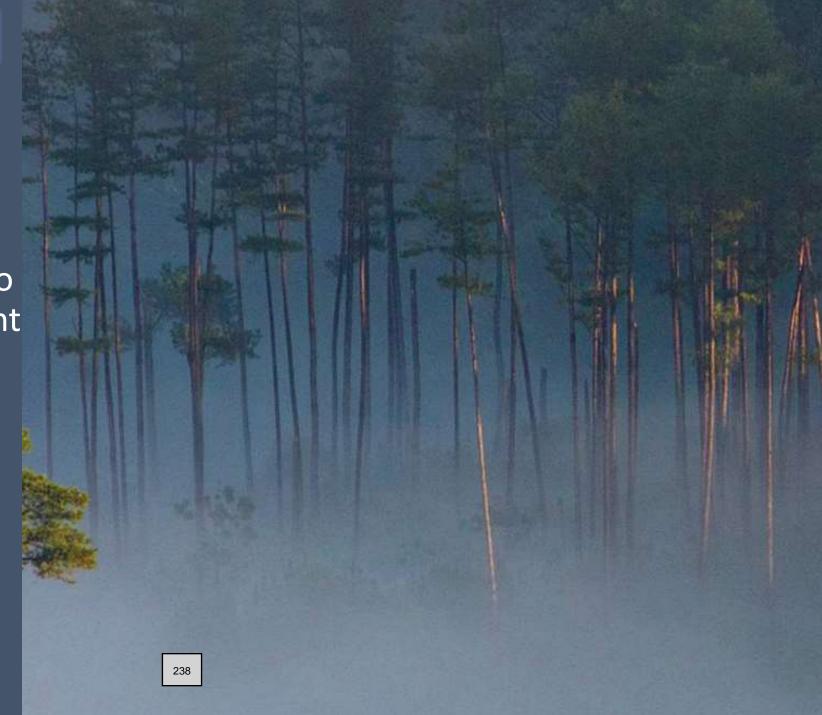
Offers Received

Strickland & Sons Pipeli	ne Ohmshiv	Construction	Backbone	Infrastructure	FS So	earbrough	Verti	cal Earth	Barto	w Paving
GRAND TOTAL \$4,056,585	GRAND 35 TOTAL	\$2,614,077.45	GRAND TOTAL	\$2,353,625.00	GRAND TOTAL	\$2,493,008.80	GRAND TOTAL	\$2,214,926.16	GRAND TOTAL	\$2,085,040.00

Pricing was received for Roadway Items such as traffic control, materials and grading; Signage and Marking Items; Landscape Items, Erosion Control Items,

Staff Recommendation

Staff respectfully requests the Board to accept bids received; award a contract to Bartow Paving, in the amount of \$2,085,040.00; and determine the Funds for the project.





DAWSON COUNTY BOARD OF COMMISSIONERS AGENDA REQUEST FORM

Department: County Manager				Work Session: 12/05/2024				
Prepared By: Melissa Hawk				Voting Session: <u>12/19/2024</u>				
Present	er: <u>Melissa Hawl</u>	<u> </u>		Public Hearing: Yes <u>x</u> No				
Agenda	Item Title: Prese	entation of RF	P #459-24 Constr	uction Services – St	tyles Park			
Backgr	ound Information	on:						
agree	-		·		L. Styles. The land of that the park would			
Current	t Information:							
began Budget	FP opened on immediately for Information:	ollowing.			proposer's technica			
Fund	Department	Account	Budget	Balance	Requested	Remaining		
	-	#			-			
324	6120				\$334,296			
*If this	-	equested to 1	nove to the same	eviewed by Humar e day's voting sess	n Resources?ion for BOC consi	deration,		
Recom	mendation/Mot	ion: <u>Staff re</u>	spectfully reques	ets the Board to rej	ect proposals recei	ved for		
			ved for Task 2; and ilizing SPLOST		et Steele & Associa	ates in the		
			•					
Department Head Authorization: Date:								
Finance Department Authorization: County Manager Authorization:					Date:			
County	Manager Auth	orization:		Da	te:			

Comments/Attachments: <u>Presentation</u>

RFP #459-24 CONSTRUCTION SERVICES — STYLES PARK

DECEMBER 5, 2024



Background and Overview

On August 4, 2022, the Board approved to accept donated land from Anne L. Styles. The land donation agreement was fully executed at this time.

The County determined the land would be used as a passive beginner mountain bike trail park. There will also be an ADA walking trail at this park.

The County contracted with Ensite Civil Consulting, LLC to prepare the civil plans.
241

Procurement Approach and Procedure

Bid According to Policy

- ✓ Advertised in Legal Organ
- ✓ Posted on County Website through Vendor Registry
- ✓ Posted on Georgia Procurement Registry
- ✓ Notification through County's Facebook and Twitter accounts
- Notification through Dawson County Chamber of Commerce
- ✓ Received 4 proposals





Technical Proposals Evaluation Committee

County Manager Joey Leverette

Parks/Recreation Director Matt Payne

Public Works Director Robert Drewry

Facilitated by Purchasing Manager Melissa Hawk

Scope of Work Overview

The work has been divided into two Tasks as follows:

❖Task 1:

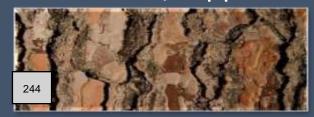
- Install a septic tank and field lines
- > Impervious parking lot, with two ADA spaces
- Asphalt pavement entry driveway
- Parking lot lighting
- Mulch path
- Concrete sidewalk

❖ Task 2:

- > A 4.5-mile passive biking and walking trails
- A .5-mile ADA walking trail, 6 feet in width, topped with asphalt









Offers Received

		SCROGGS &	STEELE &		
Description	PE STRUCTURES	GRIZZEL	ASSOCIATES	TRISCAPES	
TASK 1A– SITE WORK FOR ALL WORK					
EXCLUDING THE BIKING /WALKING TRAIL					
AND ADA TRAIL	\$257,196.00	\$799,265.00	\$0.00	\$330,730.52	
TASK 1B – PARKING LOT AND STRIPING	\$112,984.00	\$99,735.00	\$0.00	\$316,962.23	
TASK 1C – SEPTIC SYSTEM INSTALLATION	\$16,830.00	\$14,377.00	\$0.00	\$327,914.04	
TASK 1D – WATER WELL INSTALLATION AND					
ASSOCIATED PIPING	\$0.00	\$0.00	\$0.00	\$0.00	
TASK 1E – INSTALLATION PRE-FABRICATED					
BATH HOSE	\$0.00	\$0.00	\$0.00	\$0.00	
TASK 1F – ALL WORK OUTSIDE OF BIKING					
/WALKING AND ADA TRAIL NOT LISTED					
ABOVE	\$0.00	\$34,331.00	\$0.00	\$393,809.53	
TASK 2 –PASSIVE BIKING /HIKING TRAIL					
AND ADA TRAIL SCOPE OF WORK	\$389,997.00	\$610,200.00	\$334,296.00	\$633,882.00	
SUBTOTAL - TASK 1	\$387,010.00	\$947,708.00	\$0.00	\$1,369,416.32	
SUBTOTAL - TASK 2	\$389,997.00	\$610,200.00	\$334,296.00	\$633,882.00	

Scoring Summary

								Task 2	Task 1	Task 2	
COMPANY	COMPANY BACKGROUND AND STRUCTURE	EXPERIENCE & QUALIFICATIONS OF DEDICATED STAFF	PROJECT UNDERSTANDING/ APPROACH TO SCOPE OF WORK	REFERENCES	MANAGEMENT	TECHNICAL SCORE	COST/ FINANCIAL	COST/ FINANCIAL	TOTAL SCORE	TOTAL SCORE	
PE STRUCTURES	16	35	27	18	17	37	25	20	62	58	
SCROGGS & GRIZZEL	29	62	53	23	29	66	11	2	76	68	
STEELE & ASSOCIATES	29		59	21	26	66		25	N/A	91	
TRISCAPES	25			16		56			56	58	
Rounded up to the nearest who	Steele & Associates	did not submit a res	sponse for Task	1. This does follo	w the directio	ns in the RFP					

Staff Recommendation

Staff respectfully requests the Board to reject proposals received for Task 1; accept proposals received for Task 2; and award a contract to Steele & Associates in the amount of \$334,296.00, utilizing SPLOST VI Funds.

