

# Hazardous Materials Annex of the Medina County Emergency Operations Plan



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## 2 INTRODUCTION

### 2.1 PLANS PURPOSE

<b>Describe why the plan was developed and how it is meant to be used</b>	
Explain who has the authority to activate this plan.	This plan can be activated by the Incident Commander, the LEPC Emergency Coordinator and/or the Medina County EMA Director.
Describe why the plan was developed.	The Hazardous Material Annex is an extension of the Medina County Emergency Operations Plan dealing specifically with response to hazardous material incidents. The purpose of this annex is to predetermine the extent possible, actions to be taken by the governmental jurisdictions of Medina County to prevent avoidable disasters and respond quickly and efficiently to hazardous materials incidents to save lives and property of the residents of Medina County.
Describe how the plan was meant to be used.	This plan should be used to understand hazmat risks and demonstrate the capabilities of Medina County to prepare for, mitigate, respond to, and recover from these risks.

### 2.2 PLAN BASICS

<b>Identify/Explain the assumptions made and the methods used to complete the Hazards Analyses for EHS Facilities within the District.</b>	
Identify what methods were used to complete the analyses (i.e., Technical Guidance for Hazard Analysis manual, computer software modeling (WISER/CAMEO Suite/ARC GIS), etc.).	ArcGIS is used for mapping of all HS & EHS facilities in the county. All facility data is also in the CAMEO suite which can be used for plume modeling. The Hazmat team and fire departments utilize WISER in the field for initial plume modeling of releases.
Describe the geographic assumptions (rural, urban, etc.) made when completing the analyses.	Medina County is the sixteenth most populous county in the State of Ohio. According to the 2020 Census 182,301 people live in Medina County. The county has an area of 421.6 square miles. The eastern part of the County is rolling to hilly, while the western part is nearly flat. Extending across the County is a drainage divide between two drainage basins, the Lake Erie Basin, and the Ohio River Valley. Farmland occupies 94,987 acres of land in the county, which is about 35% of the total land cover, and the average farm size is 103 acres.
Describe the assumptions made about a material's quantity (use of avg amts, max amts,	The material quantity, location, and storage conditions are based on the maximum quantity reported on the annual Tier II report.



actual amts, etc.) and its storage condition (one container, multiple containers, etc.).	
Describe the weather factors (winds, temperatures, etc.) assumed while completing the analyses (i.e., defaults given in CAMEO Screening Scenario).	U.S. Climate Data found that 48.75°F is the average temperature in Medina, with an average annual high of 58.3°F and low of 39.2°F. The average wind speed and direction in Medina County is 10 MPH and 70% of the time it is out of the South or West.

### 2.3 RELATIONSHIP TO OTHER PLANS

<b>Identify other plans in the district and describe how they would be used in conjunction with this plan (i.e., Hospital plans, EOPs, Facility plans, etc.).</b>	
Identify/Describe what other plans will be employed and how they will be coordinated when the plans are simultaneously put into action.	This plan will be used in conjunction with the Medina County Emergency Operations Plan, the Medina County Mass Casualty/Mass Fatality Plan, and the Medina County Tactical Interoperability Communications Plan.

## 3 SITUATION AND ASSUMPTIONS

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### 3.1 SITUATIONS

#### 3.1.1 Fixed Facility Hazards

<b>Summarize/Identify a brief account of the district's fixed facility hazardous materials risk sites.</b>	
Identify the EHS Facilities within the District. A Geographic Information System (GIS) with this information can meet this requirement.	All HS & EHS facility data is stored in CAMEO Data Manager. All HS & EHS facility data is also stored in ArcGIS Pro for additional mapping and data analysis capabilities.
Identify all adjoining Facilities that either may be at risk or adds risk due to their proximity to an EHS Facility within the District. GIS with this information can meet this requirement. The analysis must be identified in GIS, not just the ability to do an analysis.	All facility locations are in ArcGIS with the capability to complete several types of analysis. See attached map with facility locations.
Summarize the geographic area (sewers, streams, watersheds, city, farmland, residential, etc.) and the population likely to be affected (approximate numbers of homes, people, special facilities, types/numbers of properties, etc.) to be affected by a release from an EHS Facility within the District. GIS with this information can meet this requirement.	All facility locations are in ArcGIS with the ability to complete several types of analysis. ArcGIS data includes all streams, parcels, sewers, etc. CAMEO is also utilized to generate plume models which can be viewed in ArcGIS with the county's robust GIS data.



### 3.1.2 Transportation Hazards

<b>Identify the District's EHS transportation risks.</b>	
Identify the routes likely to be used to transport EHSs to and from each EHS Facility. GIS with this information can meet this requirement.	See the Hazardous Materials Commodity Flow Study. Also see Medina County Emergency Operations Plan, Section X: Situation Overview, (K) Transportation.
Describe the types of transportation risks that exist (i.e., major roads/intersections, Rail lines/yards/intersections, pipelines/stations, waterways/ports, etc.).	<p>See the Hazardous Materials Commodity Flow Study.</p> <p>See Medina County Emergency Operations Plan, Section X: Situation Overview.</p> <p>Based on the CSX HHFT Report, the projected estimated weekly average of high hazard flammable trains through Medina County is 1-3. 99% of cars are alcohols N.O.S. Less than 1% are gasoline, heptanes, and pentanes. No other railroad reports HHFT for Medina County.</p>

### 3.2 ASSUMPTIONS

<b>Describe/Summarize those assumptions concerning what would happen in the case of an accidental spill or release.</b>	
Summarize the District's capability or limits to respond and control a release.	<p>Fire Departments in Medina County are the first responders to a hazardous materials spill or release in Medina County. If the spill or release is beyond their capability the Medina County All Hazards Type II Hazmat Team will respond. If a spill or release is beyond their capability a Type I hazmat team is available from Summit County and Cuyahoga County. The Ohio EPA and private contractors may also assist.</p> <p>See Medina County Emergency Operations Plan, Section X: Situation Overview.</p>

## 4 CONCEPT OF OPERATIONS

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### 4.1 PREPAREDNESS ACTIVITIES

#### 4.1.1 Mutual Aid Plan

<b>Identify/Describe the system for providing Mutual Aid to other Districts and within the district.</b>	
Identify the mutual aid agreements in-place for the allocation of emergency facilities, equipment, and personnel.	See Medina County Emergency Operations Plan, Section XIII: Organization and Assignment of Responsibilities, (E) Mutual Aid



	IMAC can also be utilized for mutual aid assistance.
Describe the arrangements and integration of other first response efforts when local Fire Dept. abilities are limited (i.e., use of other Typed HM Teams, private contractors, etc.). Only fill out if a typed Hazmat Team is not available in the district.	Medina County has a Type II Hazmat Team.
Identify/Describe any other arrangements made to provide resources or support.	See Medina County Emergency Operations Plan, Section XIII: Organization and Assignment of Responsibilities, (E) Mutual Aid

#### 4.1.2 Training Program

<b>Describe the District's standards and methods for meeting these standards</b>	
Describe the training needs/standards for the district (i.e., Entry Teams require Tech, Decon Teams require Operations). A listing with specific names is not required.	Medina County has a type II hazardous materials response team. Team members are required to be trained to the technician level. They maintain training based on hazmat typing requirements for a type II team.
Describe the method(s) to see that personnel acquire and maintain those required levels of training. (If the methods are up to the individual response agencies, then make that statement in the plan).	The Medina County hazardous materials response team trains based on a schedule developed by the team leader and the All-Hazards Team Coordinator. Hazmat training for other first responders is up to each individual agency.

#### 4.1.3 Resource Management

<b>Provide a composite summary statement of specialized equipment, facilities, personnel, and emergency response organizations or cite a resource manual available for a response within the district.</b>	
Summarize what specific resources exist within the district.	See Medina County Resource Manual, Emergency Response System Database (CIMS), WebEOC
Identify the Heads of each Emergency Response Organization within the District by Title and Office.	See Medina County Resource Manual. Medina County EMA also maintains a sperate list of all Fire Chiefs, Police Chiefs, and All Hazard Team Leaders.

## 4.2 RESPONSE PROCEDURES

### 4.2.1 Initial Notification

<b>Explain/Describe the system for receiving/disseminating initial notification that a release has occurred.</b>	
Explain how the Facility reports and the district receives and documents a call received under ORC 3750.06.	Medina County EMA staff receives all release reports. Reports are documented on the "Medina County 30-minute Hazmat Release Notification"



	form and stored electronically in a spill reporting database.
Explain the procedure(s) to alert response and support agencies.	First response agencies are notified via radio through their respective dispatch centers. The Medina County Hazmat Team is dispatched by the Medina County Sheriff's Office via radio and Active911.
Designate and describe the role of the LEPC's Community Emergency Coordinator.	The Emergency Coordinator is the Medina County EMA Deputy Director. The Emergency Coordinator coordinates the development and implementation of the chemical emergency response and preparedness plan of the district. They also receive verbal and 30-day spill/release follow-up written reports of releases of hazardous chemicals and extremely hazardous substances (EHS) provided under ORC Section 3750.06.
Describe when and how neighboring Districts would be notified.	See Medina County Emergency Operations Plan, Section XVI: Communications

#### 4.2.2 Incident Assessment

<b>Summarize/Identify the District's methods/procedures to assess the risks posed at an EHS release.</b>	
Summarize the capabilities (general), based on training, of the District's Fire Depts., to assess a release.	The fire departments are trained to respond at the hazmat operations level.
Summarize the capabilities (general), based on training, of the District's Law Enforcement agencies to assess a release.	Law enforcement is trained to respond at the hazmat awareness level.
Summarize the capabilities (general), based on training, of the District's EMS personnel to assess a release.	EMS personnel are trained to respond at the hazmat awareness level.
Identify the plans/SOPs/SOGs and agencies to be used to monitor the movement and effects of a release.	Local law enforcement and fire departments are the first responders to hazardous materials incidents. They will respond based on their agencies plans/SOP's/SOG's. If the incident is beyond the capability of the fire department, they will request the Medina County Hazmat team to assist. The hazmat team will respond based on their SOG's. Hazmat Team SOG's are maintained electronically for team members by the All-Hazards Team Coordinator.
Describe who utilizes the monitoring and assessment results and is authorized to make protective action decisions.	The fire department will use the monitoring and assessment results in conjunction with the hazmat team and is authorized to make protective action decisions.





## 4.3 DIRECTION AND CONTROL

### 4.3.1 Incident Command

<b>Diagram/Explain how the district implements an Incident Command System (ICS) to manage an EHS response.</b>	
Diagram and/or explain the system and layout of the ICS to be used (i.e., how does a hazmat team fit into an existing ICS structure). 29CFR1910.120 requires site control, safety, medical monitoring, and communications be addressed that can be completed through ICS. No need to re-iterate ICS fundamentals.	See Medina County Emergency Operations Plan, Section XIV: Direction and Control, (3) On Scene Management
Explain how an incident command post (ICP) will be identified (if a specific identity is used different from normal ICS instruction).	See Medina County Emergency Operations Plan, Section XIV: Direction and Control, (3) On Scene Management, (d)
Identify who will select communication networks used during a response and if a specific communication network is used for hazmat response.	See Medina County Tactical Interoperability Communications Plan
Explain who has overall responsibility to maintain control (ORC 3737.80).	See Medina County Emergency Operations Plan, ESF 4: Firefighting & Rescue, Section II Situation, B
Describe the method to coordinate on scene hazmat activities with an activated EOC.	See Medina County Emergency Operations Plan, Section XIV: Direction and Control

### 4.3.2 Emergency Operations Center

<b>Identify the Primary/Alternate locations and summarize the use of an Emergency Operations Center (EOC) during an EHS response.</b>	
Identify the Primary/Alternate locations and explain the mechanism to activate an EOC, primary or alternates, for an EHS incident.	See Medina County Emergency Operations Plan, Section XII: Concept of Operations
Summarize the roles of the EOC during an activation.	See Medina County Emergency Operations Plan, Section XII: Concept of Operations
Identify who's in charge of the EOC and describe how operations are managed in the EOC.	See Medina County Emergency Operations Plan, Section XII: Concept of Operations
Describe the EOC's capabilities or SOPs/SOGs to manage a 24-hour response.	See Medina County Emergency Operations Plan, Section XII: Concept of Operations

### 4.3.3 Communications Among Responders

<b>Summarize the system for providing reliable, timely and effective communications among responders during an EHS incident.</b>	
Summarize the primary and backup communication methods (hardware) to exchange and coordinate communications, on and off-scene.	See Medina County Emergency Operations Plan, Section XVI: Communications. See Medina County Tactical Interoperability Communications Plan
Identify the compatible frequencies used by agencies during a response (i.e., who can talk to	See Medina County Tactical Interoperability Communications Plan



whom to include contiguous local, state, and private agencies).	
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#### 4.3.4 Containment of Scene Stabilization

<b>Summarize the capabilities and arrangements to be followed by Facility and District personnel to contain and stabilize an EHS release.</b>	
Summarize the capabilities, based on training, of the district's various Fire Depts. to contain and stabilize a release.	The fire departments are trained to respond at the hazmat operations level.
Summarize the capabilities, based on training, of the District's Law Enforcement personnel to provide scene stabilization, such as traffic and access control.	Law enforcement is trained to respond at the hazmat awareness level. Law enforcement is also trained in traffic & access control.
Summarize the arrangement and integration of other first response efforts when local Fire Dept. abilities are limited (i.e., use of HM Teams, Private Contractors, etc.) Only fill out if a typed Hazmat Team is not available in the county.	Medina County has a Type II Hazmat Team
Summarize if the district facilities capability exists to contain and stabilize a release.	All facilities shall have at least a limited capability to contain hazardous materials spills & releases. Facilities shall follow all local, state & federal laws and regulations.

#### 4.3.5 Response Personnel Safety

<b>Describe the methods emergency and medical personnel will provide to ensure the responder safety.</b>	
Describe the use of exclusion zones (i.e., Hot or Initial Release Area, Warm or Contamination Reduction, and Cold or Clean Zones) to account for responders while operating in and around the incident site and entering and leaving the zones.	Most incident scenes will have at least three zones: Hot Zone (contaminated area), Warm Zone (the area where decontamination of personnel and equipment takes place) and the Cold Zone (the uncontaminated area where workers should not be exposed to hazardous materials).

#### 4.3.6 Victim Treatment and Handling

<b>Identify/summarize the capabilities of emergency response and medical personnel to provide for victim treatment during an EHS release.</b>	
Summarize the capabilities, based on training, the district's various Fire Depts. and EMS personnel have to recover, treat and transport victims of a release.	See Medina County Mass Casualty/Mass Fatality Plan, Section 3.13.F: Hazardous Material (Hazmat)
Summarize the capabilities, based on training, the Hospital response to support first responders in a release (i.e., the interaction that occurs between hospital staff and the medical transporter at the hospital.) The LEPC should not	See Medina County Mass Casualty/Mass Fatality Plan, Section 3.7: Hospital Operations



dictate procedures/plans to be used “in-house” at the hospital.	
Identify the hospitals that would be utilized in caring for contaminated patients within and/or outside of the district.	See Medina County Mass Casualty/Mass Fatality Plan, Section 3.13.F: Hazardous Material (Hazmat)
Explain the procedures used to protect crews/equipment from contamination.	See Medina County Mass Casualty/Mass Fatality Plan, Section 3.13.F: Hazardous Material (Hazmat)
Explain how EMS operations are coordinated with the on-scene commander.	See Medina County Mass Casualty/Mass Fatality Plan, Section 3.6.L: Communications, Section 4.2.B: Incident Commander/Unified Command
Explain how EMS coordinates with hospitals/medical centers for patient care and transport.	See Medina County Mass Casualty/Mass Fatality Plan, Section 4.1.J: Coordinating Hospital, section 3.6.K Transport, Section 3.6.L: Communications
Describe the use of a dedicated EMS unit to monitor and support a Hazmat Team	The Incident Commander is responsible to provide an ALS squad to monitor and support the hazmat team. This can be from the fire department responsible for the incident or a mutual aid department. See “All Hazards Team Dispatch Procedure.”
Describe how hospitals/medical centers will coordinate with on-scene agencies during an incident.	See “Medina County Mass Casualty/Mass Fatality Plan, Section 4.1.J: Coordinating Hospital.”
Describe the coroner's role in an incident (i.e., identification, morgue expansion, etc.).	See “Medina County Mass Casualty/Mass Fatality Plan, Section 3.8: Coroner Operations.”

#### 4.3.7 Personal Protection of Citizens

##### 4.3.7.1 Evacuation Procedures

<b>Explain/Describe the methods used to implement an evacuation, to include provisions for alternate traffic routes and precautionary evacuations.</b>	
Explain how evacuation procedures are to be implemented, and who has the authority to issue the order.	See “Medina County Evacuation Plan, Operations & Responsibilities #1”
Describe how and when the public is notified of this protective action.	See “Medina County Evacuation Plan, Operations & Responsibilities #2.”
Indicate what protective actions the public may be advised to follow.	See “Medina County Evacuation Plan, Operations & Responsibilities #1 & Purpose.”
Explain how evacuees will be moved, to include assisting mobility impaired individuals.	See “Medina County Evacuation Plan, Operations & Responsibilities #4.”
Explain who will assign evacuation routes as well as alternate routes.	See “Medina County Evacuation Plan, Operations & Responsibilities #4.”

##### 4.3.7.2 Sheltering and Mass Care

<b>Identify/Summarize sheltering and mass care provisions which are provided to evacuees.</b>	
Identify the agencies and summarize their capabilities to implement sheltering and mass care operations.	See “Medina County Mass Casualty/Mass Fatality Plan, Section 3.9: Red Cross Operations.”



Describe how contact is made for the establishment of sheltering or mass care.	See “Medina County Mass Casualty/Mass Fatality Plan, Section 3.9: Red Cross Operations.”
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#### 4.3.7.3 In-Place Sheltering

<b>Identify/Describe the system, as an option to evacuation, for determining who initiates and the methods on how the public is notified.</b>	
Identify who is responsible for initiating this action and describe how the public is notified.	See “Medina County Evacuation Plan, Operations & Responsibilities #1”.
Describe the procedure used to communicate/implement this protective action.	See “Medina County Evacuation Plan, Operations & Responsibilities #2”.
Indicate what protective actions the public will be advised to follow.	See “Medina County Evacuation Plan, Operations & Responsibilities #1 & Purpose”.

#### 4.3.7.4 Public Information

<b>Identify/Describe the system for providing reliable, timely and effective communications to the public during an EHS incident.</b>	
Identify the systems in-place for public warning for each agency (i.e., EAS, sirens, PA's, door-to-door, social media, etc.) and describe their use to warn and notify the public (local and regional) and who has the authority to authorize the activation of the warning device.	EAS, Wireless Emergency Notification System, door-to-door, social media, PA's. Various ORC statutes relevant to partner stakeholders.
Describe how special populations (i.e., schools, nursing homes, hearing-impaired, non-English speaking, etc.) are identified and alerted.	EAS, Wireless Emergency Notification System, door-to-door, social media, PA's. Schools have internal notification systems to notify parents & students.

### 4.4 RECOVERY METHODS

#### 4.4.1 Cleanup and Disposal

<b>Describe how emergency responders will coordinate for the Clean-up and Disposal from an EHS incident.</b>	
Describe how and with whom the cleanup and disposal process is coordinated (ORC 3737.80)	ORC 3737.80 “In any emergency situation relating to the prevention of an imminent release of a hazardous material, to the cleanup or disposal of a hazardous material that has been released, or to the related mitigation of the effects of a release of a hazardous material, the chief of the fire department in whose jurisdiction the emergency situation is occurring or his designee is responsible for primary coordination of the on-scene activities of all agencies of the state, the United States government, and political subdivisions that are responding to the emergency situation until the chief relinquishes that responsibility to a representative of one of



	<p>the responding public agencies and so notifies that representative.”</p> <p>See “Cleanup Contractor List” for contractors available for cleanup and disposal.</p>
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#### 4.4.2 Documentation and Critique

<b>Describe/Summarize the system the district uses to document each EHS incident.</b>	
Describe what agencies will be responsible to document on-scene and off-scene activities.	Activities will be documented by all responding agencies. Spills & Releases will primarily be documented the fire department having jurisdiction via a NFIRS report & ICS forms.
Summarize what agencies would review and maintain incident documentation.	All documentation is reviewed and maintained by the agency completing the documentation. Medina County Hazmat Team incident reports are reviewed by the All-Hazard Team Coordinator and maintained by Medina County EMA.

#### 4.4.3 Cost Recovery

<b>Describe the procedures to arrange for and receive cost reimbursement for a response.</b>	
Summarize the process of the District's LEPC/EMA office and the applicable legal representative to arrange cost recovery as per ORC 3745.13	See “Medina County EMA Hazardous Materials Incident Cost Recovery Policy” and “Medina County Hazmat Cost Recovery Form.”

## 5 PLAN MAINTENANCE

### 5.1 ANNUAL PLAN EXERCISE

<b>Describe/Summarize the methods and schedules for exercising the plan.</b>	
Summarize how the LEPC develops and conducts its annual exercise as per SERC rules. Citing the Ohio Hazardous Materials EEM meets this requirement.	The Medina County LEPC develops and conducts its exercises based on the “Ohio Hazardous Materials Exercise and Evaluation Manual.”
Describe/Identify the frequency/schedule of exercises to be completed during the four-year exercise cycle. Citing the Ohio Hazardous Materials EEM meets this requirement.	The Medina County LEPC develops and conducts its exercises based on the “Ohio Hazardous Materials Exercise and Evaluation Manual.”

### 5.2 PLAN REVIEW AND UPDATE

<b>Describe the process utilized to review and maintain the plan annually, or as changes in the district warrant.</b>	
Describe the LEPC’s responsibility to review and recommend changes to the plan	This plan will be maintained in accordance with ORC 3750.



## 6 AUTHORITIES AND REFERENCES

### 6.1 LEGAL AUTHORITIES

<b>Describe, list, or reference those applicable Local, State, and Federal laws that apply to the development of this plan.</b>	
Local/Regional Ordinances or Statutes.	
State Ohio Revised Codes and Ohio Administrative Codes	<ul style="list-style-type: none"> <li>- ORC 3750</li> <li>- 3745.13</li> <li>- 3737.80</li> <li>- 5502.38</li> <li>- OAC 3750-20-70 thru 84</li> </ul>
Federal Standards and Regulations	<ul style="list-style-type: none"> <li>- CERCLA</li> <li>- SARA Titles I and III</li> <li>- OSHA 1910.120(q)</li> <li>- OPA 90</li> <li>- NFPA 471-473</li> </ul>

### 6.2 REFERENCES

<b>Describe/List those references used for developing the plan and exercises that are available within the district.</b>	
Plans and Documents referenced in the plan	<ul style="list-style-type: none"> <li>- Medina County Emergency Operations Plan</li> <li>- Medina County Tactical Interoperability Communications Plan</li> <li>- Medina County EMA Hazardous Materials Incident Cost Recovery Policy</li> <li>- Medina County HazMat Cost Recovery Form</li> <li>- Medina County Mass Casualty/Mass Fatality Plan</li> <li>- Medina County Evacuation Plan</li> <li>- Medina County Resource Manual</li> <li>- Medina County 30-minute Hazmat Release Notification</li> <li>- Cleanup Contractor List</li> <li>- Hazardous Materials Commodity Flow Study</li> </ul>
General planning references	<ul style="list-style-type: none"> <li>- NRT-1</li> <li>- Cross Reference</li> <li>- NRT-2</li> <li>- Ohio Hazardous Materials Exercise and Evaluation Manual</li> </ul>
Technical references	<ul style="list-style-type: none"> <li>- DOT Guidebook</li> <li>- AAR/BOE Hazardous Materials Handbook</li> <li>- NIOSH guides</li> <li>- ATSDR manuals</li> </ul>



Computer software modeling	<ul style="list-style-type: none"><li>- CAMEO Suite</li><li>- WISER</li><li>- ARC GIS</li></ul>
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7 AUTHENTICATION

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Christina Fozio  
Christina Fozio  
EMA Director

Oct. 12, 2022  
Date

Ben Nau  
Ben Nau  
LEPC Emergency Coordinator

10/12/2022  
Date

