

# 2024 SEARCH Winter Membership Group Meeting



January 23-25, 2024 | New Orleans, LA

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**SEARCH**



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# The Criminal History Record - Defining Universal Measures

## Overview:

- Universal CCH measures
  - Missing Data
  - Accuracy
  - Process Measures
  - Trends
- Current efforts
- Research opportunities



# The Criminal History Record - Defining Universal Measures

## Measures:

- Missing data
  - Arrests
  - Charges
  - Dispositions
  - Demographics
  - SID, Arrest Tracking Number, UCN/FBI number

# The Criminal History Record - Defining Universal Measures

## Measures:

- Accuracy
  - Dates
  - DOBs (DOB aliases, DOB after arrest, DOB after conviction)
  - Disposition date prior to arrest
  - Duplicate records
  - Matching FTAs with original arrest



# The Criminal History Record - Defining Universal Measures

## Measures:

- Process measures
  - Time from arrest event to receipt by repository
  - Receipt by repository and entry into CCH
  - Time from arrest to disposition
  - Suspense file/Error file
    - Number of records/records by agency
    - Reason for rejection
    - Length of time records reside in file

# The Criminal History Record - Defining Universal Measures

## Measures:

- Trends over time
  - Number of arrests and dispositions
    - Gross number of arrests by agency/dispositions by courts
    - Nature of charges by agency/dispositions by courts
    - Types of dispositions by court
    - Establish averages and expected results; flags/alerts when something unexpected happens or suddenly shifts
  - Attributes of persons (age, sex, race) and cases (charges, felonies, misdemeanors)



# The Criminal History Record - Defining Universal Measures

## Our work in this area (putting it all together)

- CCH Metrics Working Group
  - Identification of practical measures that provide value to state repositories
- Ongoing development of data visualizations
  - Redesigning visualizations to simplify and organize data and to encourage exploration
- Development of functional specifications
  - Counting methodologies, data structure, process flow, data mapping procedures



# The Criminal History Record - Defining Universal Measures

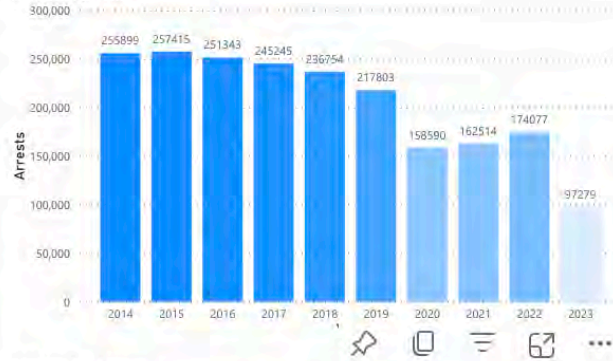
## Our work in this area (putting it all together)

- Expanding the CCH Metrics program
  - Data from seven states
  - Actively working with four new states
- Data Visualization
  - Where we are now
  - Where we will be growing
    - New organization and presentation of data
    - New measures identified by CCH Metrics Workgroup
    - Metrics to help states with Clean Slate
  - Measures that matter

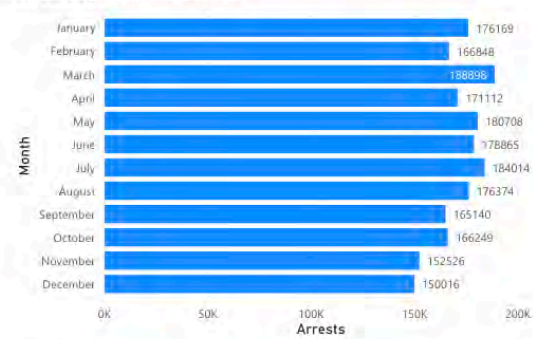


# CCH Analytics - Arrests (2014-2023)

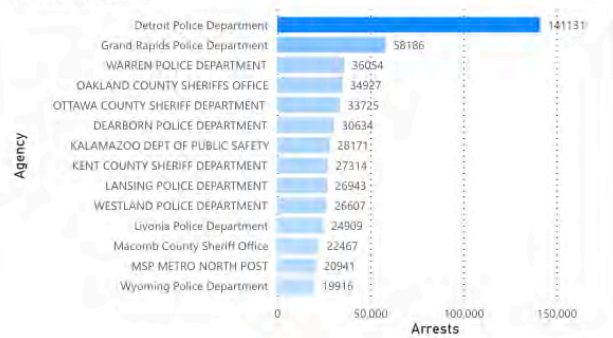
## Arrests by Year



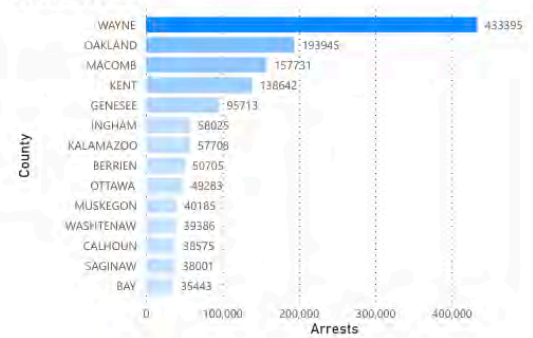
## Arrests by Month (Cumulative)



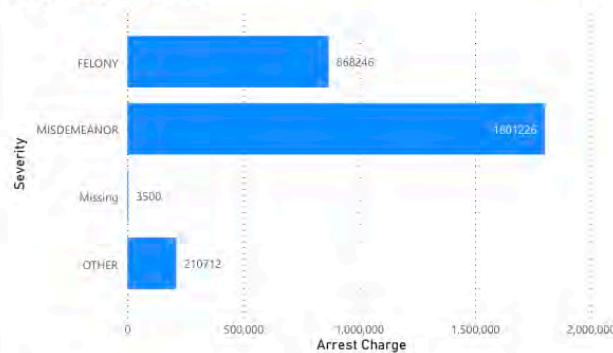
## Arrests by Agency



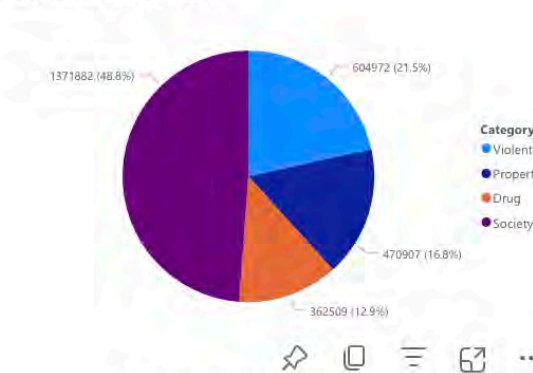
## Arrests by County



## Arrest Charge by Severity

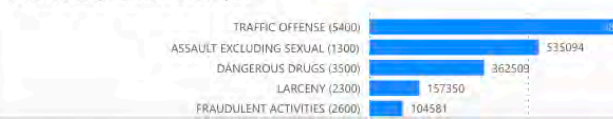


## Arrest Charge by Category



## Statute Description

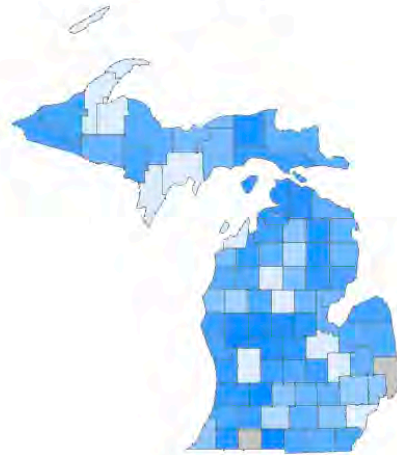
## Arrest Charge Statute Description



## Arrest Charge Disposition Status



## Disposition Reporting, Arrests & Dispositions

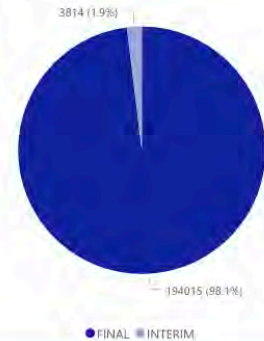


County	Arrests	Dispositions	Missing/Open Dispositions	Disposition Reporting
ALCONA	126	115	11	91.3%
ALGER	109	98	11	89.9%
ALLEGAN	3693	3567	126	96.6%
ALPENA	1130	1040	90	92.0%
ANTRIM	270	256	14	94.8%
ARENAC	354	321	33	90.7%
BARAGA	142	111	31	78.2%
BARRY	911	906	5	99.5%
BAY	3654	3345	309	91.5%
BENZIE	322	287	35	89.1%
BERRIEN	5581	4882	699	87.5%
BRANCH	649	646	3	99.5%
CALHOUN	4287	3609	678	84.2%
CASS	1040	1013	27	97.4%
CHARLEVOIX	511	493	18	96.5%
CHEBOYGAN	773	757	16	97.9%
CHIPPEWA	1086	1002	84	92.3%
CLARE	784	583	201	74.4%
CLINTON	1517	1415	102	93.3%
<b>Total</b>	<b>236754</b>	<b>197829</b>	<b>38925</b>	<b>83.6%</b>

## Arrests and Dispositions by Year



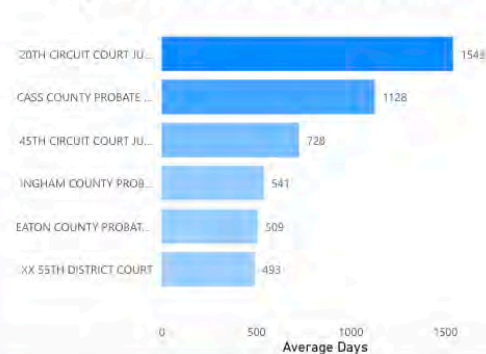
## Court Disposition by Status



## Arrests with Final Dispositions

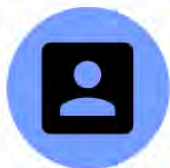


## Avg Days from Arrest to Disposition





# CCH Data Quality Report



## PERSON

Explore the Number of Persons Contained in the Maine CCH Repository



## ARRESTS

Explore Arrests Reported to the Maine CCH Repository



## CHARGES

Explore Charges from the Maine CCH Repository



## DISPOSITION

Explore Disposition Reporting Data in the Maine CCH Repository



## SENTENCES

Explore Sentences Reported to the Maine CCH Repository



## ERROR FILE

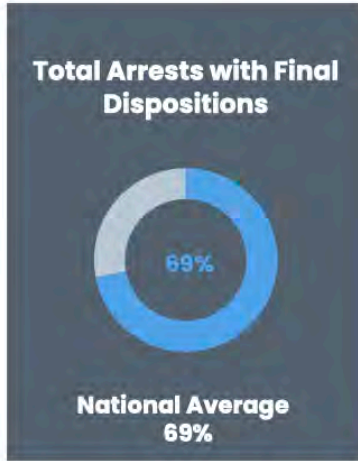
Explore the Error File and Associated Errors from the Maine CCH Repository



# Maine Dispositions CCH Data Quality Report

Year  
 2022 ✓

Total Arrests	Total Final Dispositions	Total Pending Dispositions
18,520	12,843	1,002



Electronic Disposition Reporting by Courts



Percent of Dispositions Matched to an Arrest



Percent of Arrests Missing SID, ATN, TCN

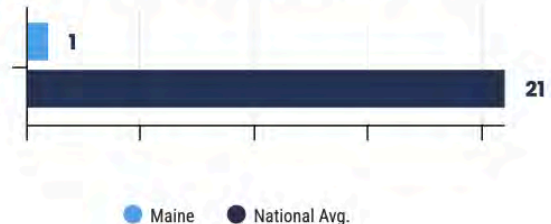


<b>4,300</b> Felonies Missing Dispositions
<b>4,300</b> Misdemeanors Missing Dispo
<b>182</b> Duplicate Arrests
<b>640</b> Dispositions in Err Queue

Disposition Backlog



Average Days Between Felony Court Case Disposition and Receipt by the Repository



# The Criminal History Record - Defining Universal Measures

## Importance of this work:

- Criminal Justice System
  - Bonds
  - Charging
  - Sentencing/Habitual offenders
- Background Checks
  - Licensing/housing/employment/volunteering
- Public Safety
  - Law enforcement safety
  - Situational awareness



# The Criminal History Record - Defining Universal Measures

## Importance of this work:

- Improving the completeness and accuracy of the criminal history record
- Reliability/trust/credibility
- Job crafting
- Ability to quickly and ACCURATELY provide information/data to requests



# The Criminal History Record - Defining Universal Measures

## Future Research:

- Measuring risk, recidivism and redemption
- Studying the increasing use of employer-based background checks
- Reviewing policy impacts on CJ system
- Researching waiting periods, arrest patterns, arrest/charge trends, etc.
- Understanding/monitoring performance of the CCH repository/processes/staff/etc.

# Technical Process

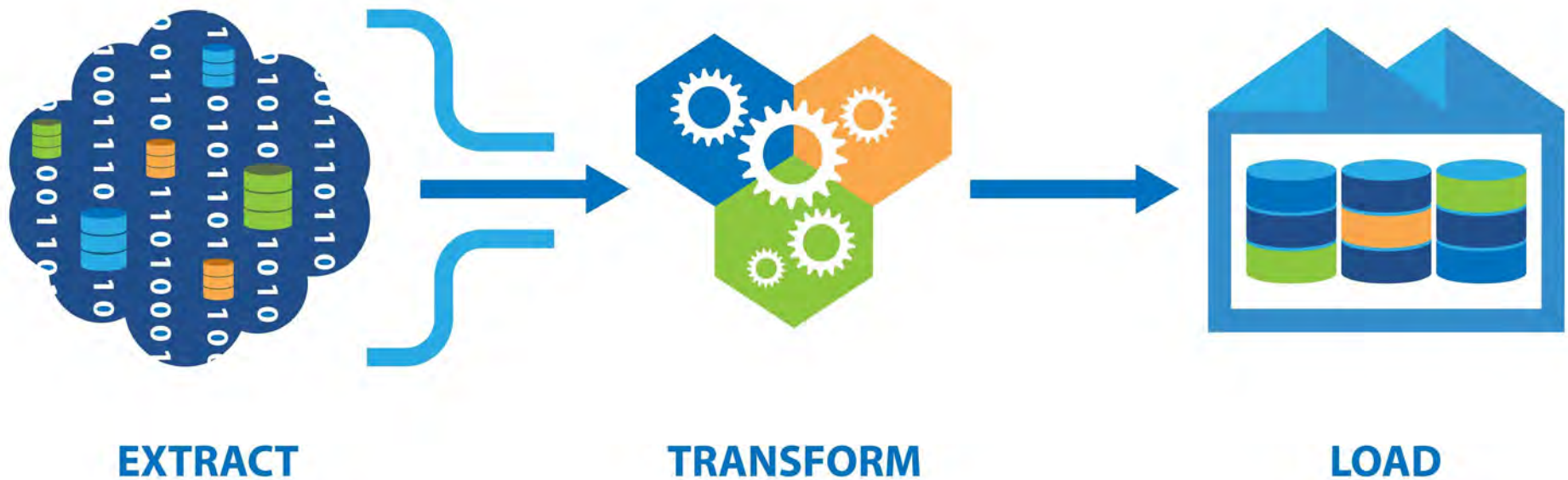
## Overview:

- ETL Process
- Common Data Model
- Data Curation
- Analytics Database



# Using Data From CCH Repositories

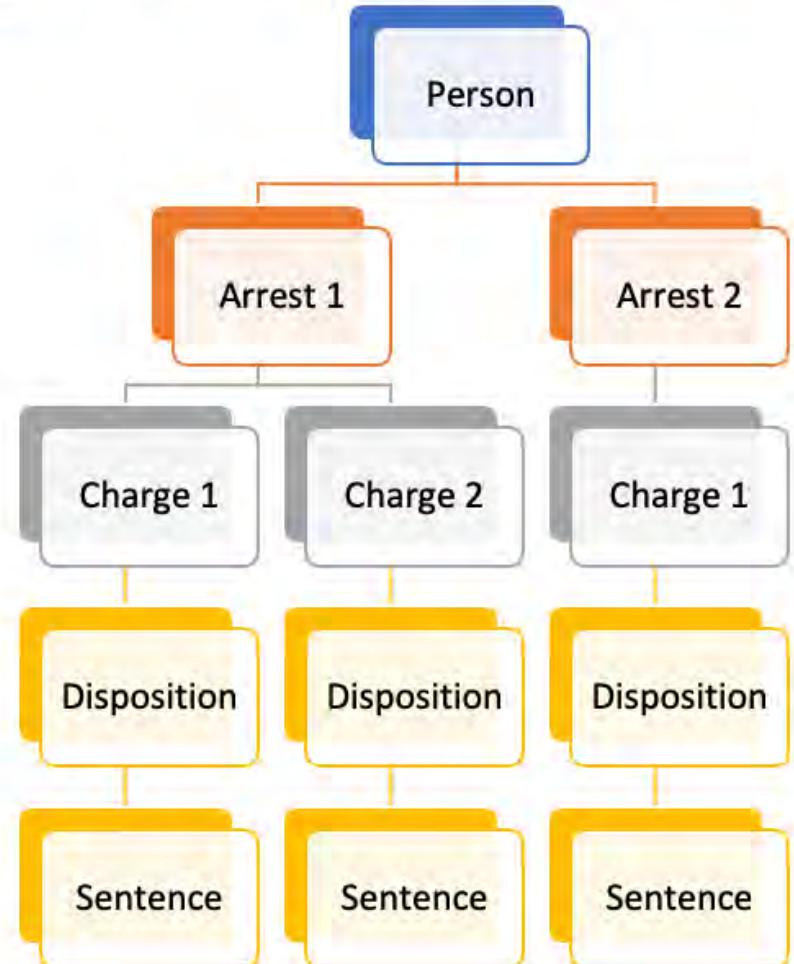
## ETL – Data Extraction, Loading, and Transformation



# The Common Data Model (CDM)

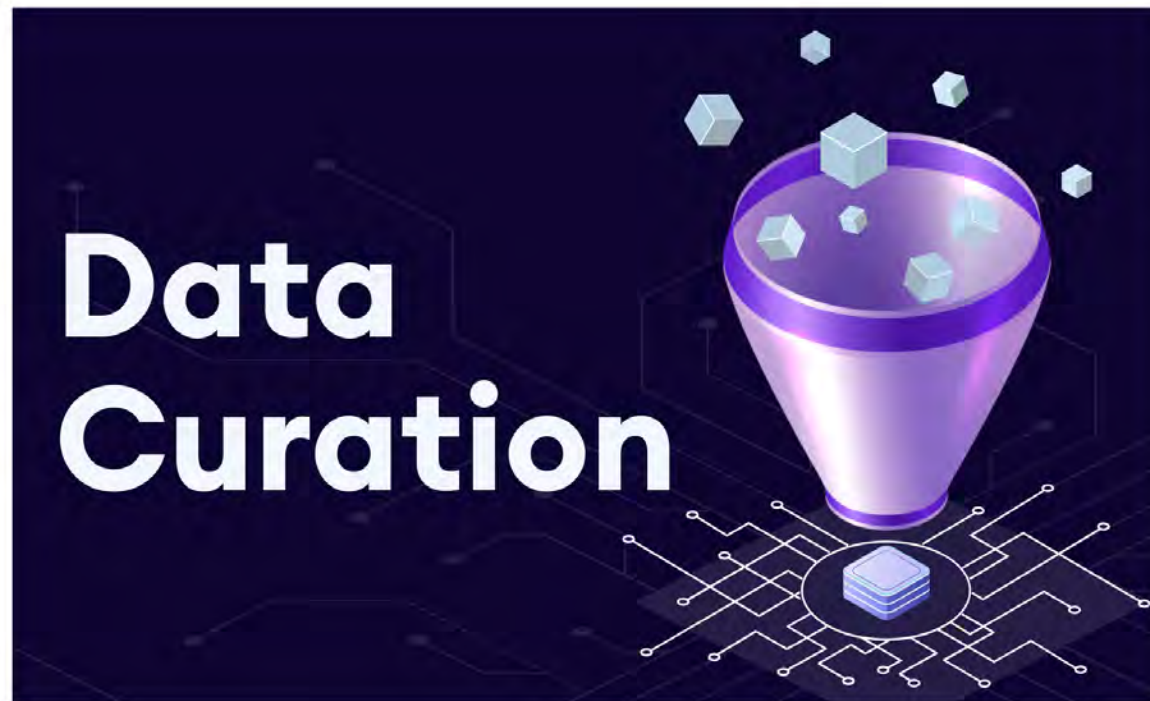
- **Normalize States' CCH data**
- **Based on JTF standard**
- **Additional data elements enhance the ability to analyze the data for specific operational or research purposes**
- **Reuse for dashboards, analytics, and research**

Figure 1 - Criminal History Data Structure



# Data Curation

- **Most Serious Charge**
- **Most Significant Disposition**
- **Most Significant Sentence**





# SEARCH's Approach

- **Secure environment for states to share raw data**
- **Remove PII or hash identification numbers**
- **Develop code tables to standardize dispositions, charge categories, etc.**
- **Separate CDM for each state**
- **Add NCIC offense codes and other codes as needed**
- **Review with contributing state**
- **Add the derived and calculated elements**



# Unstructured Data

- **Dispositions**

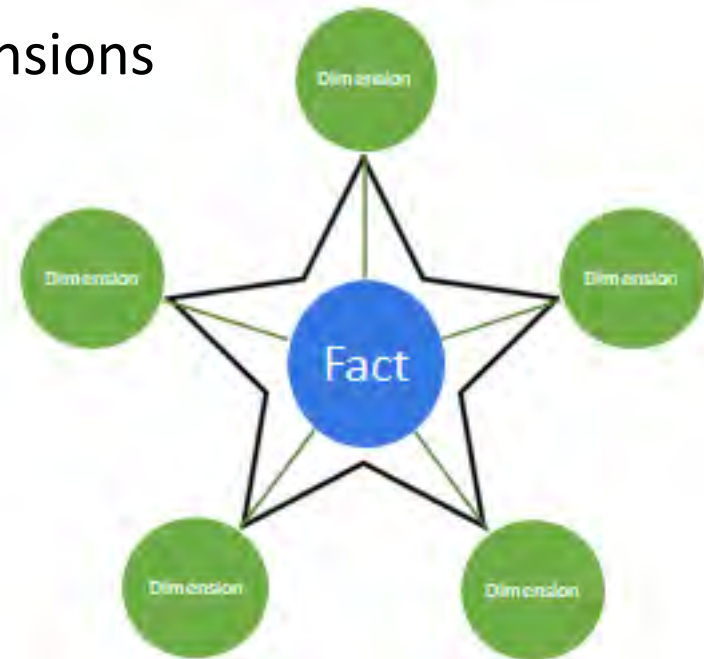
- Finding Incompetence Stand Trial = CONVICTED
- Guilty = CONVICTED
- Motion to Convert Admin Rel = DEFERRED

- **Sentences**

- SENT SUSP-11/29TO 48HRS/\$250/CC/DUI SCH/REV DL 1YR
- SENT SUSP-6 MONTHS/\$100/CC/STAY OUT OF WALMART
- G:11/29 SUSP/SP/NF/PAY COST/CONCURRENT(32955)
- F/C, 2 DAYS JAIL, 11/29 SUP PROB, DUI SCHOOL, 3 DAYS IPSW, 40 HOURS PSW, VICTIM IMPACT PANEL, DL REVOKED 1 YEAR

# Analytics Database

- **Dimensional Model for Analytics and Dashboard Visuals**
  - Used to form data to human-usable metrics
  - Improve data retrieval
  - Defines granularity – what level of detail to view the data
  - Create facts based on dimensions
  - Star schema





# The Criminal History Record – A Call to Action

## **SEARCH Members:**

- Call to action
  - Need engagement/participation/input
- Funding
  - Exploring NCHIP, NCHIP Supplemental, NARIP