

Public Use of MOD IV Data

NJ State League of Municipalities Conference/Association of Municipal Assessors
November 17, 2022

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History of MOD IV

Sue Davison, Retired,
Local Property Branch, Division of Taxation

2



3

THE BEGINNING OF ELECTRONIC DATA PROCESSING

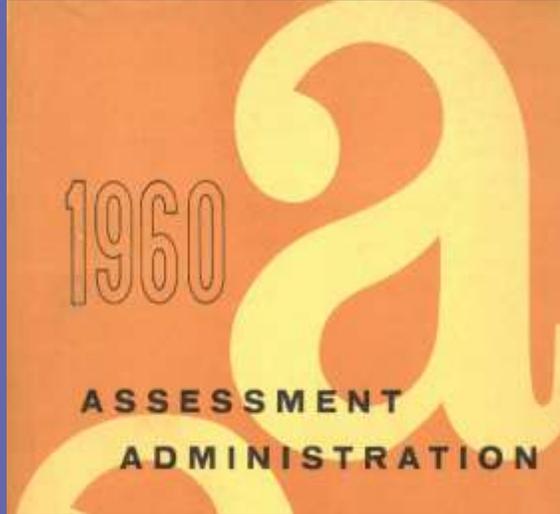
Archive Copy
assessment
administration
1956
22nd international conference
on assessment administration
..... Ltd. Inc.

**The use of
mechanical
equipment to
process and
print tax bills**

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THE BEGINNING OF ELECTRONIC DATA PROCESSING



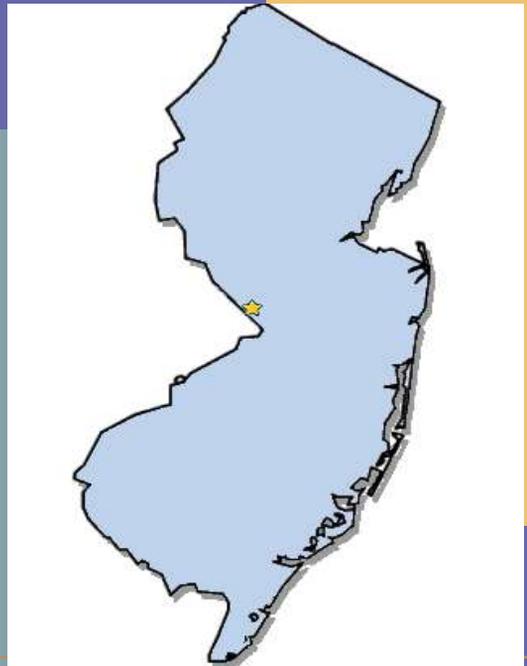
**Mechanization of
Major Property
Assessment and
Property Tax
Administration
and Operations**

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EDP – AMANJ COMMITTEE

Available through AMANJ
A few large taxing district
Printing Tax Roles in the early
60's



4

6

FALL 1966



5

Contract awarded to Applied Data Research in Princeton NJ to develop an electronic data processing program for printing tax lists, tax duplicates and tax bills.

7



TREASURY DEPARTMENT

Program will be written in COBOL

SOMERSET COUNTY
Test County Co-ordinating the Effort

6

Program Available to:

Any County

Any Municipality

Best if used on a county basis

Production of:
Tax List

Abstract of Ratables

Tax Rates

8

APRIL/MAY
1967

Somerset County
Completes EDP Tax List &
Billing Project



William Kingsley
Acting Director
Division of Taxation

"The State Program is
the most Comprehensive
program ever used for
Local Property Tax
Administration in the
nation."

7

All county line items
converted to punch cards
and magnetic tape

9

3- LINE SYSTEM

Common Business-Oriented
Language

COBOL

The system was referred to as the
N.J.P.T.S. 3- Line System

PROPERTY IDENTIFICATION
3 LINE POSTAL ADDRESS FORMAT
LAND – IMPROVEMENT- TOTAL



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EXPANSION & ENHANCEMENTS

1970

**N.J.P.T.S.
4-Line System**

3 – line system
phased out 1974

The first year for the “4-line system in 1970 resulted in the tax list format for the 4-line system being adopted by the Division of Taxation, LPTB as the standard for the production of all tax lists.

9

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4 LINE SYSTEM

Along with the manual Rutgers ran classes In computer applications For the Assessors and County Boards of Taxation

State of New Jersey
DEPARTMENT OF TREASURY
DIVISION OF TAXATION
SIDNEY GLASER, DIRECTOR
LOCAL PROPERTY AND PUBLIC UTILITY BRANCH

THE NEW JERSEY PROPERTY TAX SYSTEM
(Computer Applications in Tax Administration)



PRENTON, NEW JERSEY

OCTOBER 1973

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WHAT WAS PRODUCED?



- Real Property Lists
- Exempt Property List
- Business Personal Property List
- Railroad Property List
- Indexes
- Page Totals
- Extended Duplicates
- Added/Omitted Lists
- Abstract of Ratable
- Table of Aggregates

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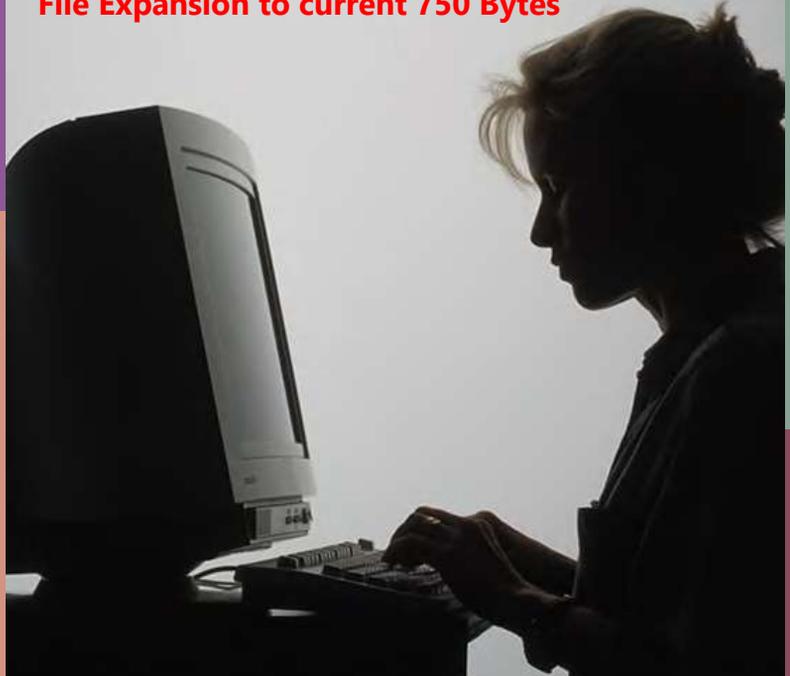
1982 MOD IV

Change Forms

Transition to On-line Transaction Creation Programs

Ability to create Cost Manual on-line

File Expansion to current 750 Bytes



14

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MOD IV

75 – 80 FIELDS OF DATA – TAX ASSESSMENT

COUNTY EQUALIZATION TABLE – FROM THE SYSTEM PLUS CERTAIN ENTERED DATA

COUNTY ABSTRACT OF RATABLES – FROM THE SYSTEM PLUS CERTAIN ENTERED BUDGET INFORMATION

15



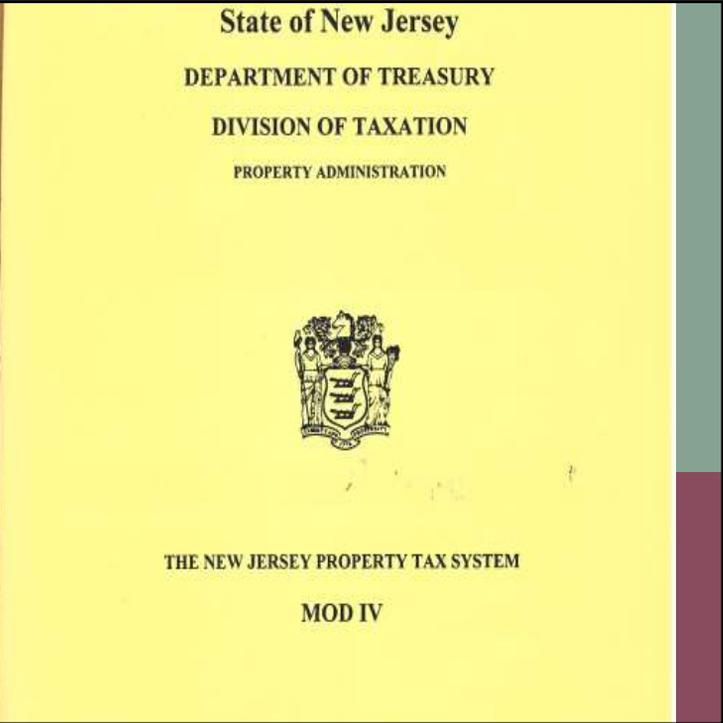
15

NEW JERSEY PROPERTY TAX SYSTEM LEGEND										
QUALIFICATION		BUILDING DESCRIPTION			REAL PROPERTY CLASS CODES		EXEMPT PROPERTY CLASS CODES		LIMITED EXEMPTIONS	
CODE	EXPLANATION	Format: Structure-Style-Dwars	STORIES	STRUCTURE	TAXABLE PROPERTY	EXEMPT PROPERTY CLASS CODES	EXPLANATION	CODE	EXPLANATION	
S	Senior Resident Franchise	D	Single Colonial	I	Industrial	5	Vacant Land	55A	Public Safety Property	
W	Ward Number Franchise	E	English Tudor	J	English Colonial	6	Residential	56	Other Subsidy Property	
C	COMBOS UNIT NO. FRANCHISE	F	English Cot	K	Mobile Home	7	Farmland	57	Fire Suppression System	
LOF	Lot only is assessed	G	Italianate	L	Mobile Home	8	Farmland	58	Pollution Control	
HE	Building only is assessed	H	Italianate	M	Mobile Home	9	Farmland	59	Water Supply Control	
HE	Building only is assessed	AL	Aluminum Siding	N	Mobile Home	10	Farmland	60	Renewable Energy	
B	Backpack Mobile Land	B	Brick	O	Mobile Home	11	Farmland	61	Commercial Indus. Exempt	
SM	Small Part of Taxable Property	C	Brick	P	Mobile Home	12	Farmland	62	Dwelling Exemption	
HL	Highland	F	Brick	Q	Mobile Home	13	Farmland	63	New Dwelling/Conversion Exemption	
FP	Flood Plain	FF	Brick	R	Mobile Home	14	Farmland	64	Multiple Dwelling Exemption	
M	Mobile Home	HC	Brick	S	Mobile Home	15	Farmland	65	Multiple Dwelling Exemption	
PL	Plot Land	S	Brick	T	Mobile Home	16	Farmland	66	Urban Enterprise Zone Abate	
C	Condo Unit	SC	Brick	U	Mobile Home	17	Farmland			
V	Vacant Land	ST	Brick	V	Mobile Home	18	Farmland			
M	Mobile Home	SW	Brick	W	Mobile Home	19	Farmland			
T	Truck Trailer	W	Wood	X	Mobile Home	20	Farmland			
CFARM	Qualified Farmland					21	Farmland			
		A	Commercial	AG	Attached Garage	22	Farmland			
		B	Industrial	UG	Unattached Garage	23	Farmland			
		C	Apartment			24	Farmland			
						25	Farmland			
						26	Farmland			
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						182	Farmland			
						183	Farmland			

THE NJ PROPERTY TAX SYSTEM MOD IV

To understand
the data you
need both the
Legend and the
Manual.

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MOD IV

NJ PROPERTY TAX SYSTEM



PRODUCTION

- TAX LISTS (4)
- EXTENDED TAX DUPLICATES
- Indexes
- Page Totals
- ADDED/OMITTED LISTS
- TABLE OF AGGREGATES
- DISTRICT SUMMARY
- COUNTY EQUALIZATION
- COUNTY ABSTRACT OF RATABLES
- NOTICE OF ASSESSMENT
- LIMITED EX/ABATE TRAIL
- PROOF BOOKS

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WHO OWNS MOD IV ASSESSMENT DATA?

- TAX BOARD IS CUSTODIAN
- MAY CONSTITUTE A PUBLIC RECORD
- MOD IV ON LOAN
- DATA CENTER IS SERVICE BUREAU

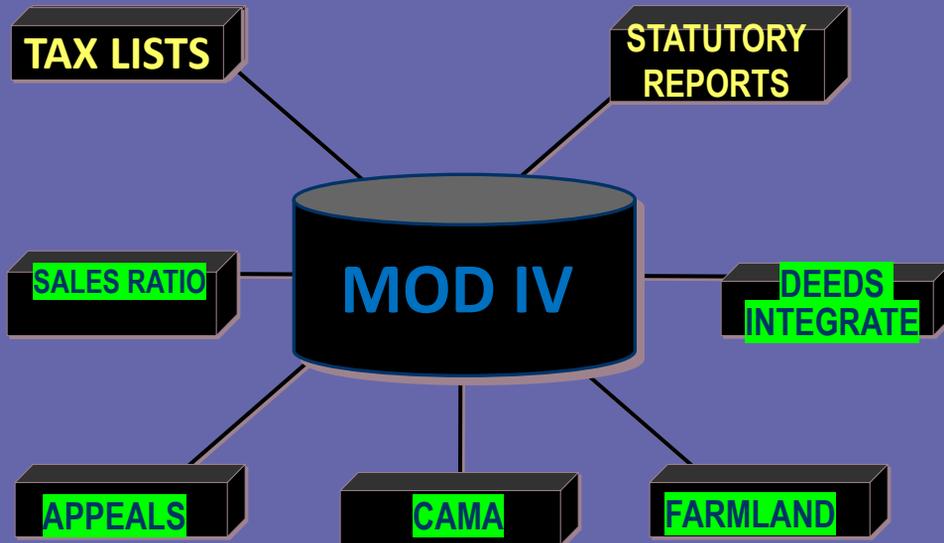
1991 DAG OPINION



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INTERFACES OWNED BY VENDOR



20

League of Municipalities 2012

20

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Assessor's Role in the MOD IV

EDMUND BROWN, CTA

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Role of Assessors' Offices and Staff

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Role of Assessors' Offices and Staff

Per the MODIV user Manual:

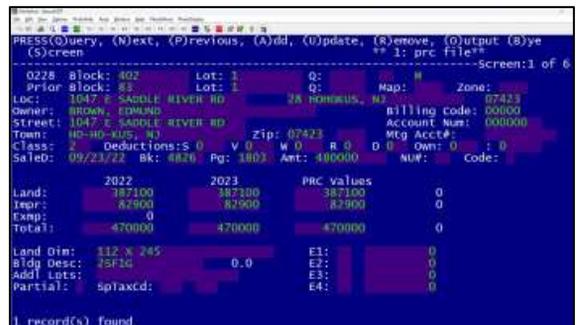
Proper maintenance enables the assessor to produce the statutorily required lists, notices, and reports. These include:

- Tax Lists and Assessment Notices (*Chapter 75*) produced from the tax list file;
- Extended Tax Duplicate with the most current owners of record; and the
- Added and Omitted Assessment List with additional value and most current owner of record.

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Software

- Below are examples of the assessor's screen from the two largest MODIV vendors in the State: BRT & Microsystems.



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Maintaining Assessed Values

- Construction, successful appeals, and a municipality-wide revaluations/reassessments are the most likely causes as to changes in assessed value from year to year.



SR-1A – Deeds

- The assessor processes each deed recorded of a property within their jurisdictional municipality. This keeps ownership information up to date and aids in the Division of Taxations equalization ratio study.



Deductions / Exemptions

- The assessor approves or denies deduction and exemption claims. Approved claims are entered into the MODIV.

This is a form for claiming deductions for veterans or survivors. It includes sections for:

- PROPERTY TAX DEDUCTIONS CLAIMED BY VETERANS OR SURVIVORS FOR FEDERAL HOMELOAN PROGRAMS OF VETERAN HOME SERVICE EMPLOYEES
- PROPERTY TAX DEDUCTIONS CLAIMED BY VETERANS OR SURVIVORS FOR FEDERAL HOMELOAN PROGRAMS OF VETERAN HOME SERVICE EMPLOYEES
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Mailing Addresses

- The assessor maintains the mailing addresses for each property within the municipality. This is used for tax bill and Chapter 75 mailings. Other departments, like Code Enforcement and the Clerk's office might also use MODIV data for their correspondences to property owners and residents.

This is a 'Resident Address Change Form' with the following fields:

- Block _____ Lot _____ Sublot _____
- Property's current Address _____
- Old Mailing Address _____
- New Mailing Address _____
- Owner's Signature _____
- Date _____
- Contact Phone Number _____
- Submitted by _____

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Other MODIV Information

- Building square footages
- Property class
- Land dimensions
- Building description
- Additional lots
- Map page
- Zoning
- Sales history

```

PRESS(O)query, (N)ext, (P)revious, (A)dd, (U)pdate, (R)emove, (O)utput (B)ye
(S)creen          ** 1: prc file**          Screen:1 of 6
-----
0228 Block: 402      Lot: 1      Q:          Map:          Zone:
Prior Block: 83     Lot: 1      Q:          Map:          Zone:
Loc: 1047 E SADDLE RIVER RD      28 HOMERUS, NJ      Billing code: 07423
Owner: BROWN, EDWARD                      Account Num: 000000
Street: 1047 E SADDLE RIVER RD            Mtg Acct#:
Town: HD-HD-KUS, NJ                        Zip: 07423
Class: 2 Deductions: S 0 V 0 W 0 R 0 D 0 Own: 0 ; 0
SaleD: 09/23/22 Bk: 4826 Pg: 1803 Amt: 400000 NUF: Code:

          2022          2023          PRC values
Land:      387100      387100      387100      0
Imp:       82900      82900      82900      0
Exp:        0         0         0         0
Total:    470000      470000      470000      0

Land Dim: 112 X 245
Bldg Desc: 2BFLG      0.0      E1: 0
Add Lots:              E2: 0
Partial: 5ptaxcd:     E3: 0
                          E4: 0
1 record(s) found
  
```

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Role of the County Tax Board Administrator in MOD IV

Diane Hesley, County Tax Administrator,
Camden County

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Introducing the Historical MOD IV Database

Marc Pfeiffer, Assistant Director
Bloustein Local Government Research Center, Rutgers

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N.J. MOD IV Historical Database

Home Page
About Page
Register Page
Login Page

Welcome to the NJ. MOD IV Historical Database (HDB)!

This is searchable database with download capability that includes over 30 years of New Jersey real estate parcel data maintained by municipal assessors. The About Page includes details about what is in the database, it's features, usage tools, and some simple rules about its use.

You can register for free to use the HDB [here](#) (also via the link to your left). Once you register and acknowledged our terms you will also be brought to the [About Page](#).

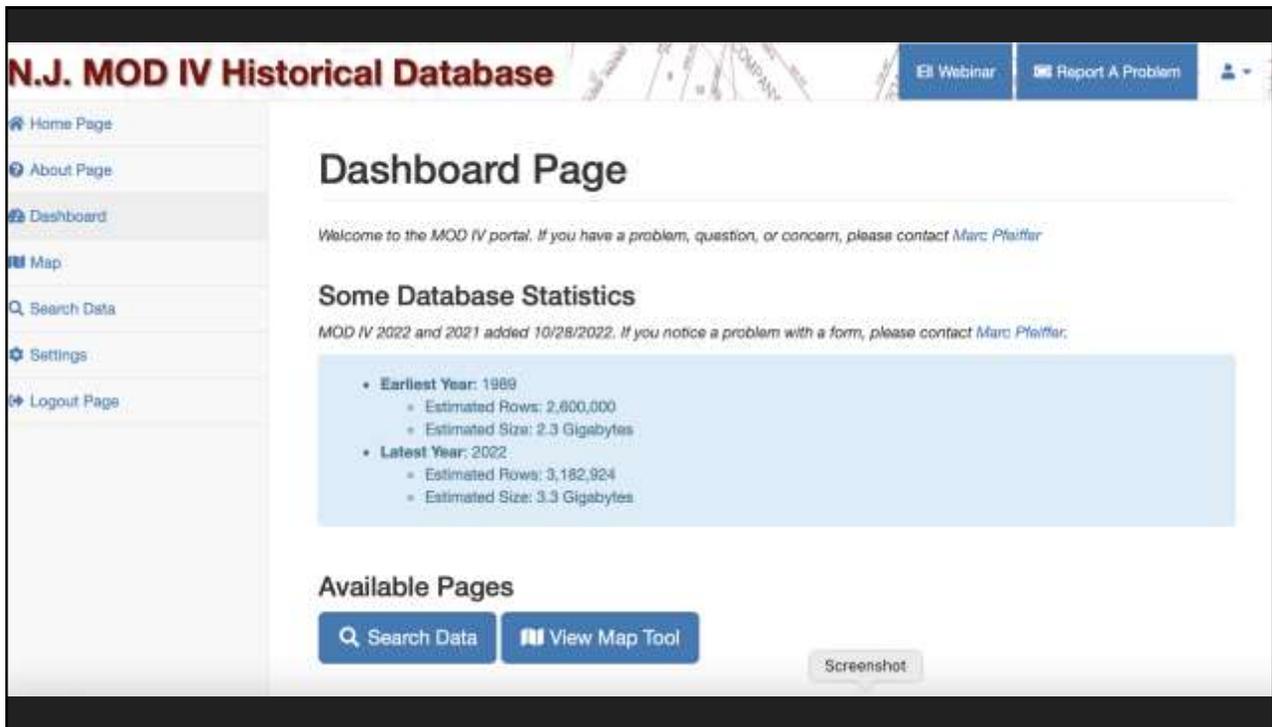
The HDB is a project of the Bloustein Local Government Research Center, a unit of the Bloustein School of Planning and Public Policy at Rutgers, and financially supported by the NJ Department of Community Affairs. The development of the database and application was undertaken by, and is managed by the Office of Research Analytics of the New Jersey Agricultural Research Station, a unit of the Rutgers School of Environmental and Biological Sciences (aka, Cook College, the original Rutgers Land Grant College).

DCA NJ DEPARTMENT OF Community Affairs
RUTGERS Edward J. Bloustein School of Planning and Public Policy
RUTGERS New Jersey Agricultural Experiment Station

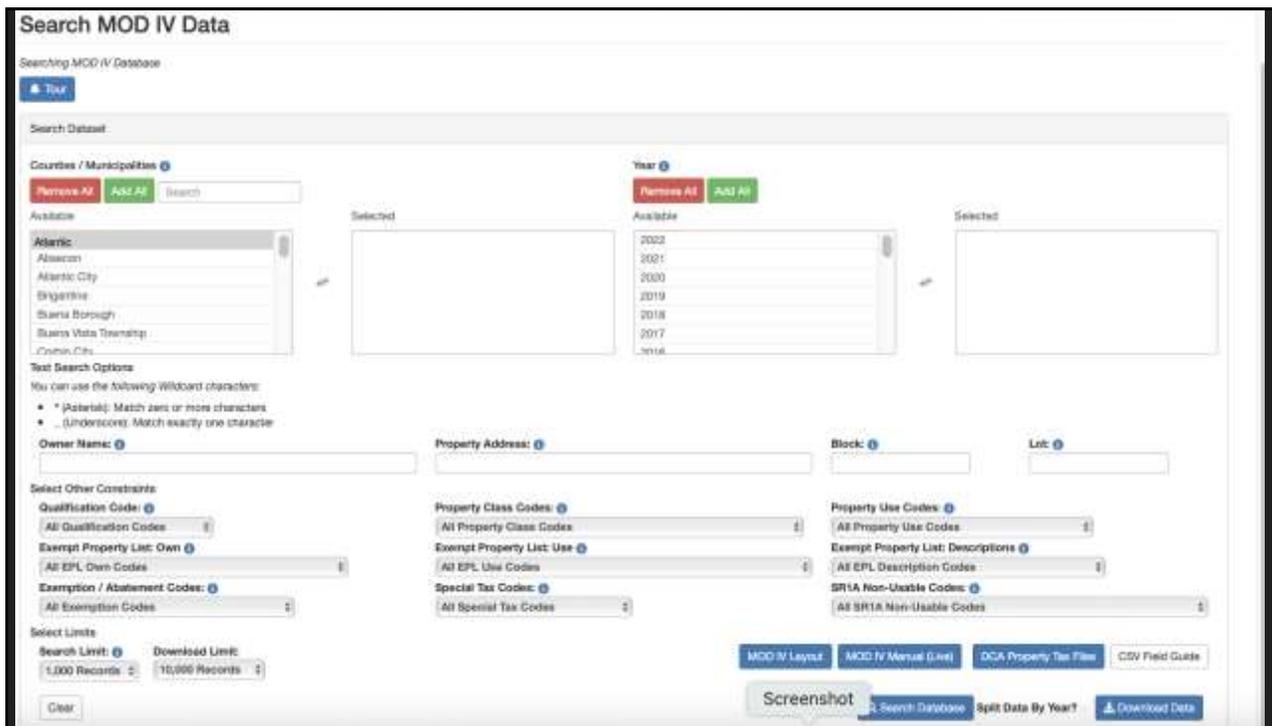
Access the Database at: <http://modiv/rutgers.edu>

Screenshot

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Challenges of Working with MOD IV

Lucas Marxen, Associate Director
Office of Research Analytics, NJ AES

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Challenges Working with MOD-IV Data

- Data Ingestion/Quality
 - How do we accurately extract the data provided by the MOD-IV system?
- Data Use/Analysis
 - How do we use the data and what issues do we face?

Rutgers Office of Research Analytics

MOD IV ID #17030, Year 2022

Record Data
This property record has other year's MOD IV associated with it.
Record Key: 010060472 50002 20

2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

Basic Information
Record Key: [input]
RESIDENT: [input] OWNER: [input]

County: ATLANTIC
Municipality: Atlantic City (County Code: 0102)
Block: 473 Lot: 2 Qualifier: UNKNOW
Record ID: 00

Property Information
Year Constructed: 9900
Property Location: 1 CONVENTEN BOX,WARD
Property Class Code: Other Exempt Properties (Code: 15F)
Property Use Code: No Code (Code:)
Property Flags:
Building Description: 0000
Land Description: 1242.219244 916
Calculated Acreage: Acre

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Data Ingestion/Quality – Data Standardization

- Building Description
- Examples of what we are seeing
 - FUTURE UNKNOWN
 - HAWK POINT COMM
 - 3S-F-AG 2S-B
 - 2S-F-L-2S BARN
 - 4.4 MI 23232 FT

Building Description Field (13) - fifteen alpha-numeric characters. The information in a description should be listed in the following order: stories, exterior structural material, style, number of units, and type of garage. The listed codes may be supplemented according to need. The building description codes are listed below:

STORIES:

S Prefix S with number of stories.

STRUCTURE:

AL	Aluminum siding	RC	Reinforced concrete
B	Brick	S	Stucco
CB	Concrete Block	SS	Structural Steel
F	Frame	ST	Stone
M	Metal	W	Wood

STYLE:

A	Commercial	S	Split Level
B	Industrial	T	Twin
C	Apartments	WF	Row home
D	Dutch Colonial	X	Duplex
E	English Tudor	Z	Raised Rancher
L	Colonial	O	Other
M	Mobile Home	2	Bi-Level
R	Rancher	3	Tri-level

GARAGE:

AG	Attached Garage	UG	Unattached Garage
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Rutgers Office of Research Analytics

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Data Ingestion/Quality – Data Standardization

- Property Use Codes
 - Clearly identified as requiring a three-digit code provided in the MOD-IV manual
 - Examples of Data in the database:
 - Users entering Property Class codes
 - 4A, 4C, 5
 - Property Use Codes Not Listed in Manual
 - 444, 490, 499
 - Gibberish
 - “ /”
 - “,25”
 - CON

REFERENCE B
Class 4 Use Codes (Field 4C)
These Use Codes are used to describe the specific use of commercial property.

CODE	USE	CODE	USE
400	APARTMENT	490	LUNARVALE
401	APT - GARDEN	491	LATHERY CLEANERS
402	APT - FRONTIER	492	LIBRARY
403	APT - OTHER	493	MARINA
404	APPROXIMATELY	494	MARINA - DOUBLE
405	APPROXIMATELY	495	MOBILE HOME
406	APPROXIMATELY	496	MOBILE HOME
407	APPROXIMATELY	497	OFFICE - GENERAL
408	APPROXIMATELY	498	OFFICE - GROUP HEADQUARTERS
409	APPROXIMATELY	499	OFFICE - MEDICAL - OPTIC - HEALTH
410	APPROXIMATELY	500	OFFICE - ENGINEERING - REMEDIATION
411	APPROXIMATELY	501	OFFICE - MANAGEMENT
412	APPROXIMATELY	502	OFFICE - RECEPTION
413	APPROXIMATELY	503	OFFICE - STORES
414	APPROXIMATELY	504	OFFICE - OTHER
415	APPROXIMATELY	505	POST OFFICE
416	APPROXIMATELY	506	FOOD & BEVERAGE PROCESSING
417	APPROXIMATELY	507	SHAWTY - FOOD - SALES
418	APPROXIMATELY	508	BAR - NIGHT
419	APPROXIMATELY	509	BAR - NIGHT
420	APPROXIMATELY	510	BAR - NIGHT
421	APPROXIMATELY	511	BAR - NIGHT
422	APPROXIMATELY	512	BAR - NIGHT
423	APPROXIMATELY	513	BAR - NIGHT
424	APPROXIMATELY	514	BAR - NIGHT
425	APPROXIMATELY	515	BAR - NIGHT
426	APPROXIMATELY	516	BAR - NIGHT
427	APPROXIMATELY	517	BAR - NIGHT
428	APPROXIMATELY	518	BAR - NIGHT
429	APPROXIMATELY	519	BAR - NIGHT
430	APPROXIMATELY	520	BAR - NIGHT
431	APPROXIMATELY	521	BAR - NIGHT
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434	APPROXIMATELY	524	BAR - NIGHT
435	APPROXIMATELY	525	BAR - NIGHT
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439	APPROXIMATELY	529	BAR - NIGHT
440	APPROXIMATELY	530	BAR - NIGHT
441	APPROXIMATELY	531	BAR - NIGHT
442	APPROXIMATELY	532	BAR - NIGHT
443	APPROXIMATELY	533	BAR - NIGHT
444	APPROXIMATELY	534	BAR - NIGHT
445	APPROXIMATELY	535	BAR - NIGHT
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447	APPROXIMATELY	537	BAR - NIGHT
448	APPROXIMATELY	538	BAR - NIGHT
449	APPROXIMATELY	539	BAR - NIGHT
450	APPROXIMATELY	540	BAR - NIGHT
451	APPROXIMATELY	541	BAR - NIGHT
452	APPROXIMATELY	542	BAR - NIGHT
453	APPROXIMATELY	543	BAR - NIGHT
454	APPROXIMATELY	544	BAR - NIGHT
455	APPROXIMATELY	545	BAR - NIGHT
456	APPROXIMATELY	546	BAR - NIGHT
457	APPROXIMATELY	547	BAR - NIGHT
458	APPROXIMATELY	548	BAR - NIGHT
459	APPROXIMATELY	549	BAR - NIGHT
460	APPROXIMATELY	550	BAR - NIGHT
461	APPROXIMATELY	551	BAR - NIGHT
462	APPROXIMATELY	552	BAR - NIGHT
463	APPROXIMATELY	553	BAR - NIGHT
464	APPROXIMATELY	554	BAR - NIGHT
465	APPROXIMATELY	555	BAR - NIGHT
466	APPROXIMATELY	556	BAR - NIGHT
467	APPROXIMATELY	557	BAR - NIGHT
468	APPROXIMATELY	558	BAR - NIGHT
469	APPROXIMATELY	559	BAR - NIGHT
470	APPROXIMATELY	560	BAR - NIGHT
471	APPROXIMATELY	561	BAR - NIGHT
472	APPROXIMATELY	562	BAR - NIGHT
473	APPROXIMATELY	563	BAR - NIGHT
474	APPROXIMATELY	564	BAR - NIGHT
475	APPROXIMATELY	565	BAR - NIGHT
476	APPROXIMATELY	566	BAR - NIGHT
477	APPROXIMATELY	567	BAR - NIGHT
478	APPROXIMATELY	568	BAR - NIGHT
479	APPROXIMATELY	569	BAR - NIGHT
480	APPROXIMATELY	570	BAR - NIGHT
481	APPROXIMATELY	571	BAR - NIGHT
482	APPROXIMATELY	572	BAR - NIGHT
483	APPROXIMATELY	573	BAR - NIGHT
484	APPROXIMATELY	574	BAR - NIGHT
485	APPROXIMATELY	575	BAR - NIGHT
486	APPROXIMATELY	576	BAR - NIGHT
487	APPROXIMATELY	577	BAR - NIGHT
488	APPROXIMATELY	578	BAR - NIGHT
489	APPROXIMATELY	579	BAR - NIGHT
490	APPROXIMATELY	580	BAR - NIGHT
491	APPROXIMATELY	581	BAR - NIGHT
492	APPROXIMATELY	582	BAR - NIGHT
493	APPROXIMATELY	583	BAR - NIGHT
494	APPROXIMATELY	584	BAR - NIGHT
495	APPROXIMATELY	585	BAR - NIGHT
496	APPROXIMATELY	586	BAR - NIGHT
497	APPROXIMATELY	587	BAR - NIGHT
498	APPROXIMATELY	588	BAR - NIGHT
499	APPROXIMATELY	589	BAR - NIGHT
500	APPROXIMATELY	590	BAR - NIGHT

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Data Ingestion/Quality – Data Standardization

- Property Qualifier Codes
- Entries that do not conform with required codes
 - Not correctly using fields such as MXXX, DXXX, etc.
 - Lots of QXXXX instead of QFARM

The only codes that may be used are listed below:

- X - Indicates the line item is an exempt portion of a taxable parcel, the taxable portion of which is listed immediately preceding. (See Reference D)
- T - Cell Tower - followed by a two-digit number from 01 to 99 indicating the cell tower number within the municipality
- B - Billboard - followed by a two-digit number from 01 - 99 indicating the billboard number within the municipality.
- Y - Renewable energy.
- QFARM - Designates qualified farmland.
- LOT - Indicates the land, separately assessed from the building.
- BLDG - Indicates the building, separately assessed from the land.
- CXXXX - Indicates a condominium unit. (Substitute the unit number for the X's).*
- PXXXX - Indicates a parking space unit. (Substitute the unit number for the X's).*
- DXXXX - Indicates a district unit. (Substitute the unit number for the X's).*

*Note: A unit number may be numeric, alpha or alpha/numeric. If more than one qualification code is to be used, they are not to be separated by commas or characters.

Qualification codes may be used to make the property identification unique among others with the same block and lot designation. I.e. condominiums may be differentiated by using the same block and lot and a qualification code "C" followed by four numeric characters. Leading zeros are required in the qualification codefield to maintain numeric sequence: Block 1 Lot 1 C0001

- MXXXX - Indicates a mobile home. (Substitute the unit number for the X's).
- FP - Indicates that the line item is the portion of a plot or parcel that lies within the Flood Plain.
- HL - Indicates the line item is the portion of a plot or parcel that lies within the Highlands under Ch. 120, P.L. 2004.
- HM - Indicates the line item is located within the jurisdiction of the Hackensack Meadowslands Development Commission.
- PL - Indicates the line item is the portion of a plot or parcel that lies within the Pinelands.
- Z - Indicates that the line item is the portion of a plot or parcel that lies within the Coastal Zone.
- L - Indicates the line item is the portion of a plot or parcel that lies within the Wetlands.
- W - Ward - followed by a two-digit number from 01 to 99 indicating the ward in which the property is located.
- S - Sector - followed by a two-digit number from 01 to 99 indicating the sector in which the property is located.

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Data Ingestion/Quality – Data Standardization

- General Issues
 - Handling of special characters and decimal points
 - Incomplete records
 - 2003 and 2004 had multiple records with less than 700 characters
 - Not sure of cause, system error/incomplete data/wrong data

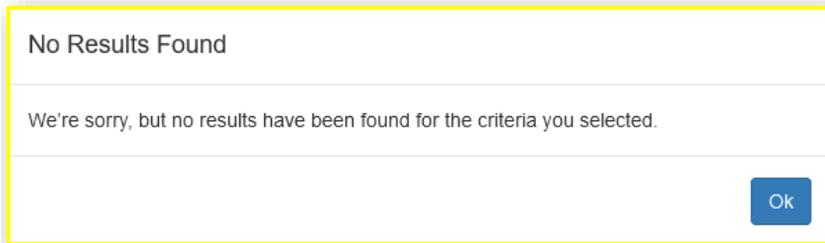
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Data Ingestion/Quality – Data Standardization

- Incomplete/Unused Fields
 - Zoning Data
 - How many properties in NJ are identified as being in a flood plain as part of the MOD-IV Qualification Code?



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Data Use/Analysis Challenges

- Tracking properties through time
 - Importance of complete/proper use of 'Old Block/Old Lot' fields
 - Changes in property classes over time
 - Farmland parcels going in/out of Property Class 3B status
- Zoning Data
 - Most often requested data field for MOD-IV data use
 - Sparsely populated throughout database
- Calculated Acreage
 - Often used in analysis
 - Needs to be consistently derived
 - Issues with Condo/Apartment Units, multiple counting of acreage
- Mapping Data
 - Parcel Data and MOD-IV never quite in sync
 - No mailing/zipcode information in MOD-IV for geocoding locations

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MOD IV and BPU Benchmarking of Energy and Water Use for Commercial Structures Over 25K sq.ft.

Philip Chao, Climate Fellow
NJ Board of Public Utilities

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How the Office of GIS utilizes the Mod IV

Stephen Eckhardt, GISP
Spatial Data Development, OGIS
NJ Office of Information Technology

Video: MOD IV and NJ Office of Geographic Information Systems

Stephen Eckhardt, GISP
Spatial Data Development, NJ OGIS/OIT

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Microsoft Teams

Meeting with Lawson, Matthew

2022-11-16 19:56 UTC

Hosted by: Lawson, Matthew Organized by: Lawson, Matthew

Matthew Lawson, Principal Transportation Planner, Mercer County

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MOD IV User Comments

2022 League of Municipalities Conference
 Municipal Assessor Session: Public Use of MOD IV Data
 November 17, 2022

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General

- Lots of interest in working on improvement and participating with Taxation and assessors on it
- Mod IV plays a significant role in state and local government and private sector activities
- Starting with small steps can produce big value over time
- Communication to users when significant changes take place – likes changes in Municipal Code or name

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More Use Cases

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- Define property level flood risk for County/Municipality Hazard Mitigation Plans
- Using the data to identify old apartment buildings at risk of flood damage that would be problematic with regards to repair/retrofit to try and identify strategies for
- Developing an automated build-out analysis tool that would rely heavily on MOD-IV and parcel data – challenge is zoning data
- Statewide mobile LiDAR analysis that would provide elevation data for every building/parcel in the state (including first floor elevation which could be critical for better estimations of economic impacts from flooding).

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Department of Community Affairs

- Show the percentage of properties in each municipality built before 1978 as part of programmatic development and evaluation to address lead poisoning
 - NJ DEP uses those same data to show the percentage of properties in each municipality built before 1978 in its [Potential Lead Exposure Map](#)
- Community Asset Map to make property address, property classification, tax assessment, and ownership address information available and accessible for all tax parcels.
- Property class codes are also used to evaluate the location of commercial vs. residential uses for program and plan development purposes.
- Assist municipalities with the development of land-use plans that incorporate an analysis of existing land-use conditions.
- Parcel-level property type data that are used in its public-facing property tax statistics. Residential (2) and Farm Regular (3A) property class codes are used in computing average residential assessments (which are in turn used to compute average property taxes).
- SR1A database provides information intended to help inform business decisions being made by private development and redevelopment investors.

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SJ Industries (natural gas utility)

- Cannot stress the importance of the address data of the MOD IV that is our foundation of where and any of our assets are located.
- Standard way of standardizing customer addresses
- Use property class code along with the property location fields.

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NJDEP Bureau of GIS

- Parcel class and property use codes is a critical element of managing and updating the state's Land Use/Land Cover (LU/LC) layer of the state's GIS system. In addition to using various form of aerial photo-imagery and USGS classification systems, MOD IV is the parcel data base and tax map driven parcel layer.
- Another helpful attribute are building description codes with the number of floors and building construction.
 - Helpful in studies looking at flood hazard and resiliency planning in that the building construction and assessing some of the risk factors of a property. Keeping them updated is important

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NJ Office of Emergency Management

- Uses data in an application to help mitigate the flood risk to individual structures.
- Help determine risk profiles across NJ's communities.
 - Used to populate FEMA's HAZUS software and other damage estimation tools.
- Assessing data in a post disaster environment can be greatly aided by MODIV data
- Statewide mobile LiDAR analysis that would provide elevation data for every building/parcel in the state (including first floor elevation which could be critical for better estimations of economic impacts from flooding).
- Potential to better inform the economics of flood insurance, the scale scope and appropriateness of long term infrastructure investments, and the implementation of NFIP floodplain management requirements.

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NJ Office of Planning Advocacy (State Plan)

- MOD IV data is particularly valuable for a municipality when updating its zoning ordinances and master plans. Given the use of variances, existing zoning cannot be relied on. It would be a far more accurate picture of municipal land use to know what the "on-the-ground" situation is.
- The data is particularly useful when determining conditional uses (such as major warehouse siting) and determinants of sensitive receptors of "dirty uses", such as mobile sources of pollutants, where truck routes should be placed, and other land use considerations such as flooding and stormwater management.
- MOD IV data can also be used to identify preserved farmland (and preserved open space?) and help with (accurate) vacant land analyses.
- It has been underutilized and if connected for planning and land use purposes it can have greater value and used for State Plan and local planning purposes

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Additional Opportunities

- Connecting with other MOD-IV data such as
 - FA-1 Farmland Assessment records - could be important for biosecurity issues such as avian influenza or other crop/livestock diseases)
 - Zoning data (people constantly ask about this)
 - Better data regarding upgrades/modifications to buildings (just have year built, not sure what happens if a home is renovated or say elevated in a flood prone areas)

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Challenges (1)

- When data fields (property class in particular) are left blank or inaccurate, the validity of geospatial analysis can be significantly impacted: e.g., average property taxes and farm classifications (3 and 3A)
 - Property use code doesn't appear to be always entered in the data base for most of the parcels.
 - Data that is not consistent statewide (but could be great if it was)
 - SR-1A property class codes (especially in redevelopment areas and new subdivisions) are frequently not updated

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Challenges (2)

- Properties with multiple tax parcels “additional lots” fields are not consistently recorded
- Inconsistent naming conventions and spelling for property location (address) and parcel ID number (Block and Lot)
- Building description codes do not always follow the correct order or are not the correct codes

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Discussion

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