



COVID-19 Data Initiatives

INDIANA DEPARTMENT OF CORRECTION

SARAH SCHELLE, EXEC. DIRECTOR OF DATA SCIENCE AND ANALYTICS

“It is a capital mistake to theorize before one has data.”

- SIR ARTHUR CONAN DOYLE

COVID-19 Data Initiatives

- Disease Progression Projections
- Dashboards
- Social Network Analysis

Disease Progression Projections

Disease Progression Projections

- Produced a projection for possible impact for offenders and staff
 - Facility specific
 - Department-wide
- Included Information
 - Basic staff, offender, and facility information
 - Projections (77 day disease progression)
 - Exposed
 - Infectious
 - Hospitalized
 - Fatalities

Monday, April 21, 2020



Indiana State Prison

FACILITY-SPECIFIC PROJECTION



2,858 prisoners reside in the facility



364 prisoners over 55



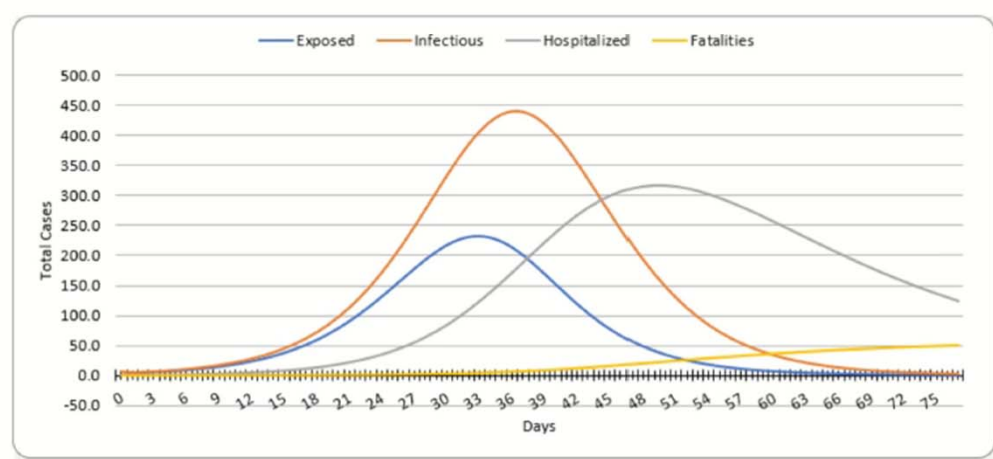
Prisoners housed in cells and dorms*



495 staff work in the facility



140 COVID-19 cases nearby counties



Day 0—4/21 *model assumes cells

Incarcerated population (totals)	Impact Projections			
	In 1wk	In 2wk	In 3wk	Overall
Cases	34	117	359	2,543

Dashboards

DOC Covid-19 Informational Dashboard

Information from this dashboard is collected from ISDH, MPH, and SPD
Information is updated every weekday at 12:30pm

If you have questions about the Department's response to COVID-19, please contact the [Information Center](#)

Click the link below to go to the Indiana Totals Dashboard:

- County Reporting Data
- Indiana Reporting Data
- Death Count Trend
- Positive Count Trend
- Tested Count Trend
- Link to ISDH Coronavirus webpage

[Indiana Totals Dashboard](#)

Click the button below to go to the DOC Totals Dashboard:

- Number of DOC positive cases
 - broken down by Staff and Offender
- Number of new positive cases each day
 - broken down by Staff and Offender
- Trend of positive DOC cases
 - broken down by Staff and Offender
- Total Number of DOC positive cases by facility

[DOC Totals Dashboard](#)

Informational Documents:

- CDC Guidelines and IDOC Guidance
- Letters from the Commissioner
- Videos

[Resources](#)

- COVID 19 PPE Inventory
- Individual Staff Response
- Risk Assessment
- Facility Information Summary

[Reports](#)

Important Information:

Information Center Hours: 8:00 am - 4:00 pm
Information Center Email:

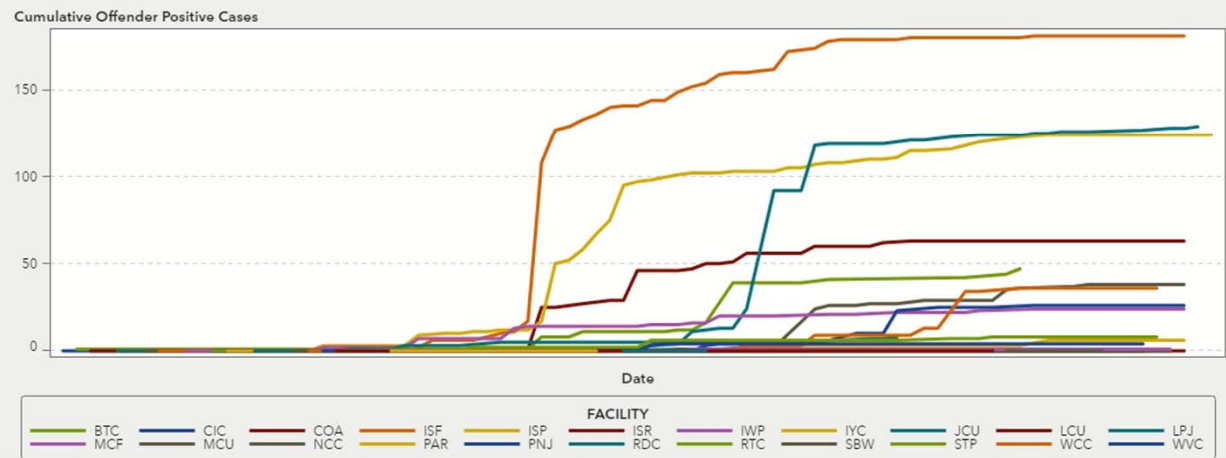
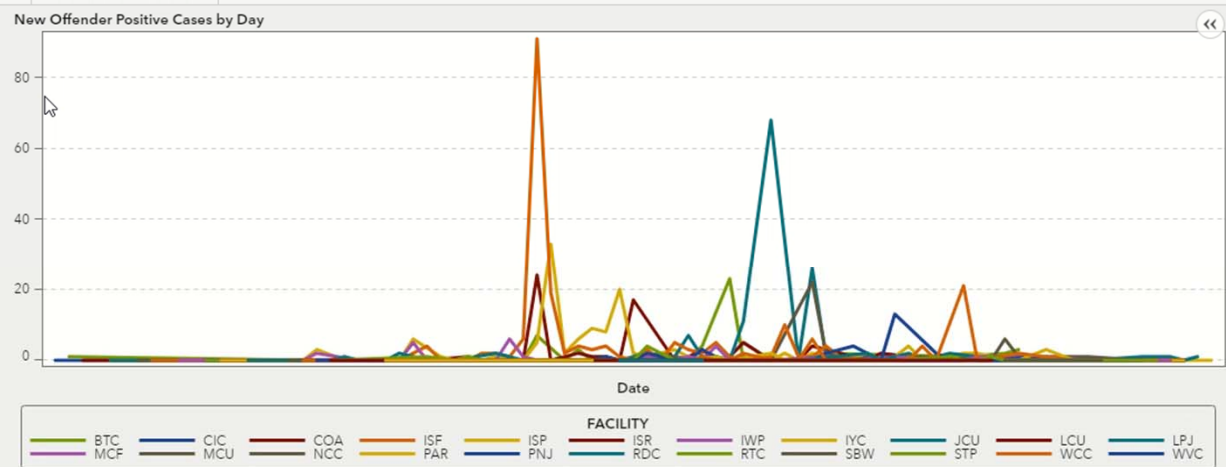
Contact Information

Name	Division	Phone
Doug Parks	Personnel	317-499-1477
Deputy Chief Jaime Raderstorf	Operations	317-767-7746
Olivia Beard	Medical	317-308-9942
Information Center		317-233-4745

If you are having trouble with this dashboard, please contact the [Division of Data Science and Analytics](#)

Offenders Staff Total Deceased Offenders

- ☐ BTC
- ☐ CIC
- ☐ COA
- ☐ ISF
- ☐ ISP
- ☐ ISR
- ☐ IWP
- ☐ IYC
- ☐ JCU
- ☐ LCU
- ☐ LPJ
- ☐ MCF
- ☐ MCU
- ☐ NCC
- ☐ PAR
- ☐ PNJ
- ☐ RDC
- ☐ RTC
- ☐ SBW
- ☐ STP
- ☐ WCC
- ☐ WVC

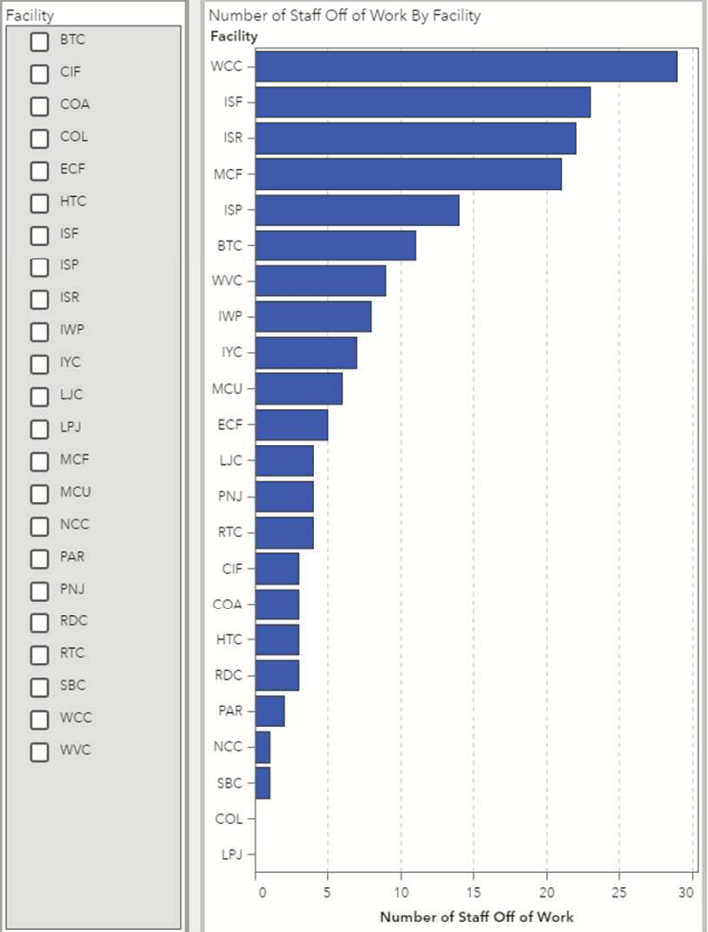


FACILITY	Date	New Offender Positive Cases b...	Cumulative Offender
IYC	04/19/2062	0	
RDC	05/27/2029	1	
COA	06/04/2020	0	
IYC	06/04/2020	0	
NCC	06/04/2020	0	
WCC	06/04/2020	0	
RDC	06/04/2020	0	
IWP	06/04/2020	0	
ISP	06/04/2020	0	
ISR	06/04/2020	0	
PNJ	06/04/2020	0	
MCU	06/03/2020	0	
RDC	06/03/2020	1	
MCF	06/03/2020	0	
NCC	06/03/2020	0	
BTC	06/02/2020	0	
ISF	06/02/2020	0	
IYC	06/02/2020	0	
NCC	06/01/2020	0	
WVC	06/01/2020	0	
ISF	06/01/2020	0	
RTC	06/01/2020	0	
MCF	06/01/2020	0	
CIC	06/01/2020	0	
BTC	06/01/2020	0	
ISP	06/01/2020	0	
RDC	06/01/2020	1	
ISF	05/30/2020	0	
ISP	05/30/2020	0	
ISR	05/29/2020	0	
WCC	05/29/2020	0	
WVC	05/29/2020	0	

Indiana Totals DOC Totals Job Exposure Housing Exposure Program Exposure Staff Return to Work

- ☐ BTC
- ☐ CHW
- ☐ IRT
- ☐ ISF
- ☐ ISO
- ☐ ISP
- ☐ ISR
- ☐ IWP
- ☐ IYC
- ☐ JCU
- ☐ NCF
- ☐ STP
- ☐ WCC
- ☐ WCU
- ☐ WVA

DOCNUM ▲	Last Name	First Name	EPRDT	Facility	Job	Job Start Date	Job End Date	Positive Offender	Possible Exposure Date
				IWP	OFFICE CLERK - CLASS B	12/11/2019			020
				ISP	PROGRAM PARTICIPANT - CLASS A	08/15/2019			020
			2041	WCU	PROGRAM PARTICIPANT - CLASS D	01/23/2019			020
				ISR	PROGRAM PARTICIPANT - CLASS D	06/03/2019			020
			2020	ISF	GENERAL LABORER - CLASS D	01/24/2020			020
			2024	WCC	PROGRAM PARTICIPANT - CLASS D	05/19/2020			020
			2021	BTC	PROGRAM PARTICIPANT - CLASS D	03/09/2020			020
			2023	BTC	PROGRAM PARTICIPANT - CLASS D	02/17/2020			020
			2020	IYC	LEAD WAREHOUSE WORKER - CLASS A	10/09/2019			020
			2022	NCF	CUSTODIAN - CLASS C	04/01/2020			020
			2020	IWP	SECONDARY/GED STUDENT AD - CLASS D	02/26/2020			020
				ISR	LEAD UTILITY - CLASS A	04/17/2015			020
				IRT	LEAD UTILITY - CLASS A	12/17/2019			020
				WCC	LEAD CLERK - CLASS A	12/31/2019			020
			2025	WCC	PROGRAM PARTICIPANT - CLASS D	02/20/2020			020
			2025	WCC	PROGRAM PARTICIPANT - CLASS D	10/15/2019			020
			2025	WCC	PROGRAM PARTICIPANT - CLASS D	03/24/2020			020
			2020	BTC	PROGRAM PARTICIPANT - CLASS D	01/27/2020			020
			2022	ISF	LABOR CREW WORKER - CLASS B	01/08/2020			020
			2029	IYC	LEAD CLERK - CLASS A	08/26/2019			020
			2029	IYC	OFFICE CLERK - CLASS B	06/01/2020			020
			2021	STP	SANITATION WORKER HELPER (GEN) - CLASS D	04/21/2020			020
			2021	STP	PROGRAM PARTICIPANT - CLASS D	01/21/2020			020
			2021	NCF	CUSTODIAN - CLASS C	04/01/2020			020
			2021	IYC	CUSTODIAL WORKER - CLASS D	03/03/2020			020
			2023	ISF	MESSENGER - CLASS C	02/05/2020			020
			2020	STP	PROGRAM PARTICIPANT - CLASS D	04/06/2020			020
			2021	WCC	CUSTODIAL WORKER - CLASS D	12/17/2019			020
			2020	IYC	CUSTODIAL WORKER - CLASS D	12/10/2019			020
			2020	IYC	LABOR CREW HELPER - CLASS C	03/25/2020			020
			2021	WCC	PROGRAM PARTICIPANT - CLASS D	06/06/2019			020
			2025	ISF	GENERAL LABORER - CLASS D	01/31/2020			020



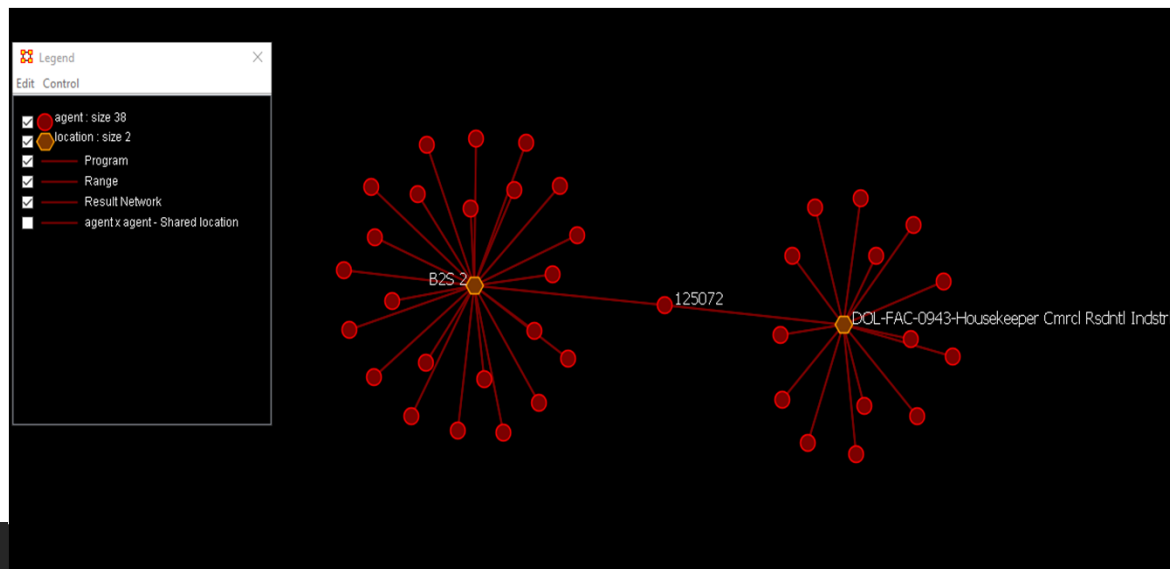
List of Staff Off of Work

Employee Name	Facility	Symptom Start Date	Test Date	RESULT	Day Sent Home	Return to Work Date	Type of Leave
	MCF	-	-				No
	WVC	05/03/2020	05/05/2020				
	HTC	-	04/20/2020				
	ECF	-	04/05/2020				
	MCU	-	04/17/2020				
	PAR	-	-				Yes
	MCF	-	-				No
	LJC	-	-				
	ISF	-	05/26/2020				EPSL
	ISP	-	-				PHE
	WCC	-	04/15/2020				
	ISF	-	05/01/2020				EPSL
	SBC	-	-				None/Self
	WCC	-	-				
	ISR	-	04/29/2020				EPSL
	ISR	-	-				
	RTC	-	-				EPSL
	WCC	-	-				
	IYC	-	05/29/2020				EPSL
	ISF	-	-				EPSL
	ISF	-	-				EPSL
	MCF	-	-				
	WVC	-	05/21/2020			06/05/2020	
	ISF	-	05/28/2020				EPSL
	BTC	-	05/05/2020				EPSL
	MCU	-	-				
	RTC	03/27/2020	-				both
	ISR	-	-				PHE
	ISP	-	-				PHE
	ISP	-	-				PHE
	ISR	-	05/22/2020				EPSL

Social Network Analysis

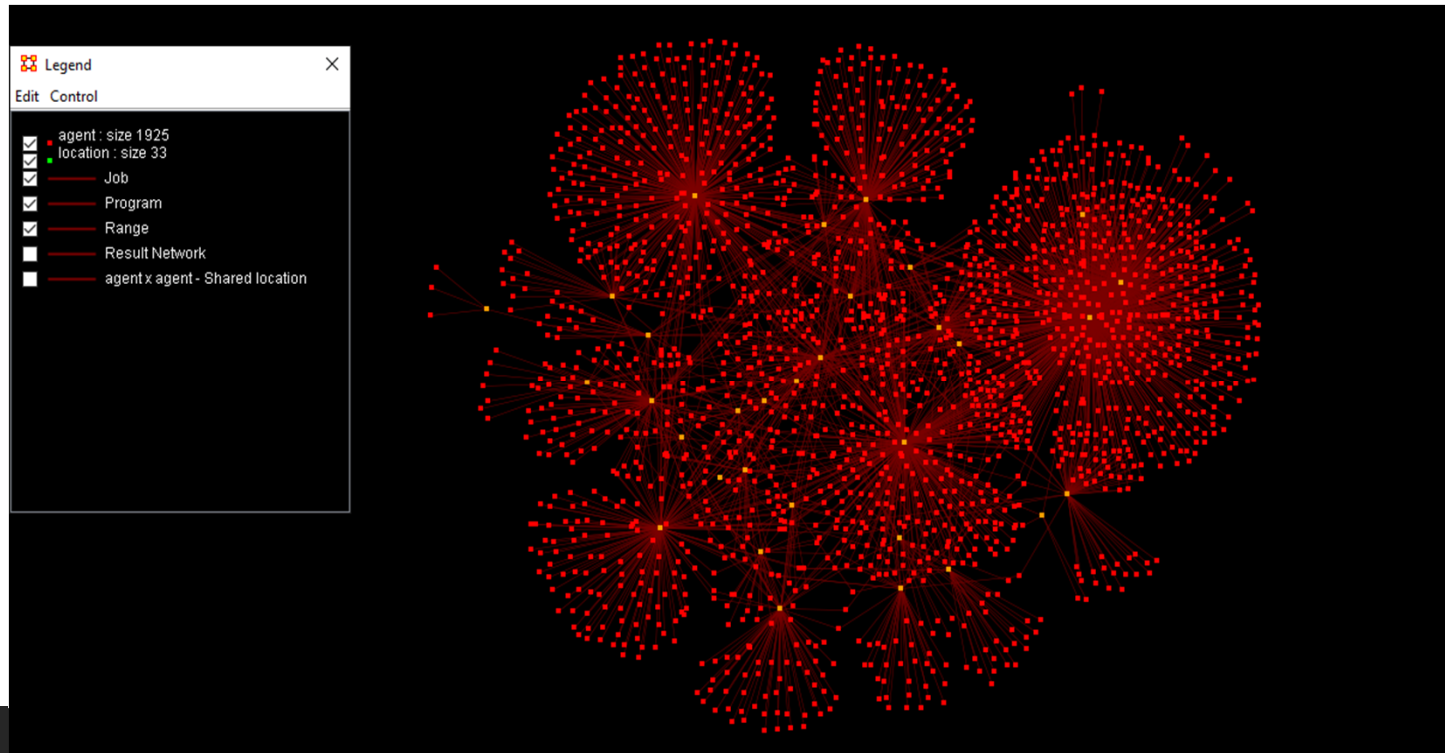
Social Network Analysis (SNA) – Offender Analysis

- Social Network Analysis used housing, program, and work assignment data to create networks of probable contact by offenders within various effected facilities.
- Example:
 - Ego network formed for an offender who had tested positive. At the level of direct contact he had encountered 38 other inmates.



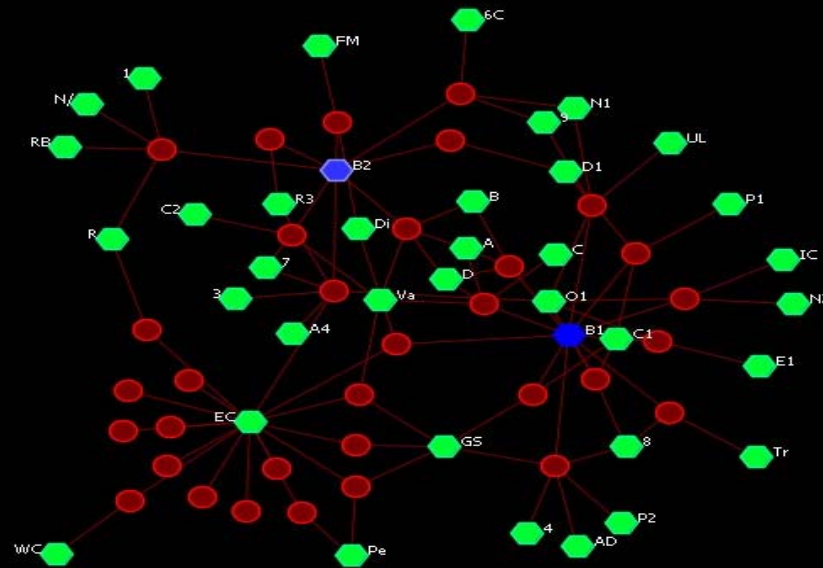
Social Network Analysis (SNA)

- At just one step removed in the analysis, over 1900 inmates had indirect contact with him.



Social Network Analysis (SNA) – Staff Analysis

- Staff were also a problem in that they moved between units, thus minimizing the effectiveness of restricting movement for the offenders.



Questions?

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