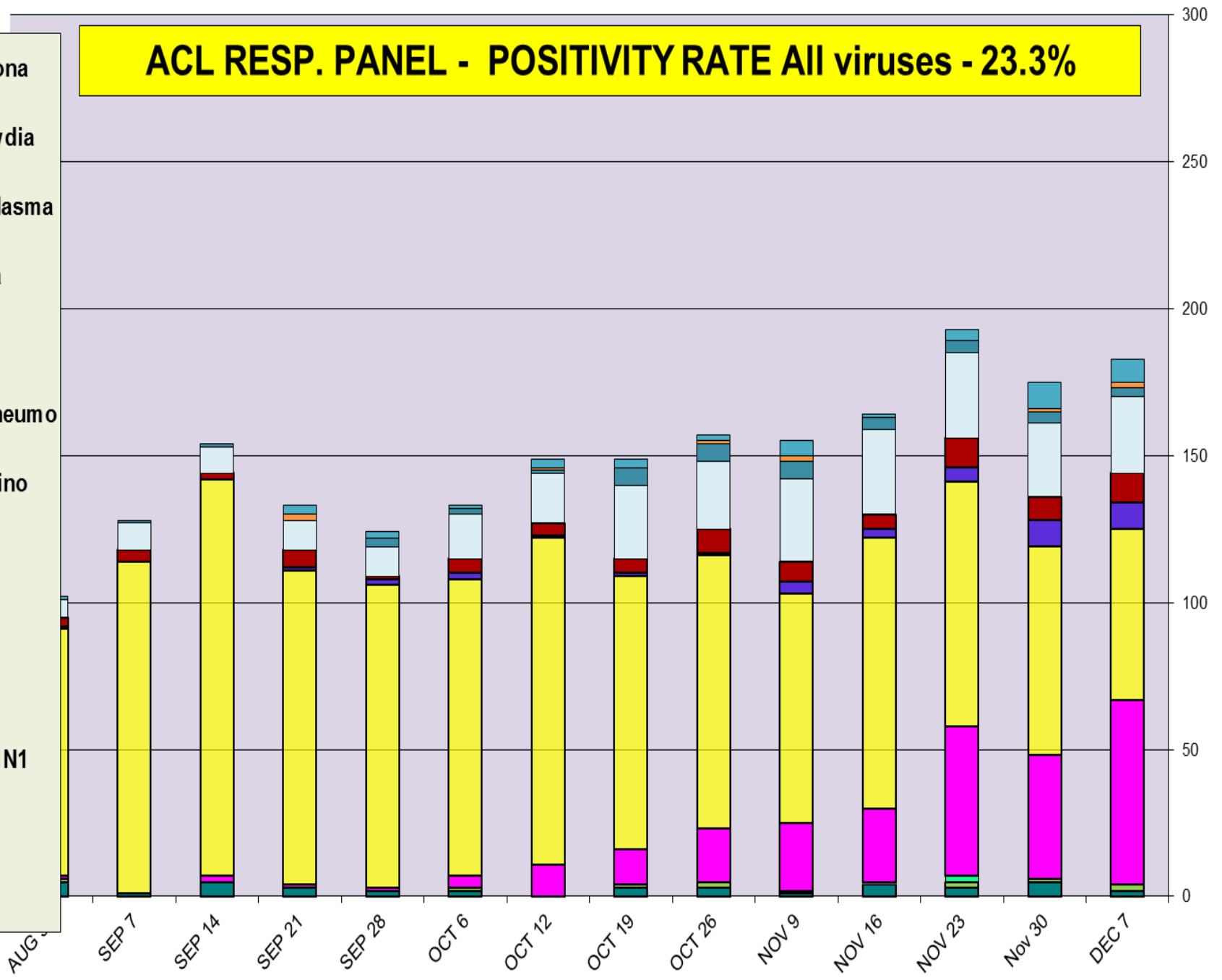# Respiratory Pathogens Data Aug 31 - Dec 7 2018

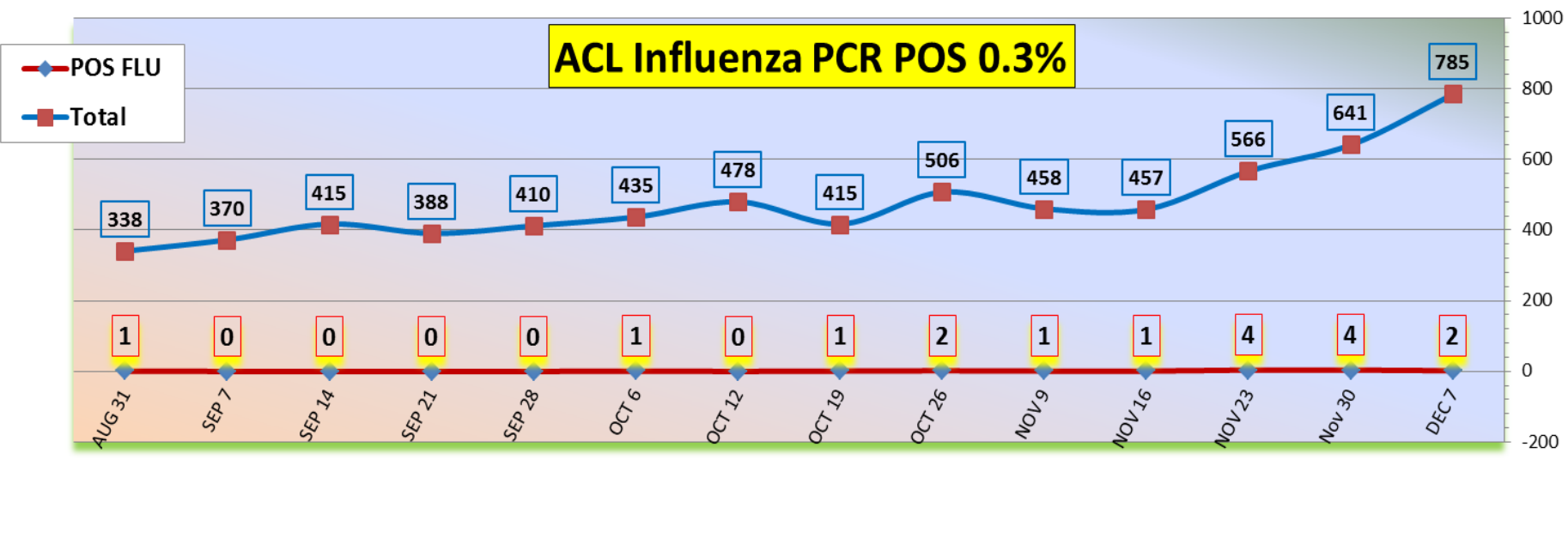| Week Beginning	InfA-H1	InfA-H3	2009 H1N1	Inf B	RSV	All Para	EV / Rhino	Meta pneumo	Adeno	All Corona	Bocca	Myco plasma	Chla mydia	Total Pos	POS FLU	Total	ACL %FLU	US %FLU	IL/WI PCR	Sofia EIA
DEC 7	0	0	2	0	63	26	58	9	10	8	2	3	2	183	2	785	0.3	n/a	n/a	3.6
Nov 30	0	0	1	0	42	25	71	9	8	9	5	4	1	175	4	641	0.6	4.2	1.9	1.9
NOV 23	0	2	2	0	51	29	83	5	10	4	3	4	0	193	4	566	0.7	2.4	1.6	
NOV 16	1	0	0	0	25	29	92	3	5	1	4	4	0	164	1	457	0.2	1.7	1.	
NOV 9	0	0	1	0	23	28	78	4	7	5	1	6	2	155	1	458	0.2	1.2	0.9	1.5
OCT 26	0	0	2	0	18	23	93	1	8	2	3	6	1	157	2	506	0.4	0.9	0.7	1.6
OCT 19	0	0	1	0	12	25	93	1	5	3	3	6	0	149	1	415	0.2	0.8	0.5	1.3
OCT 12	0	0	0	0	11	17	111	1	4	3	0	1	1	149	0	478	0.0	0.6	0.4	1.0
OCT 6	0	0	1	0	4	15	101	2	5	1	2	2	0	133	1	435	0.2	0.8	0.5	1.5
SEP 28	0	0	0	0	1	10	103	2	1	2	2	3	0	124	0	410	0.0	0.9	0.6	1.5
SEP 21	0	0	0	0	1	10	107	1	6	3	3	0	2	133	0	388	0.0	0.8	0.9	0.9
SEP 14	0	0	0	0	2	9	135	0	2	0	5	1	0	154	0	415	0.0	0.7	1.0	0.7
SEP 7	0	0	0	0	0	9	113	0	4	0	1	1	0	128	0	370	0.0	1.7	0.5	0.9
AUG 31	0	0	1	0	1	6	84	1	3	1	5	0	0	102	1	338	0.3	1.8	0.7	0.7

Flu PCR % Rate

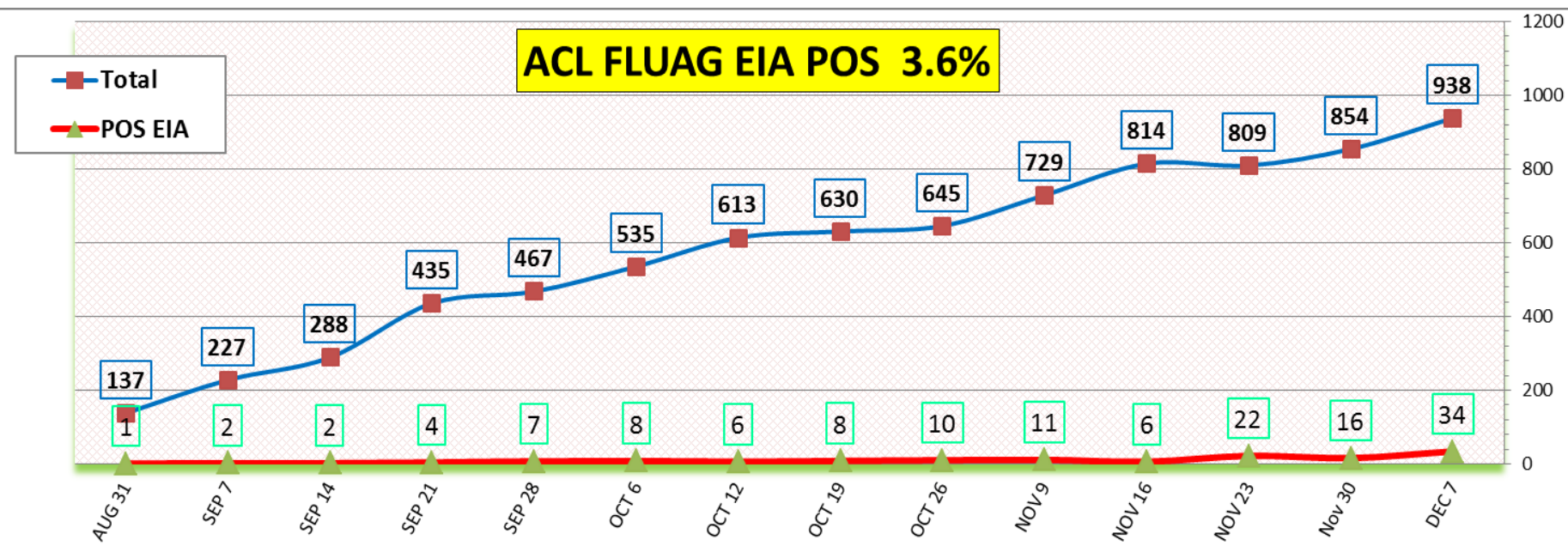ACL RESP. PANEL - POSITIVITY RATE All viruses - 23.3%

Legend:
- All Corona
- Chla mydia
- Myco plasma
- All Para
- Adeno
- Meta pneumo
- EV / Rhino
- RSV
- Inf B
- InfA-H3
- 2009 H1N1
- InfA-H1
- Bocca

X-axis: AUG, SEP 7, SEP 14, SEP 21, SEP 28, OCT 6, OCT 12, OCT 19, OCT 26, NOV 9, NOV 16, NOV 23, Nov 30, DEC 7

ACL Influenza PCR POS 0.3%

Legend: POS FLU, Total

Date	Total	POS FLU
AUG 31	338	1
SEP 7	370	0
SEP 14	415	0
SEP 21	388	0
SEP 28	410	0
OCT 6	435	1
OCT 12	478	0
OCT 19	415	1
OCT 26	506	2
NOV 9	458	1
NOV 16	457	1
NOV 23	566	4
Nov 30	641	4
DEC 7	785	2

ACL FLUAG EIA POS 3.6%

Legend: Total, POS EIA

Date	Total	POS EIA
AUG 31	137	1
SEP 7	227	2
SEP 14	288	2
SEP 21	435	4
SEP 28	467	7
OCT 6	535	8
OCT 12	613	6
OCT 19	630	8
OCT 26	645	10
NOV 9	729	11
NOV 16	814	6
NOV 23	809	22
Nov 30	854	16
DEC 7	938	34

Correlation between RPPNL (FLU PCR) and Sofia (FLUAG)

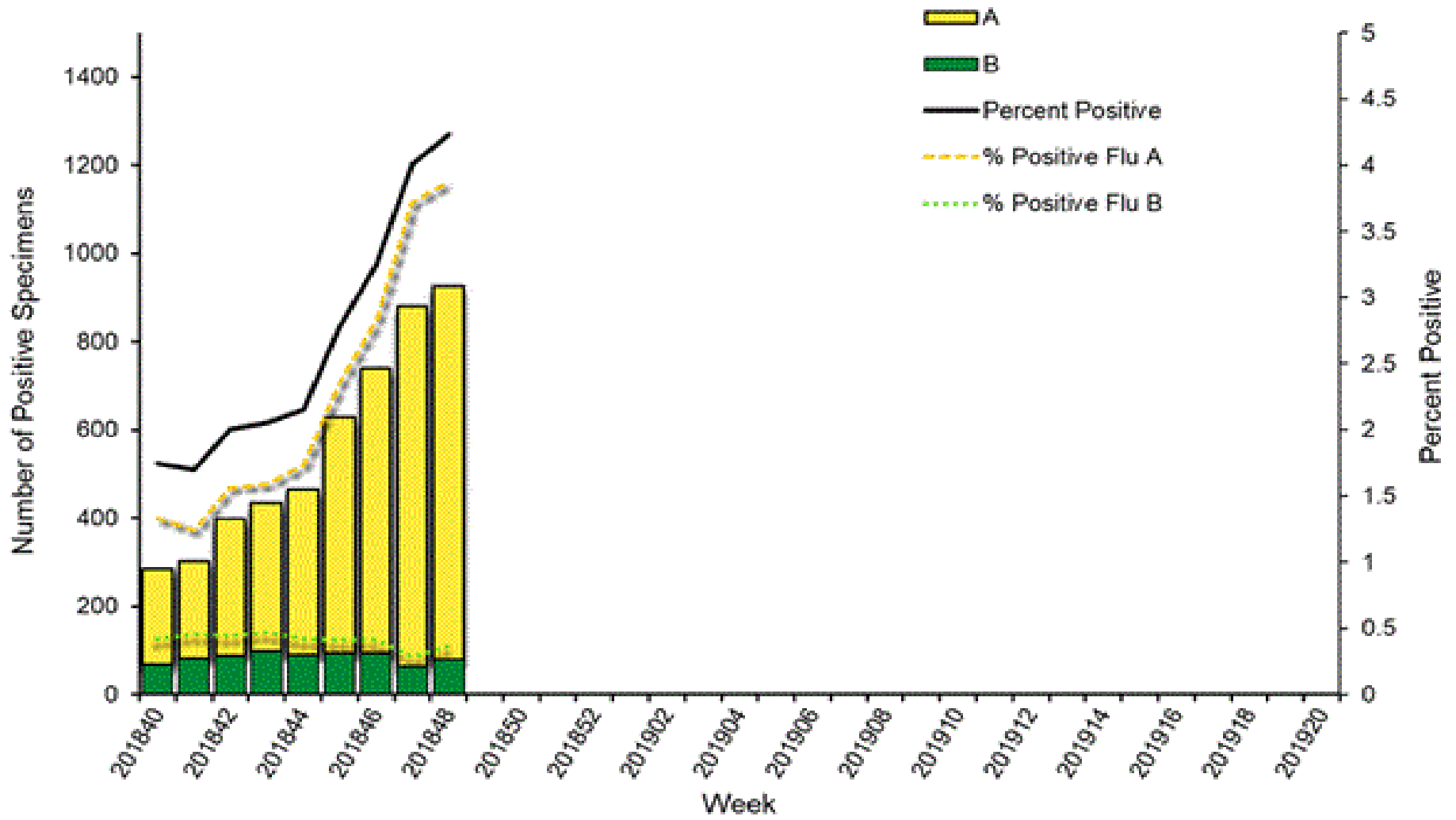## Accuracy for the beginning of the season is 99.5%

In the last seven weeks 640 samples were tested by both methods most of them negative, 8 samples were positive by EIA and 4 of them were confirmed by PCR.

		Oct 14 2018 to Dec 7 2018		
		FLUAG (Sofia) vs RPPNL (PCR) correlation		
		RPPNL		
		+	-	Total
FluAG	+	4	4	8
	-	0	740	740
			Total	748

%				
100.0	Clinical Sensitivity			
99.5	Clinical Specificity			
50.0	Positive Predictive Value (PPV)			
100.0	Negative Predicative Value (NPV)			
99.5	Accuracy			

two of of positive samples were run 72 h apart

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, 2018-2019 Season

2018-19 Influenza Season Week 48 ending Dec 01, 2018

ILI Activity Level

- High
- Moderate
- Low
- Minimal
- Insufficient Data

Alaska
Hawaii
Puerto Rico
New York C
District of Colur
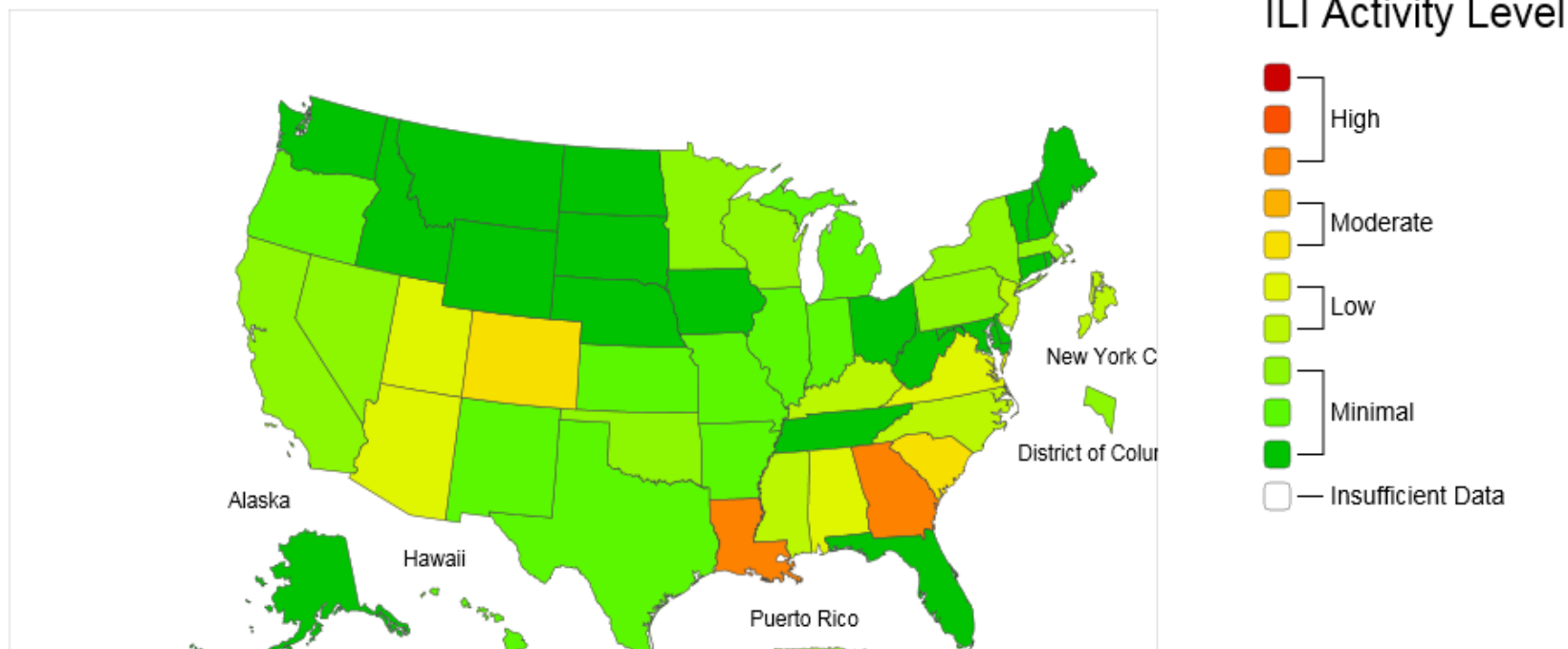
*This map uses the proportion of outpatient visits to healthcare providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

*Data collected in ILINet may disproportionately represent certain populations within a state, and therefore may not accurately depict the full picture of influenza activity for the whole state.

*Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.
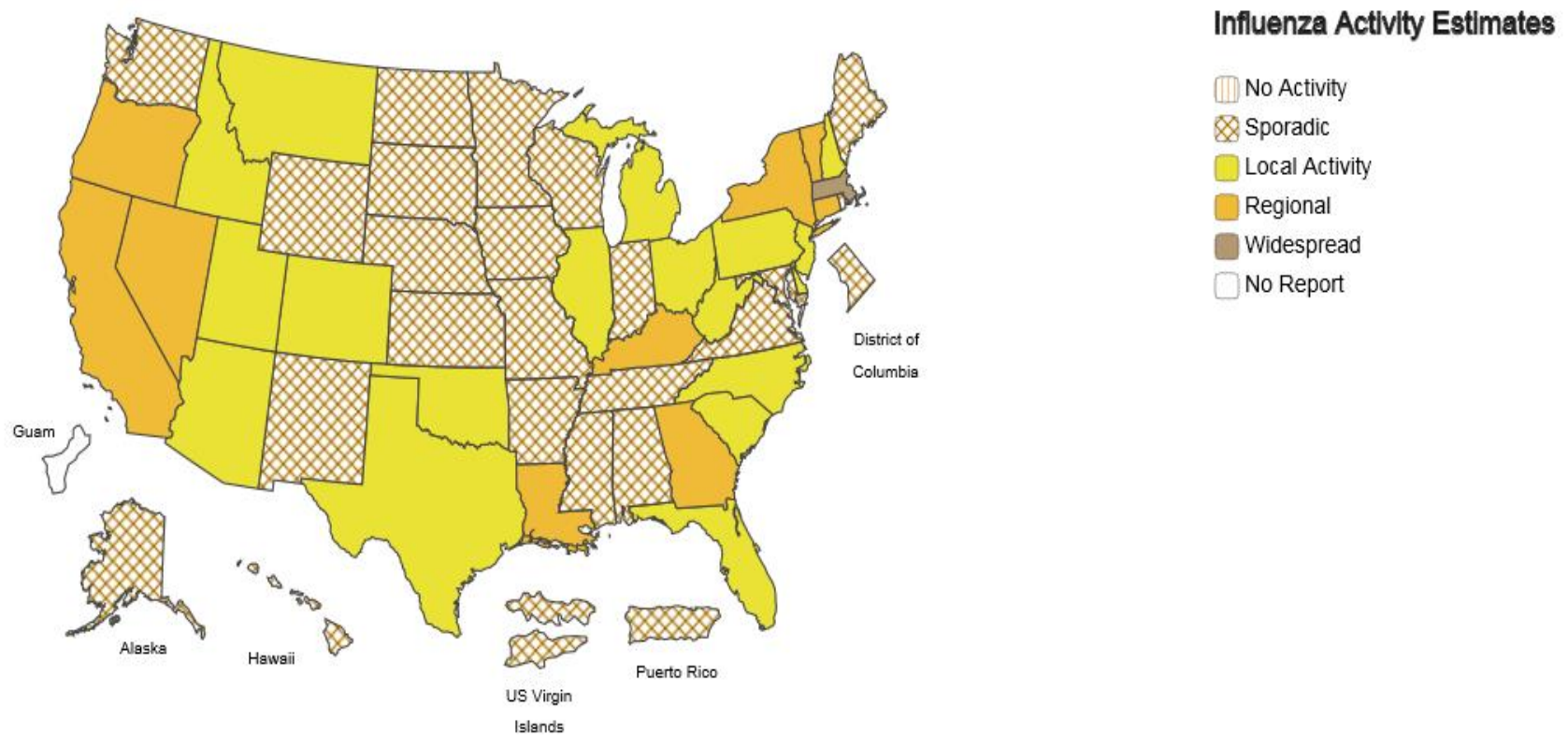
*Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete.

*For the data download you can use Activity Level for the number and Activity Level Label for the text description.

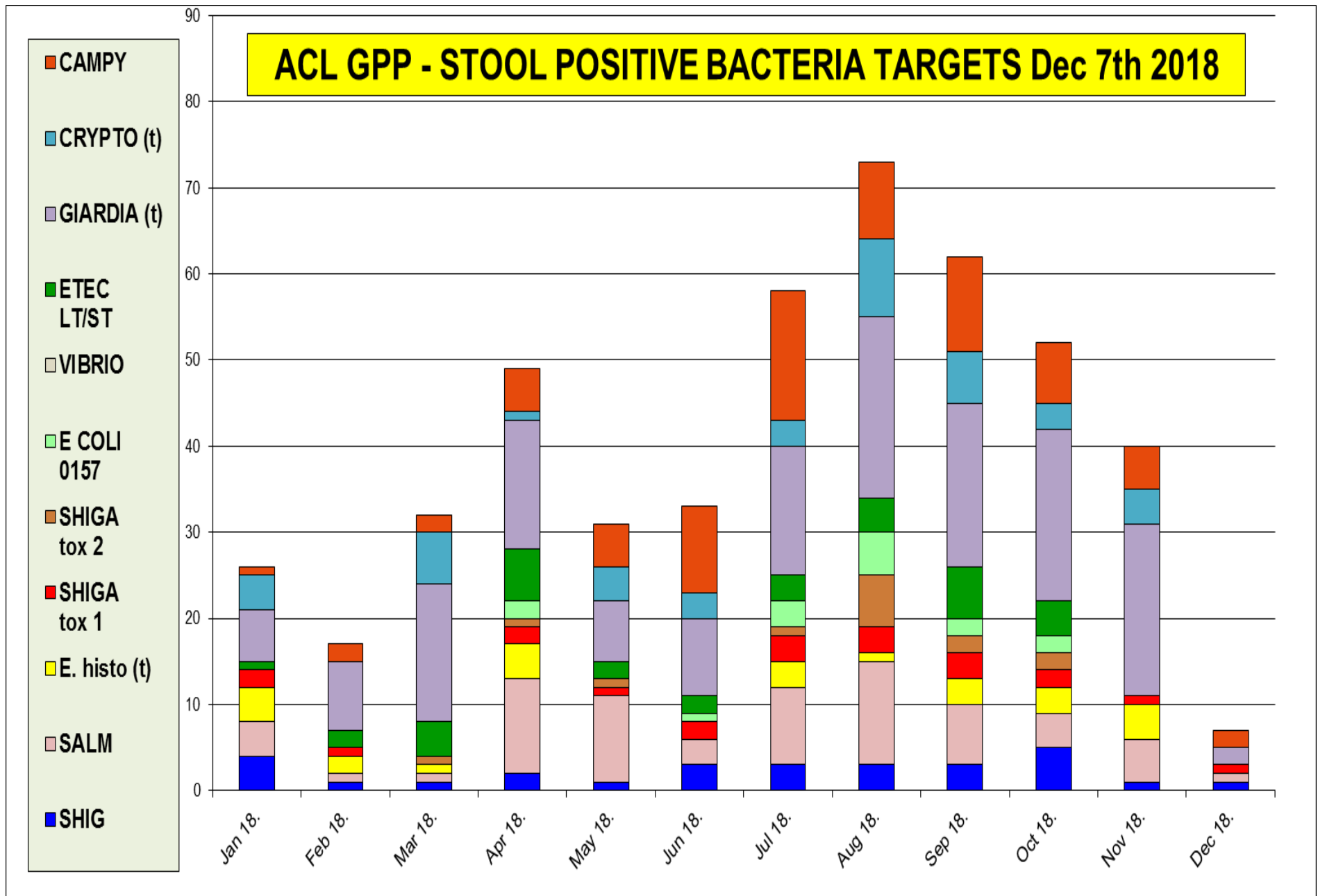# A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 01, 2018 - Week 48

Influenza Activity Estimates

- No Activity
- Sporadic
- Local Activity
- Regional
- Widespread
- No Report

Guam

Alaska

Hawaii

US Virgin Islands

Puerto Rico

District of Columbia

*This map indicates geographic spread and does not measure the severity of influenza activity.

The most prevalent target as **Nov 30th was HSV2 – total pos. rate 7.4%**

ACL RMEPNL - CSF POSITIVE Nov 30 2018

Legend: Crypto, VZV, PEV, HHV6, HSV2, HSV1, EV, CMV, S. pneu, S. agal, N. men, L. mono, H. infl, E. coli

X-axis: DEC, Jan-18, Feb-18, Mar-18, Apr-18, May-18, Jun-18, Jul-18, Aug-18, Sep-18, Oct-18, Nov-18, Dec-18

The most prevalent targets as **Dec 7th** was **Giardia**

ACL GPP - STOOL POSITIVE BACTERIA TARGETS Dec 7th 2018

Legend:
- CAMPY
- CRYPTO (t)
- GIARDIA (t)
- ETEC LT/ST
- VIBRIO
- E COLI 0157
- SHIGA tox 2
- SHIGA tox 1
- E. histo (t)
- SALM
- SHIG

The most prevalent target as **Dec 7th** was **Norovirus**

ACL GPP - STOOL POSITIVE BACTERIA TARGETS Dec 7th 2018

Legend:
- ROTA
- TOTAL NORO GII
- TOTAL NORO GI
- ADENO 40/41

X-axis: Jan 18., Feb 18., Mar 18., Apr 18., May 18., Jun 18., Jul 18., Aug 18., Sep 18., Oct 18., Nov 18., Dec 18.
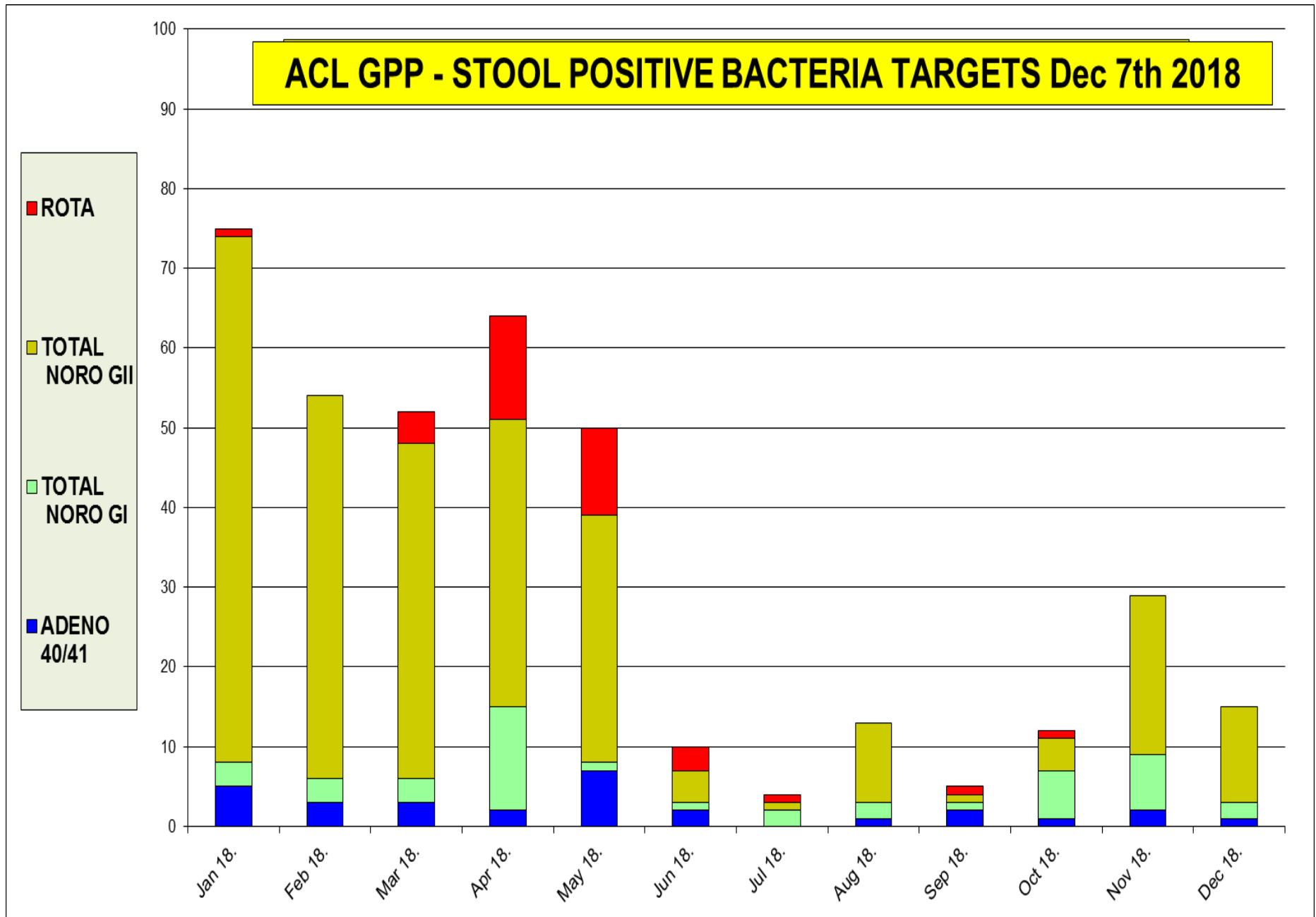
	BV-Bacterial vagionosis	Candida albicans	Candida galbrata	Candida kruzei	T. vaginalis	M. genitalium	M. hominis	U. parvum	TOTAL % POS
% pos	21.9	13.2	1.9	0.3	3.1	0.1	6.7	18.8	66.0

SWAB ONE - POSITIVE TARGETS Dec 7th 2018

Legend:
- U.PARV
- M.HOM
- M.GETN
- T.VAG
- C. ALB
- B. VAG
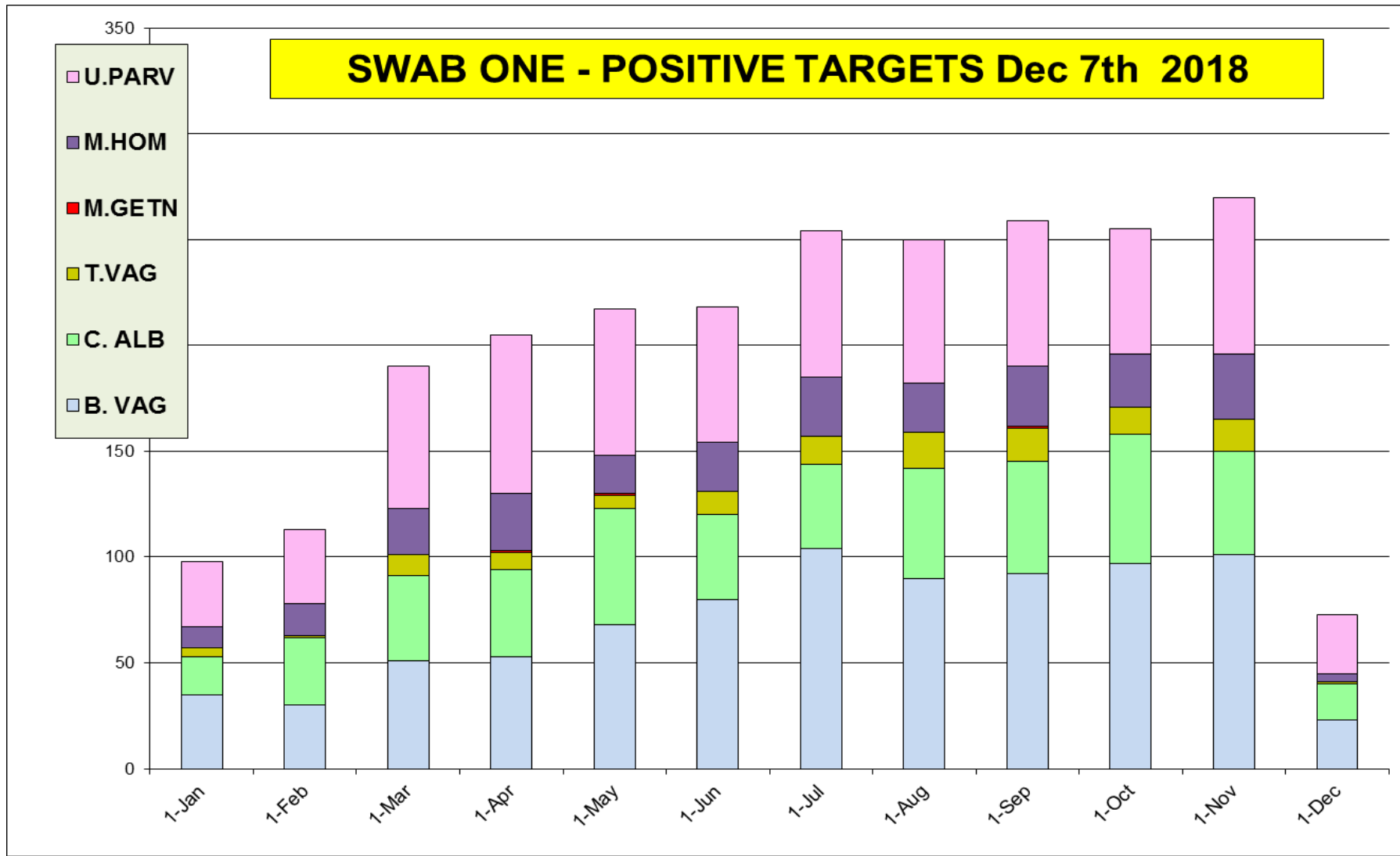
Neuraminidase Inhibitors **Resistance** in Samples Collected – as of Dec 01, 2018,

Per CDC website	Oseltamivir		Zanamivir		Peramivir	
	Virus Samples tested (n)	Resistant Viruses, (%)	Virus Samples tested (n)	Resistant Viruses, (%)	Virus Samples tested (n)	Resistant Viruses, (%)
Influenza A (H1N1)pdm09	93	0	93	0	93	0
Influenza A (H3N2)	43	0	43	0	43	0
Influenza B	22	0	22	0	22	0