

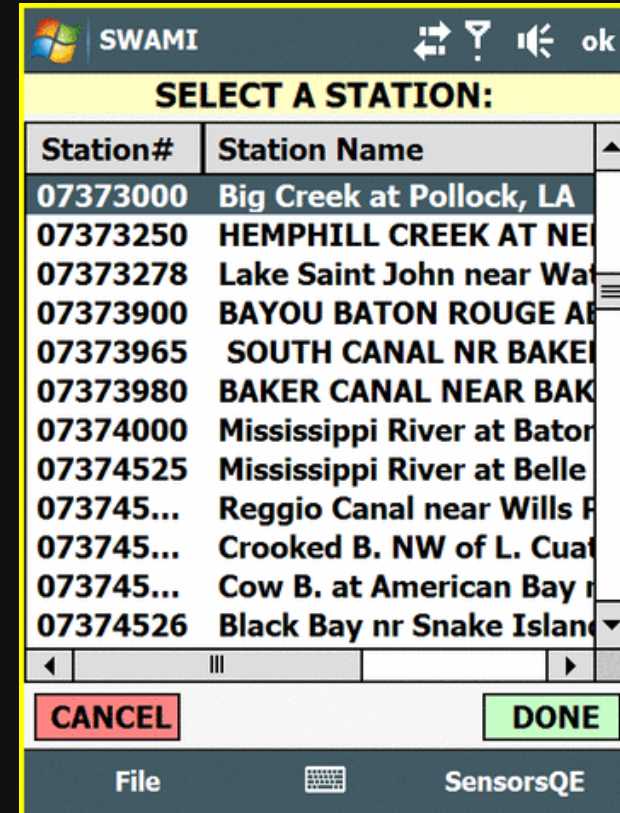
FCIS Update

Presented to ITAC
10/7/2009

- Field data applications – FY09 & FY10
 - SWAMI
 - CHIMP
 - Station Levels
 - MONKES
- Field data application usage
- Other FY10 work & projects
- Why we are using Windows Mobile
 - Discussion of other Devices

Apps: SWAMI FY09

- Official release June 09
- Data synch scripts
 - Getstations
 - Getmeters
 - Getsensors
 - Getratings
 - SWAMI_conf
- New grid style input for readings
- Rating plot
- WinRiver II import function



The screenshot shows the SWAMI application interface. At the top is a title bar with the Windows logo, the text 'SWAMI', and icons for window management and an 'ok' button. Below the title bar is a yellow header with the text 'SELECT A STATION:'. The main area contains a table with two columns: 'Station#' and 'Station Name'. The table lists several stations, with the first one highlighted. At the bottom of the table are navigation arrows. Below the table are two buttons: 'CANCEL' (red) and 'DONE' (green). At the very bottom is a dark blue bar with three icons: a file folder, a keyboard, and the text 'SensorsQE'.

Station#	Station Name
07373000	Big Creek at Pollock, LA
07373250	HEMPHILL CREEK AT NE
07373278	Lake Saint John near Wat
07373900	BAYOU BATON ROUGE AB
07373965	SOUTH CANAL NR BAKEI
07373980	BAKER CANAL NEAR BAK
07374000	Mississippi River at Bator
07374525	Mississippi River at Belle
073745...	Reggio Canal near Wills F
073745...	Crooked B. NW of L. Cuat
073745...	Cow B. at American Bay n
07374526	Black Bay nr Snake Island

Apps: SWAMI FY10

- Better integration with CHIMP
- Further develop sync with NWIS
 - Retrieve max min values for Q measurements
 - Add 9-207 view of data


SWAMI
↔
📶
🔊
ok

SITE INFORMATION

Station: **07373000** ...

Big Creek at Pollock, LA

Date: **2009-08-23** Time: **14:28:06**

Party: **BBG** TZ: **CDT** ▼

SV Email: **bbgoree** @usgs.gov

Weather: **cloudy,hot,no precip,calm**

Comment:

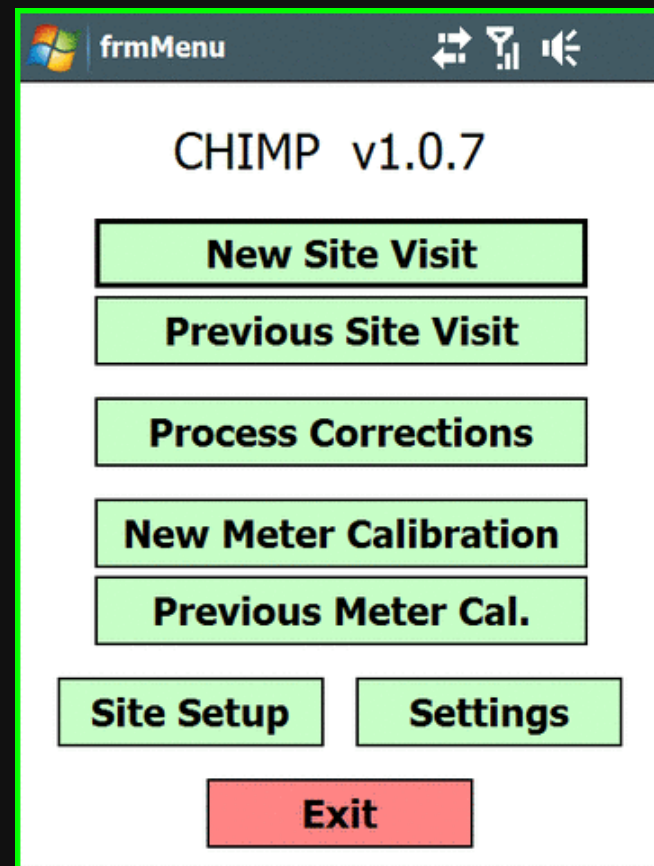
Bat V: **12.6** **TASKS**

File

SensorsQE

Apps: CHIMP FY09

- Continuing to develop application
 - Working out equipment issues
- Target release next month
- Will integrate better with NWIS 4.10 release



Apps: CHIMP FY10

- Release, release, release
- Create automatic upload for corrections
- Add direct read capability
- Add integration with SWAMI

frmCorrections

SC Inspection Summary

Fouling Correction			
Monitor	Monitor	FM	FM
Dirty	Clean	Before	After
1200	1500	1580	1580
25.00	% or	300	uS
Correction @100K			25000

Drift Correction			
	Std 1	Std 2	Std 3
	500	1500	5000
Input	450	1420	4800
Correction	50	80	200
%	11.11	5.63	4.17
@100K	697,000		Avg% 6.97

DO pH SC Temp Turb **Back**



Apps: Station Levels FY10

- FY10 Work
 - Will be redesigned for new SOP (Terry Kenny)
 - Will allow connection to TopCon and Trimble levels
 - Redesign is moderate work
 - Prototype central storage of levels
 - Sync of levels data

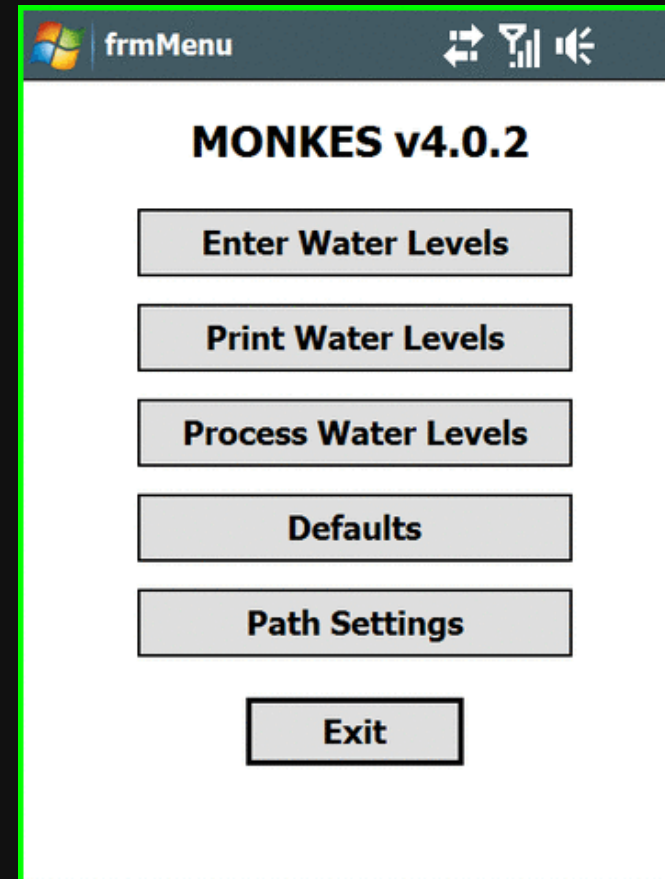
The screenshot shows a software window titled "Station Levels". It contains the following fields and controls:

- Station:** 01011000 (with a green status indicator)
- Location:** Allagash River near Allagash, Maine
- Date:** 08/22/09
- Time:** 22:19:31
- Air Temp:** 25 °C
- Operators:** BBG (Rod) and JPN (Gun)
- Equipment:** Rod ID: 53, Gun ID: 76423
- Rod Taped:** Yes (dropdown menu)
- Rod Level Used:** Yes (dropdown menu)
- 2Peg Date:** 07/24/09
- Col Error:** .001
- Navigation:** Site Info, Levels, Loop Sums, and a "GOTO TAB" button.
- Footer:** File menu and USGS logo with the tagline "science for a changing world".



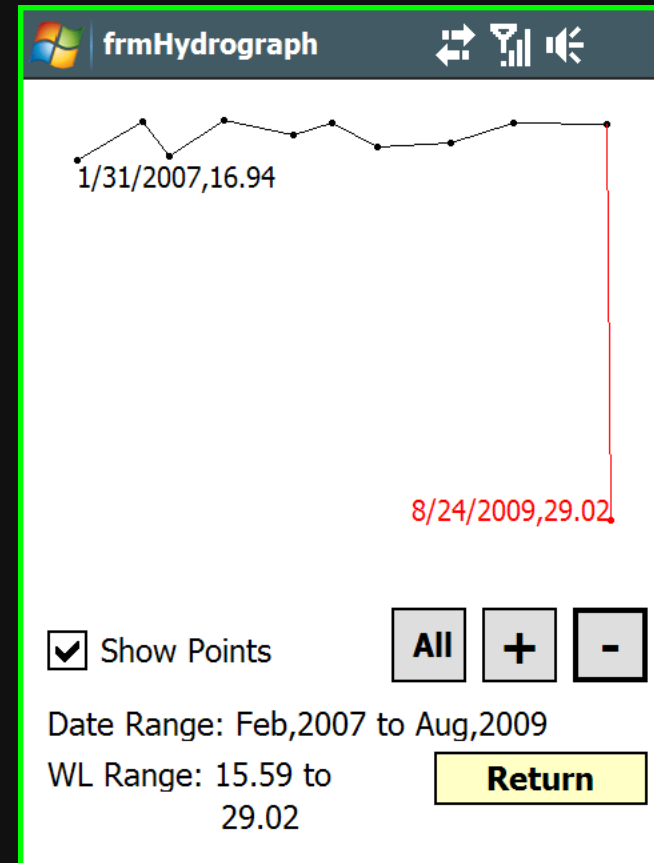
Apps: MONKES FY09

- Latest version 4.0.2 released April-09
 - Added water-level remarks to .gwsf file (C267).
 - Added equipment ID field to entry form.
 - Added lat/long type toggle between decimal degrees and dms
 - Added delete option to water-level entry form.



Apps: MONKES FY10

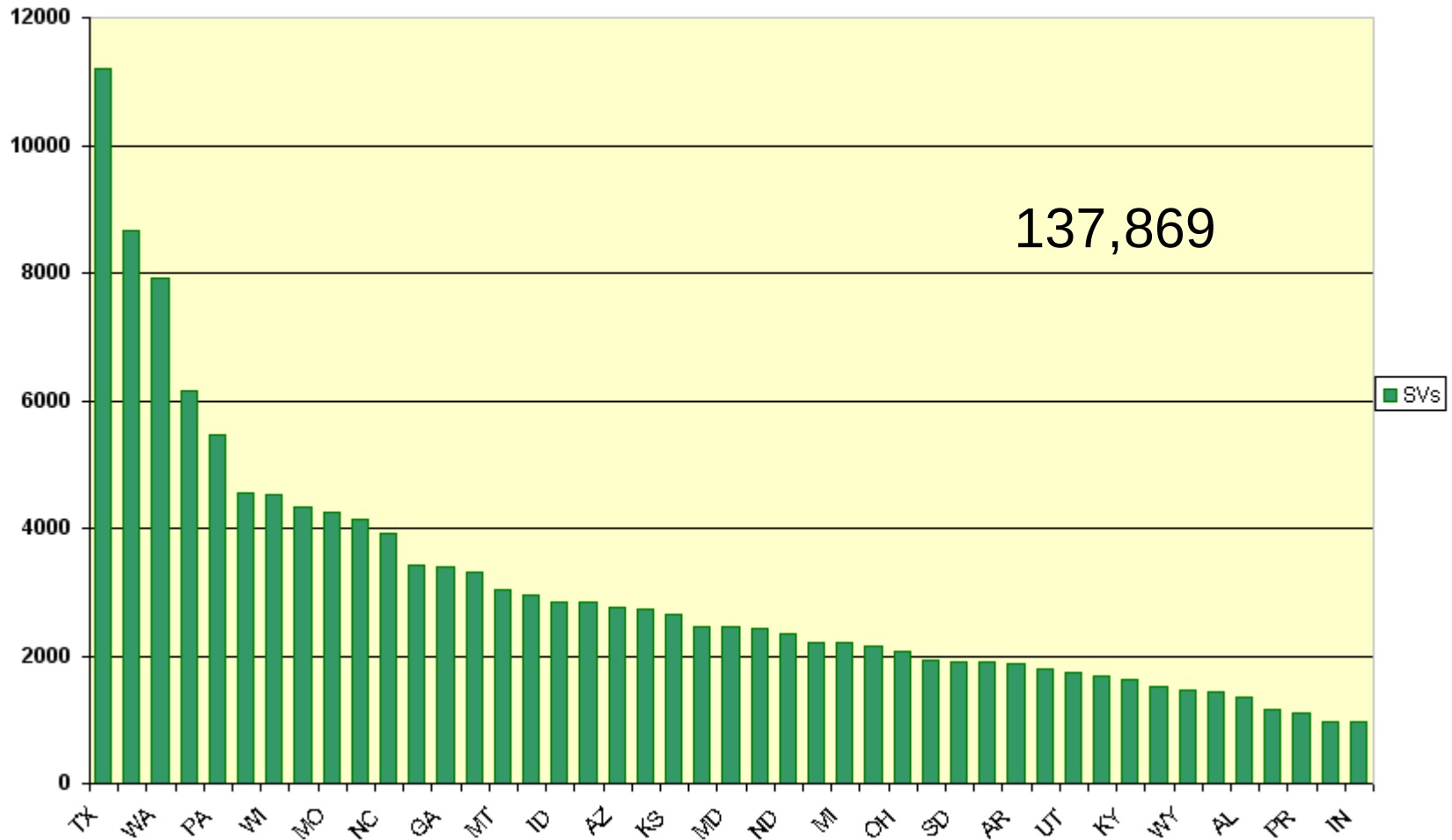
- Will be modified to allow for SV output
- Will incorporate more screening tools
 - Will compare levels to max and min
- Field trip creation will be moved to Unix
 - Allows for automated updating and syncing



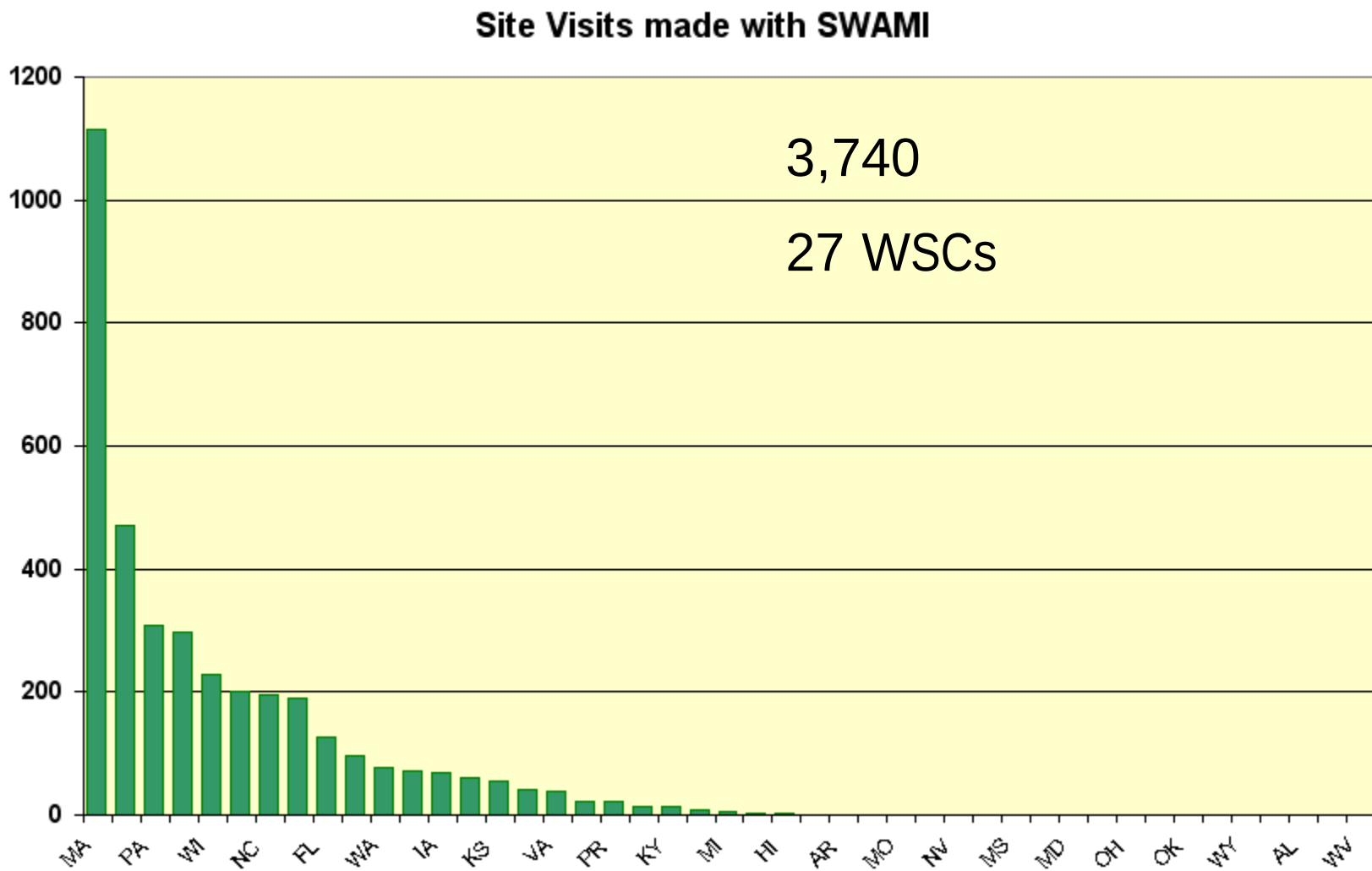


Apps: Usage

Total Site Visits



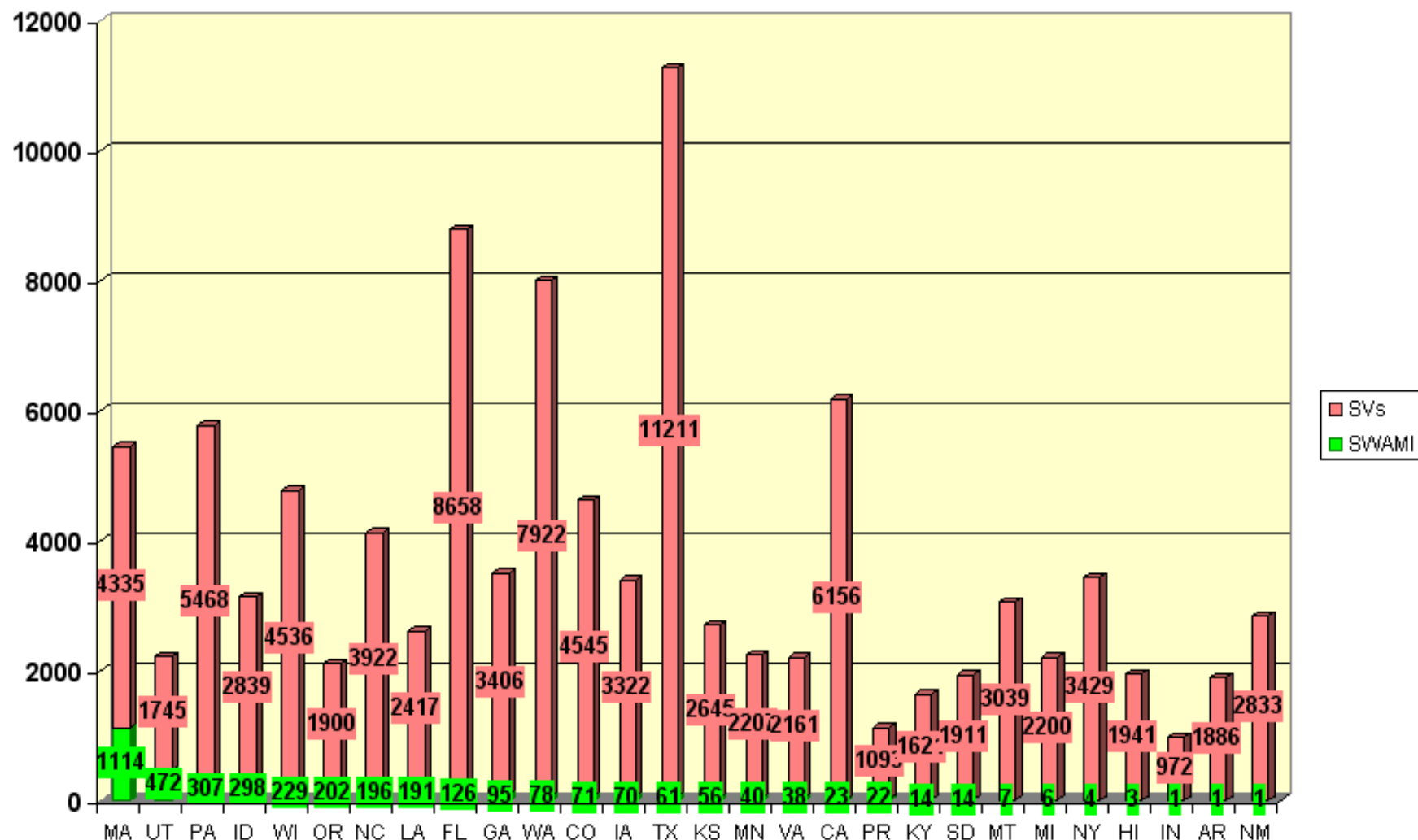
Apps: Usage





Apps: Usage

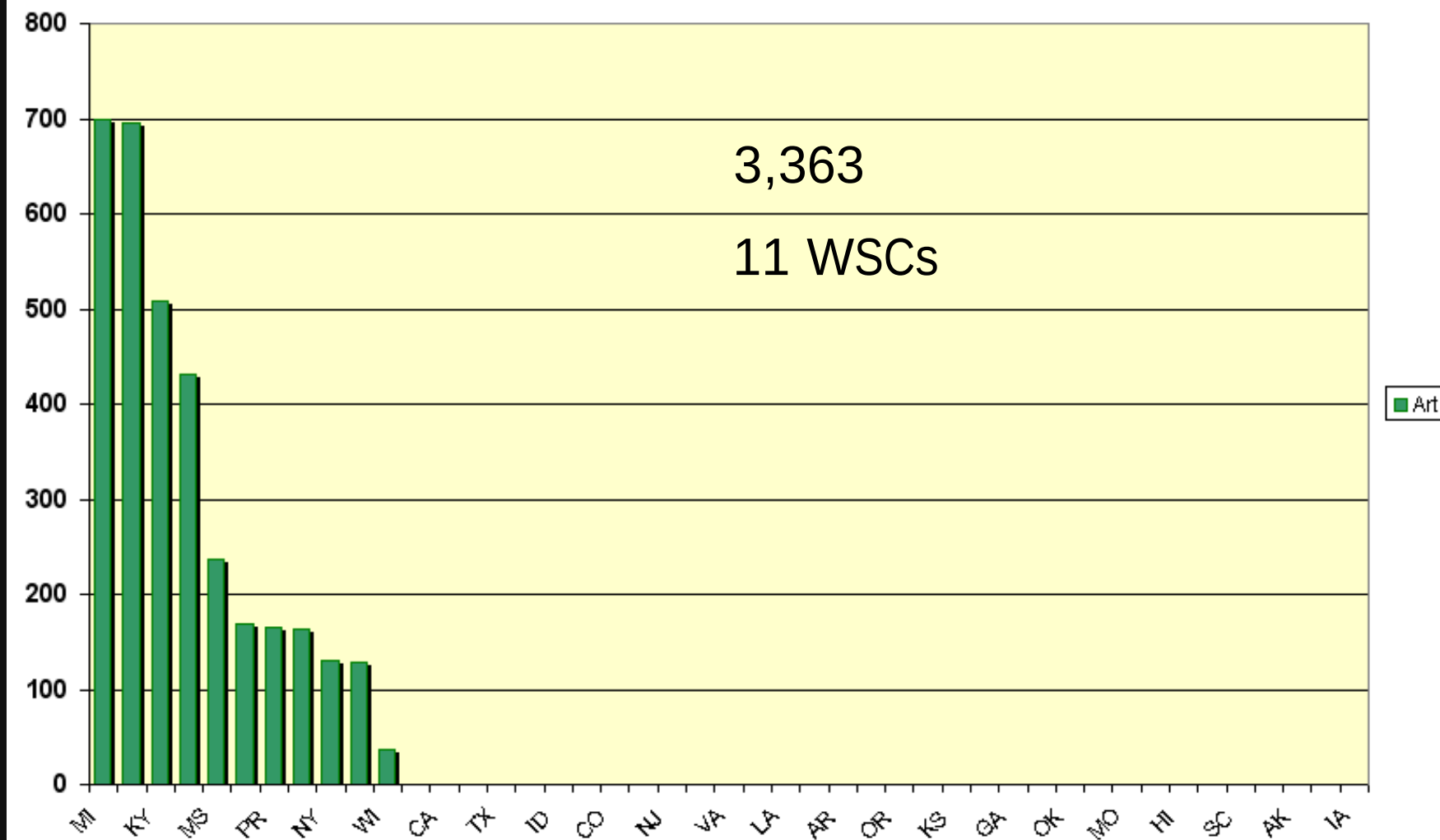
SWAMI Usage





Apps: Usage

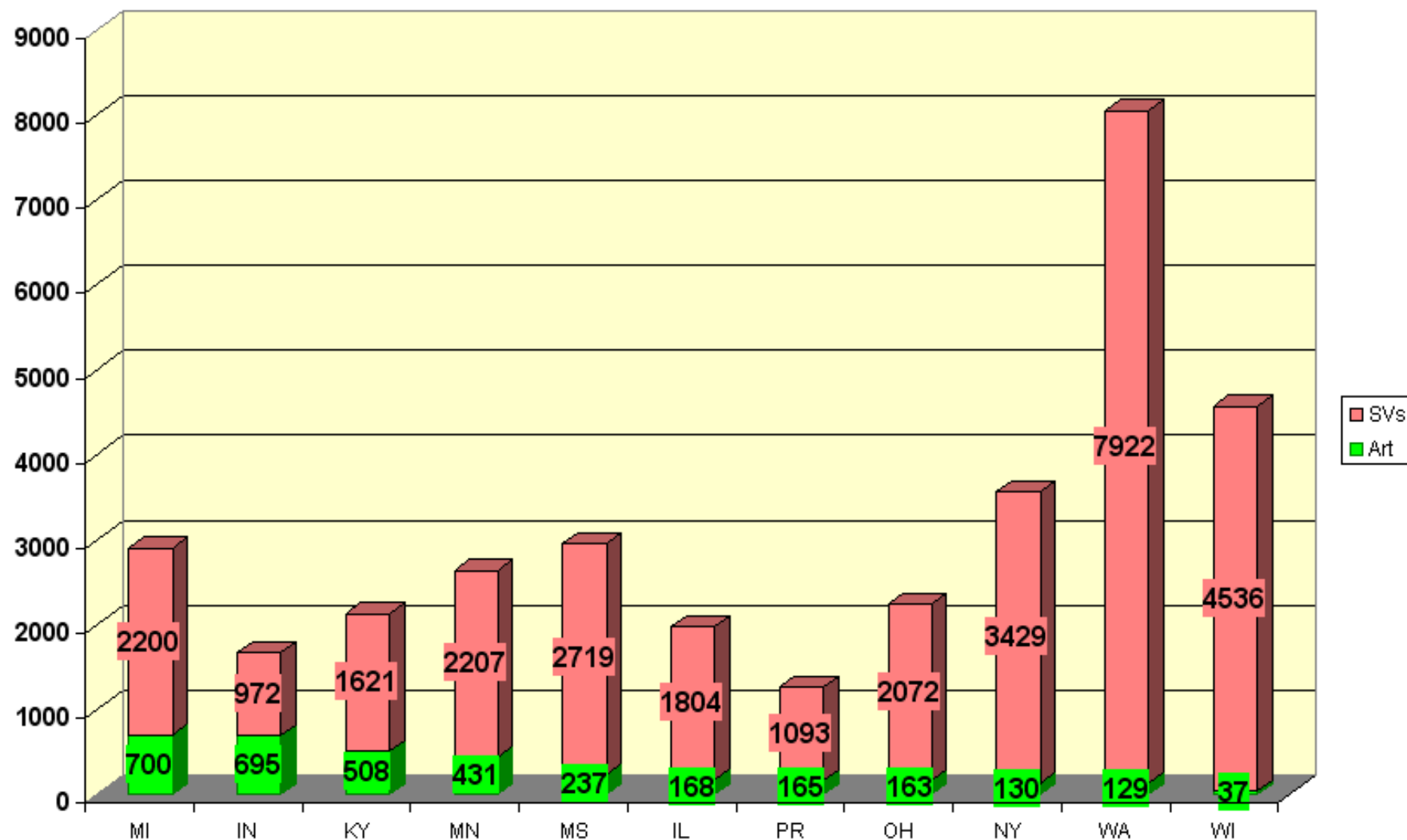
Art Usage





Apps: Usage

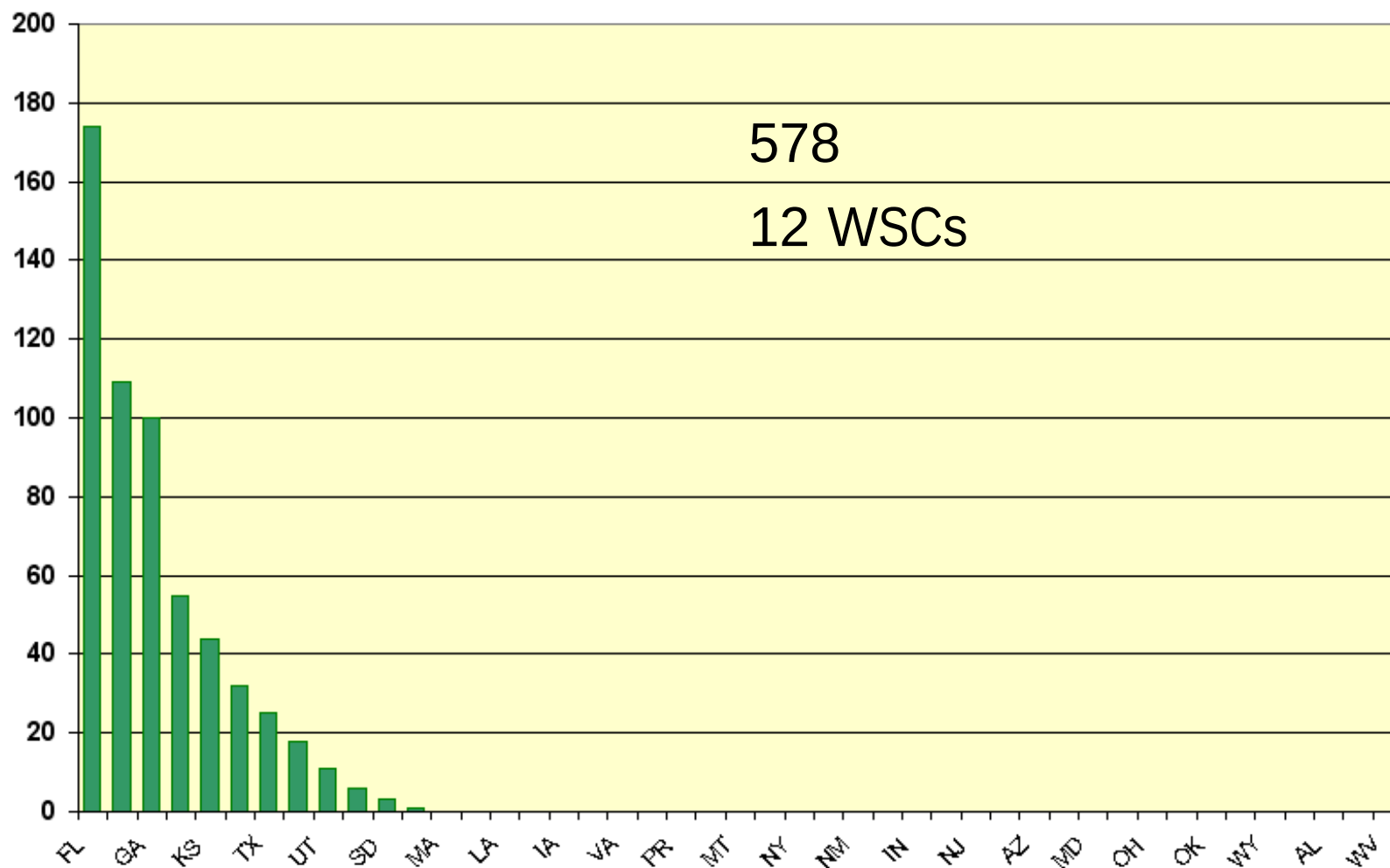
Art Usage





Apps: Usage

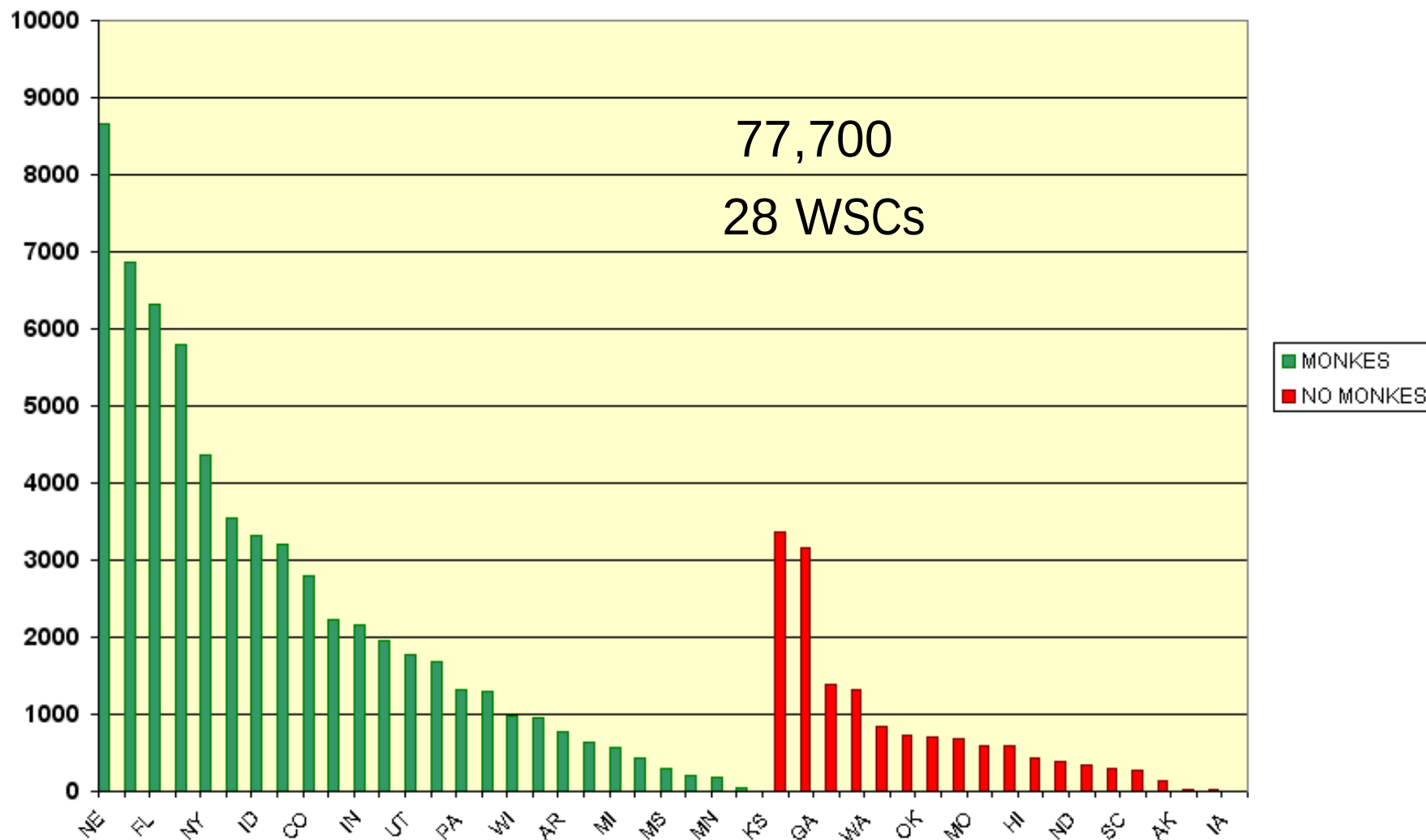
CHIMP Site Visits





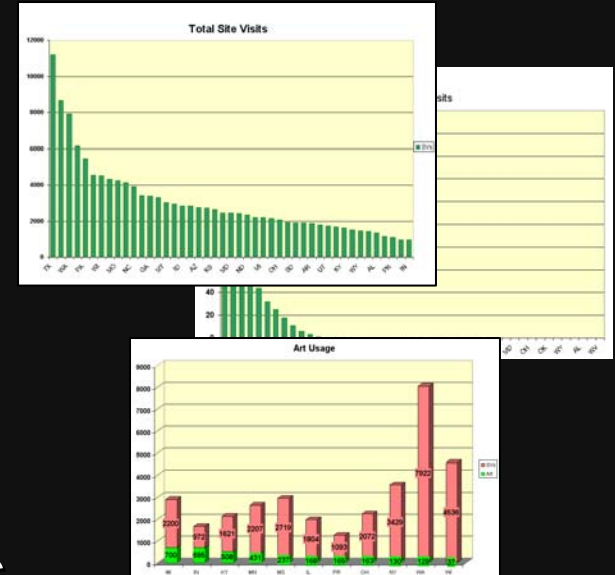
Apps: Usage

Water Levels

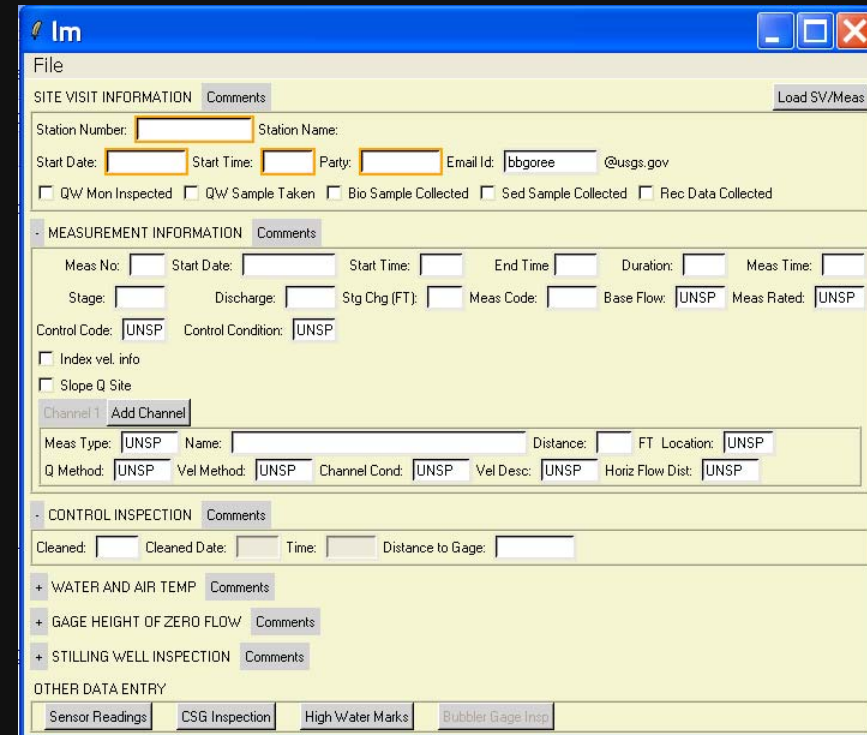


Apps: Usage

- Approximately 180,000 activities
- Approximately 138,000 site visits
 - All site visits from field apps are less than 6% of total
- 1 minute = 1.5 man years



- Provide SV app for Laptop/Tablets UMPC
- Add loadmeas task to SV app
- Sync data beyond SV
 - Description
 - Manuscript
 - Rating
 - Analysis



The screenshot shows a software window titled 'Im' with a menu bar (File) and several tabs for data entry. The 'SITE VISIT INFORMATION' tab is active, showing fields for Station Number, Station Name, Start Date, Start Time, Party, Email Id (bbgoree@usgs.gov), and checkboxes for Q/W Mon Inspected, Q/W Sample Taken, Bio Sample Collected, Sed Sample Collected, and Rec Data Collected. Below this is the 'MEASUREMENT INFORMATION' tab, which includes fields for Meas No., Start Date, Start Time, End Time, Duration, Meas Time, Stage, Discharge, Stg Chg (FT), Meas Code, Base Flow (UNSP), Meas Rated (UNSP), Control Code (UNSP), and Control Condition (UNSP). There are also checkboxes for Index vel. info and Slope Q Site. The 'CONTROL INSPECTION' tab is also visible, showing fields for Cleaned, Cleaned Date, Time, and Distance to Gage. At the bottom, there are tabs for Sensor Readings, CSG Inspection, High Water Marks, and Bubbler Gage Insp.

Other FY10 Projects

- Installation of Mobicontrol server
 - Remote support
 - Device management
 - Software installation
 - Device inventory
 - Data Sync
 - Security policies

SOTI MobiControl V6 Available Now!
Manage, Support & Secure Your Mobile Field-Force

■ Device Provisioning	■ Helpdesk Tools	■ Advanced Security	■ Location Services
■ OTA Diagnostics	■ Data Sync	■ Asset Management	■ Reporting



[More Info](#)

[Product Video](#)

"The cost associated with Device Management through SOTI is a fraction of the cost of other solutions, while providing twice the feature set. What a pleasant surprise."

- Ben F. Marshall, KCI, USA.
Chief Architect



Reasons for Windows Mobile

- Serial connectivity
 - Cable and bluetooth options
 - SWAMI, Levels, MONKES currently use serial
 - CHIMP will use serial
 - Vendor software uses serial
- Vendor software support
- Development environment (VS .Net)
 - Allows code sharing between PDA and laptop solutions



Reasons for Windows Mobile

- Several hardware options
 - PDAs with or without communications
 - No phone, Voice only, Voice and data
 - Varying screen sizes, with or w/o QWERTY keyboards
 - Consumer and industrial models
- Multi-tasking OS
- Enterprise software management solutions

Questions?

Questions??

Comments??