Thoughts on the ARIN burn rate projections

The published projections on the burn rate of each RIR have been based on a fairly large window of historical data, with equal weight given to all the data to derive a historical burn rate. This study will look at the ARIN case with heavier weighting given to the recent data.

First off, it would appear that several organizations are in rapid expansion mode given recent slow-start allocations. While none of them are particularly large yet, and doubling in size is not easy to maintain as the overall size gets larger, if even half of these organizations continue on this pace the slope of the ARIN burn rate could approach that of APnic in its final days.

Date	Alloc. Size	Org.
20120816	20	ACNCO
20130125	20	ACNCO
20130416	17	ACNCO
20121120	20	Avante Hosting
20121203	19	Avante Hosting
20130206	18	Avante Hosting
20130308	17	Avante Hosting
20121022	20	B2 Net Solutions
20130211	20	B2 Net Solutions
20130401	19	B2 Net Solutions
20121003	14	Bright House Networks
20130315	12	Bright House Networks
20121101	20	CloudRadium
20121130	19	CloudRadium
20130103	18	CloudRadium
20130401	17	CloudRadium
20121127	20	DataShack
20130213	19	DataShack
20130117	20	Digital Ocean
20130215	19	Digital Ocean
20130327	18	Digital Ocean
20120905	20	EdgeCast Networks
20121023	19	EdgeCast Networks
20121129	18	EdgeCast Networks
20130207	17	EdgeCast Networks
20120918	19	Enzu
20121205	18	Enzu
20130117	18	Enzu
20130325	17	Enzu
20121128	20	GorillaServers
20130128	19	GorillaServers

20120912	18	Hostwinds
20121112	18	Hostwinds
20130130	17	Hostwinds
20121107	20	HugeServer
20121126	19	HugeServer
20130410	19	HugeServer
20120828	18	INSIGHT COMMUNICATIONS
20120906	16	INSIGHT COMMUNICATIONS
20120926	15	INSIGHT COMMUNICATIONS
20121010	14	INSIGHT COMMUNICATIONS
20121129	20	KVCHOSTING.COM
20130214	19	KVCHOSTING.COM
20121001	19	Mediacom
20121218	18	Mediacom
20120925	20	Micfo
20130114	20	Micfo
20130222	19	Micfo
20120828	19	MULTACOM
20121226	19	MULTACOM
20130402	18	MULTACOM
20120921	19	Netflix
20130220	18	Netflix
20130313	16	Nobis Technology Group
20130408	15	Nobis Technology Group
20121101	20	OC3 Networks & Web Solutions
20121228	19	OC3 Networks & Web Solutions
20120723	19	OVH Hosting
20120828	18	OVH Hosting
20121207	18	OVH Hosting
20130307	17	OVH Hosting
20121108	19	PEG TECH
20130212	19	PEG TECH
20130418	18	PEG TECH
20120927	20	Psychz Networks
20121128	19	Psychz Networks
20130312	20	RURAL TELEPHONE SERVICE COMPANY
20130329	18	RURAL TELEPHONE SERVICE COMPANY

20121214	20	SERVERYOU
20130208	19	SERVERYOU
20130409	18	SERVERYOU
20120918	19	TelePacific Communications
20121107	18	Telepacific Communications
20120727	17	Unified Layer
20130212	18	Unified Layer
20130301	16	Unified Layer
20121010	17	Viasat Communications
20130221	16	Viasat Communications
20130411	15	Viasat Communications
20120920	18	VINAKOM
20121218	17	VINAKOM
20121026	20	Vivid Hosting
20121211	19	Vivid Hosting
20130111	18	Vivid Hosting
20120720	18	Windstream Communications
20121113	12	Windstream Communications

In addition to the above set of growth organizations there are a collection of others that appear to be constrained by recent policy restrictions. Within the 9 month window of this survey they are periodically acquiring additional address blocks.

20120809	20	Arvixe
20121102	20	Arvixe
20130214	20	Arvixe
20120820	12	AT&T
20130301	12	AT&T
20120808	19	Bluegrass Cellular
20121203	19	Bluegrass Cellular
20130319	19	Bluegrass Cellular
20121005	17	ColoCrossing
20121211	17	ColoCrossing
20130129	17	ColoCrossing
20130312	17	ColoCrossing
20130207	16	Comcast
20130411	16	Comcast
20121206	20	Condointernet.net
20130207	20	Condointernet.net

20120725	17	DISTRIBUTEL COMMUNICATIONS
20130329	18	DISTRIBUTEL COMMUNICATIONS
20120807	16	EGIHosting
20121026	16	EGIHosting
20130114	16	EGIHosting
20130404	16	EGIHosting
20120730	17	ElectronicBox
20121220	17	ElectronicBox
20120808	20	EPB Telecom
20121114	20	EPB Telecom
20130222	20	EPB Telecom
20120806	17	GoDaddy
20121114	17	GoDaddy
20130130	17	GoDaddy
20130405	17	GoDaddy
20121119	20	Google Fiber
20130402	20	Google Fiber
20130409	20	Google Fiber
20120827	19	iWeb Technologies
20121218	19	iWeb Technologies
20120810	19	Linode
20120827	20	Linode
20121022	20	Linode
20121005	18	NetNet
20130301	18	NetNet
20120720	17	Road Runner
20120720	16	Road Runner
20120822	16	Road Runner
20120827	18	Road Runner
20120830	15	Road Runner
20120926	18	Road Runner
20121121	19	Road Runner
20121127	16	Road Runner
20121221	18	Road Runner
20130124	15	Road Runner
20130313	14	Road Runner
20130325	16	Road Runner
20130409	20	Road Runner
20120824	18	SoftLayer
20130116	18	SoftLayer

20120723	17	TekSavvy Solutions
20121115	17	TekSavvy Solutions
20130122	19	TekSavvy Solutions
20130304	17	TekSavvy Solutions
20120719	15	TELUS Communications
20130307	15	TELUS Communications
20120912	16	Ubiquity Server Solutions
20121220	16	Ubiquity Server Solutions
20121010	20	VegasNAP
20130320	20	VegasNAP
20121030	19	WebNX
20130410	19	WebNX
20120921	18	WEBSITEWELCOME.COM
20130408	19	WEBSITEWELCOME.COM
20120926	16	YESUP-COM
20121218	17	YESUP-COM

The graph below shows one potential projection of the remaining ARIN pool when past allocations are given less weight the further back they are from today. Overlaying the final months of the APnic pool provides a sanity check for how aggressive demand could get. As aggressive as the final demand was at APnic, it would be hard to imagine ARIN burning out faster, and this projection is slightly slower. That said given that both APnic, and RIPEncc pools are in final /8 policy modes their members will be looking for any available space, so if they are ARIN members their cumulative demand would make this projection look overly conservative.