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# Ertai's Study of Lesser Wizards

## Quarterly Report Q2

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Temporal Inept

May 31, 2019

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## 1 Introduction

Ertai's Quarterly Report Q2 provides a quantitative survey of cEDH cards and decks with updates following the release of War of the Spark (WAR).

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## 1.1 Data

The cEDH decks, selected in this survey, were taken from AverageDragon's Conglomerate<sup>1</sup>, the decklists were scraped from tappedout.net<sup>2</sup> and deckstats.net<sup>3</sup> and are current as of May 31, 2019. Card meta data was retrieved from Cockatrice's<sup>4</sup> card database.

Full listings of the data compiled for generation of the figures can be found in the Appendixes or downloaded from <https://github.com/TemporalInept/ESoLW>.

## 1.2 Contact

I can be contacted via a variety of methods:

- Email: TemporalAdept@Mail.com
- Discord: DM to TemporalInept#1413
- Reddit: PM to Temporal\_Inept
- TappedOut: [https://tappedout.net/users/Temporal\\_Inept](https://tappedout.net/users/Temporal_Inept)

Feel free to contact me regarding any desired additions, with corrections or hate mail if that is your thing.

## 1.3 Additions

Since the last Quarterly, land parsing has been added and is reflected in the charts. Lands are now collated by categories (Definition A.7), plurality (Definition A.5), and utility (A.6).

Another addition is the playability ratio (PR) (Definition A.1) which has been calculated for and added to card types (Section 2.2). PR provides another way of identifying and comparing staples. For example, in Creatures, Noble Hierarch<sup>5</sup> is ranked 13th by count but by the PR, it is ranked 1 and is the only creature with a PR of 1.

Individual decks now have six charts, adding land producer, mana plurality, land categories and mana base (Definition A.13).

## 1.4 Future Considerations

With the next quarterly, I hope to port the reporting to a web-based format, most likely mtgsalvation.com to allow users to read the report without having to download the pdf file.

The initial intent of this project was to survey cEDH cards by their purpose/effect i.e. draw, counter-spell etc. This will require some form of automatic "tagging" of cards and a major code rewrite which I have already begun. However, I am not able to put a time table on this endeavor.

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<sup>1</sup><https://docs.google.com/spreadsheets/d/1iAcKkzvW55kbRPzAo-AK1Bs43n5S1jk2RaTYBOoF124>

<sup>2</sup><https://tappedout.net>

<sup>3</sup><https://deckstats.net>

<sup>4</sup><https://cockatrice.github.io>

<sup>5</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=179434>

## 1.5 Remainder of Paper

The remainder of this paper covers card stats in Section 2, deck stats in 3 with individual deck listings in Section 4. Appendix A provides definitions used in the survey and Listings of full tables can be found in Appendix B.

## 2 Cards

As of the release of WAR, there are 18715 legal cards in the multiverse with. The 63 surveyed cEDH decks used 879 unique cards<sup>6</sup>.

As a comparison of cards found in the Multiverse versus cards found in cEDH decks, the following tables break down the ratios of Multiverse to cEDH cards by type, by color and by color identity.

Table 1: Multiverse to cEDH types

	Land	Creature	Artifact	Enchantment	Instant	Planeswalker	Sorcery
MTG	626	9991	1844	2304	2327	191	2118
cEDH	130	306	133	73	141	11	128
Per.	0.21	0.03	0.07	0.03	0.06	0.06	0.06

Table 2: Multiverse to cEDH colors

	White	Blue	Black	Green	Red	Colorless	Gold
MTG	2878	2812	2856	2835	2847	2549	1938
cEDH	53	173	95	152	73	259	74
Per.	0.02	0.06	0.03	0.05	0.03	0.10	0.04

Table 3: Multiverse to cEDH color identities

	White	Blue	Black	Green	Red	Colorless	Gold
MTG	2876	2818	2860	2821	2853	1915	2572
cEDH	57	182	108	156	76	159	141
Per.	0.02	0.06	0.04	0.06	0.03	0.08	0.05

Throughout the remainder of the survey, unless otherwise specified, all graphs/tables refer to the color identity (Definition A.12) of cards vice their color.

Before moving on, each of the last four previous releases only had two cards make the cEDH cut. With WAR, there were 13 additions: Blast Zone, Narset, Parter of Veils, Bolass Citadel, Karn, the Great Creator, Jace, Wielder of Mysteries, Ashiok, Dream Render, Narset’s Reversal, Finale of Devastation, Finale of Promise, Niv-Mizzet Reborn, Dovins Veto, Neoform and Emergence Zone.

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<sup>6</sup>A complete listing (Card-histogram-alphabetically.tsv) of all cards can be downloaded from <https://github.com/TemporalInept/ESoLW>

## 2.1 By Color Identity

In this section, cards are broken down by color identity to include Colorless and Gold. Each section shows the top 20, CMC histogram and card type histogram.

### 2.1.1 White Cards

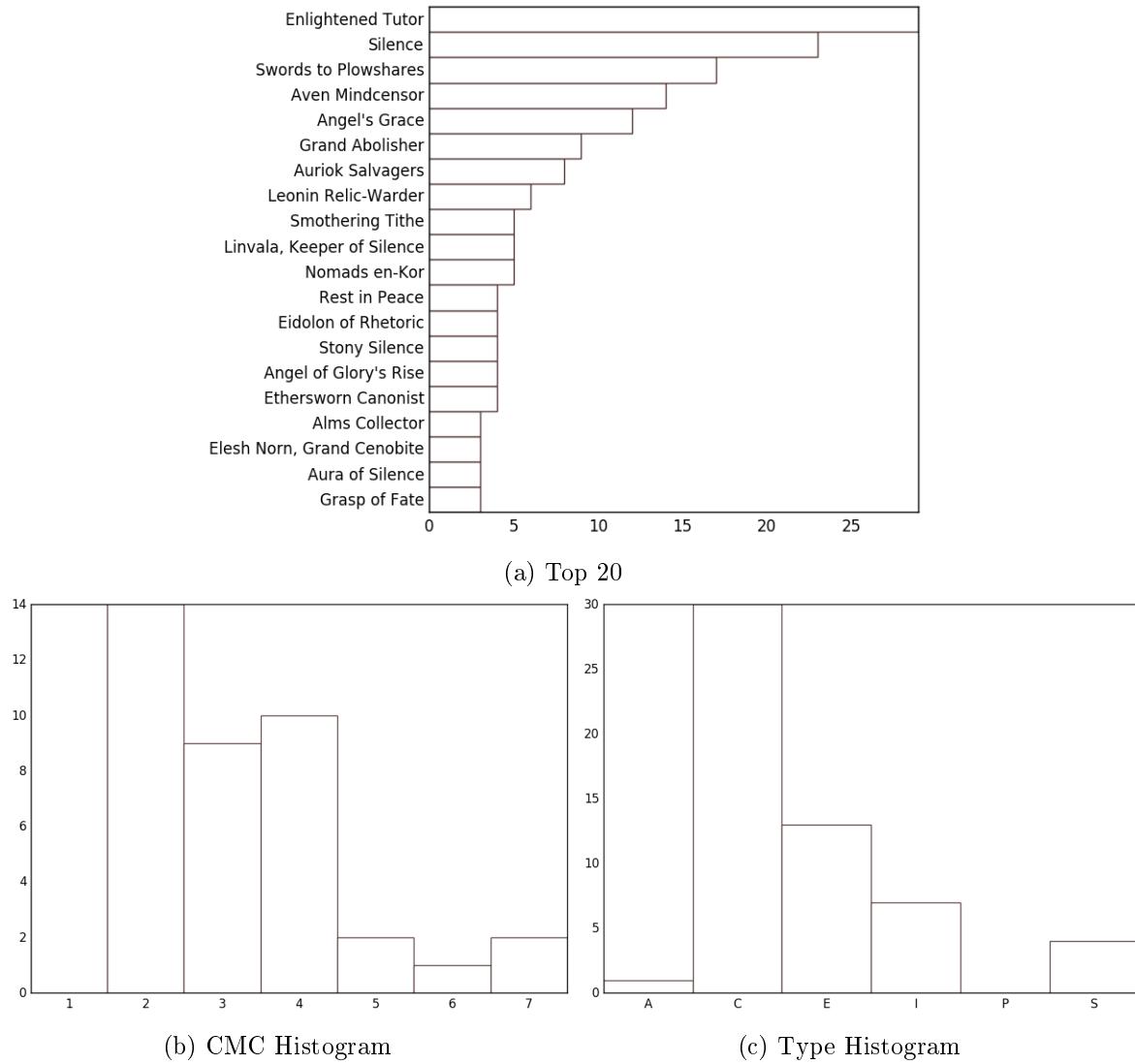
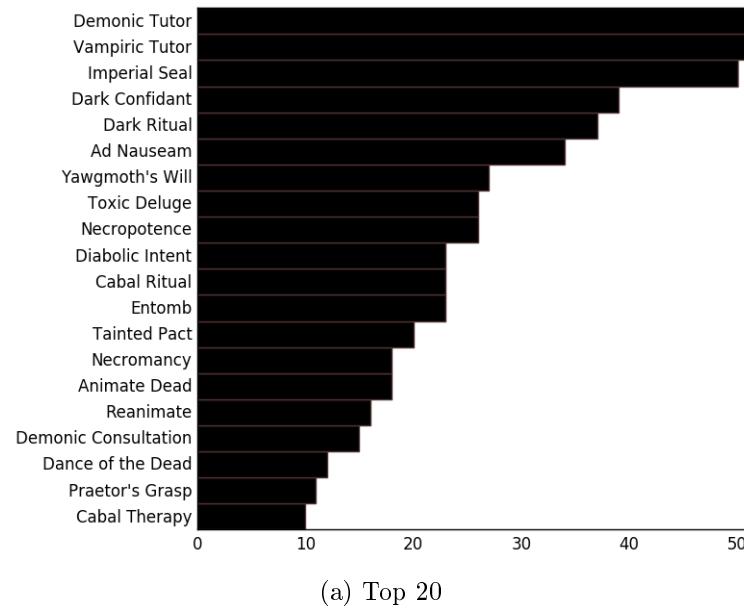
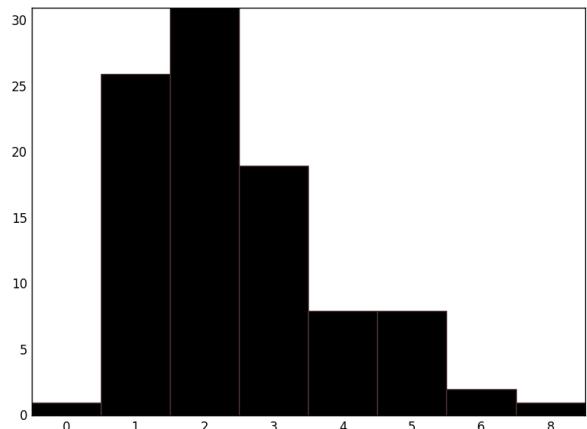


Figure 1: White Cards

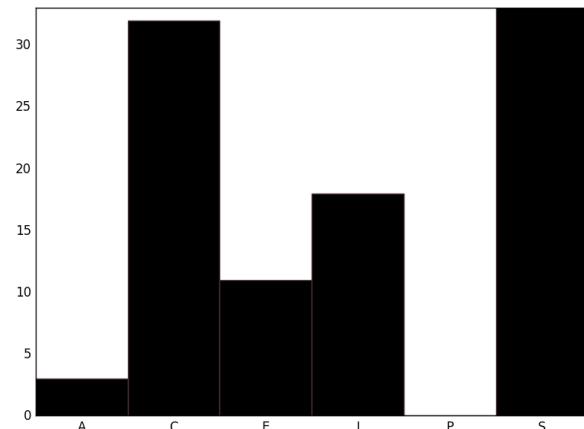
### 2.1.2 Black Cards



(a) Top 20



(b) CMC Histogram



(c) Type Histogram

Figure 2: Black Cards

### 2.1.3 Blue Cards

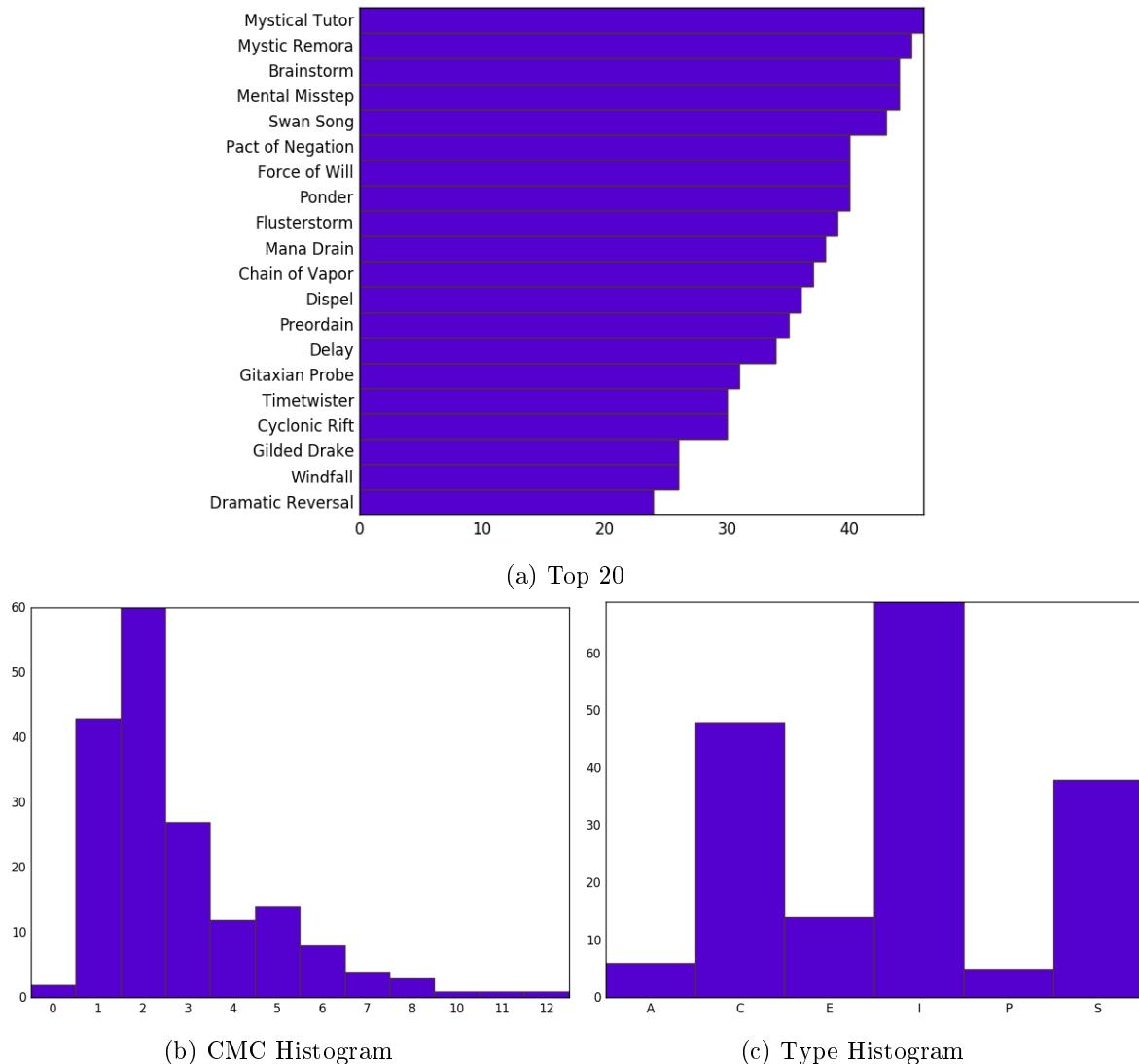


Figure 3: Blue Cards

#### 2.1.4 Green Cards

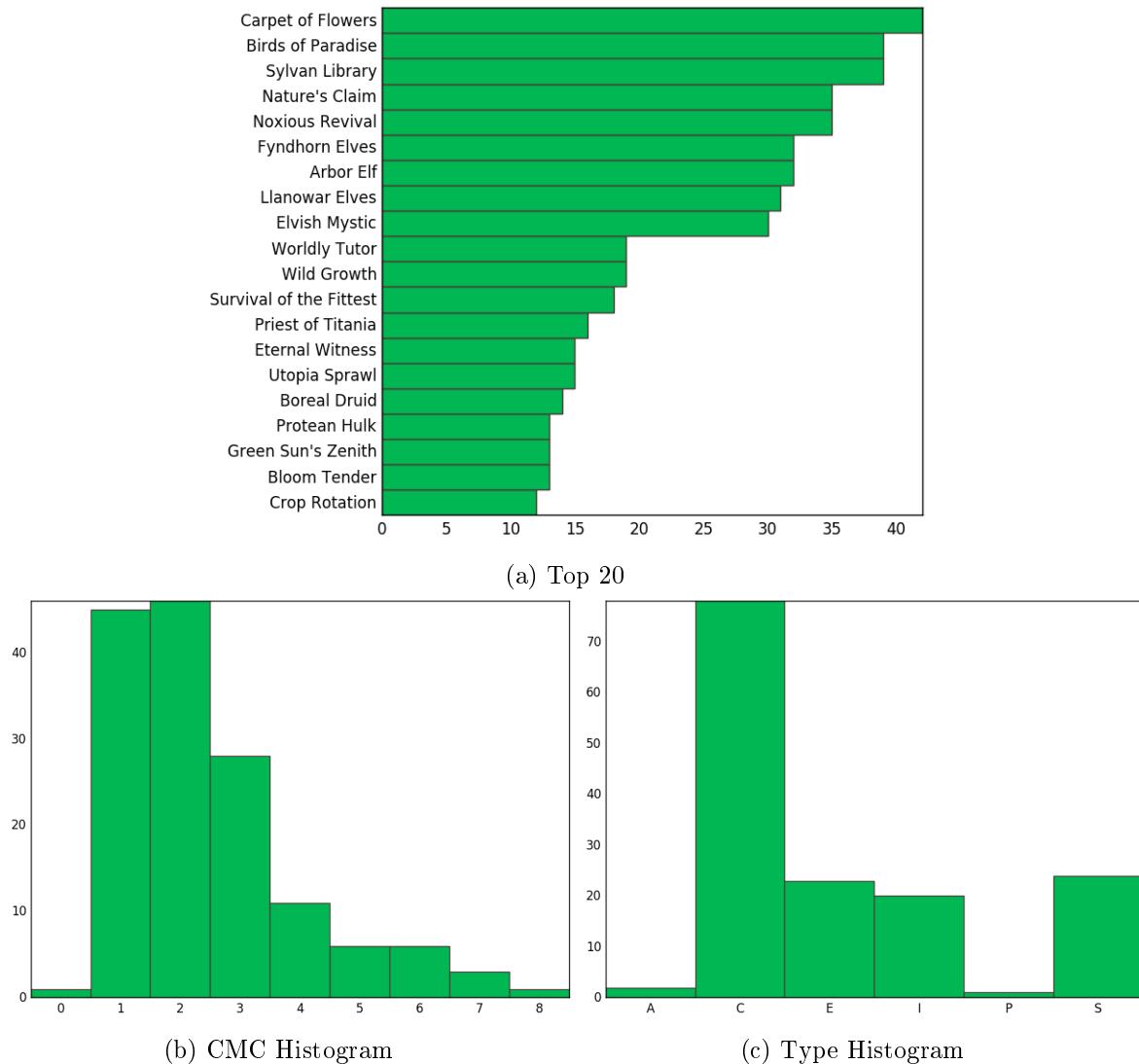


Figure 4: Green Cards

### 2.1.5 Red Cards

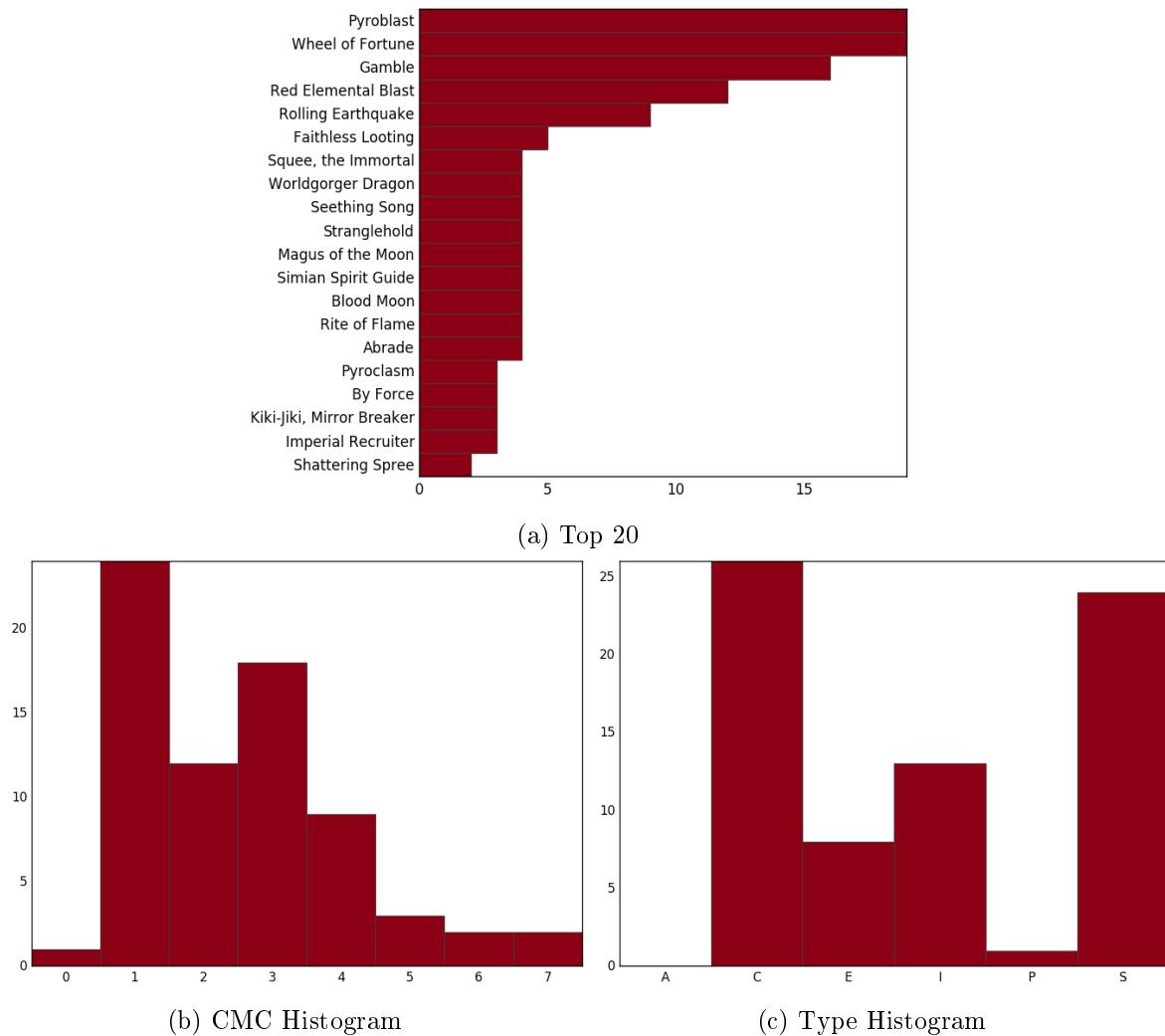


Figure 5: Red Cards

### 2.1.6 Colorless Cards

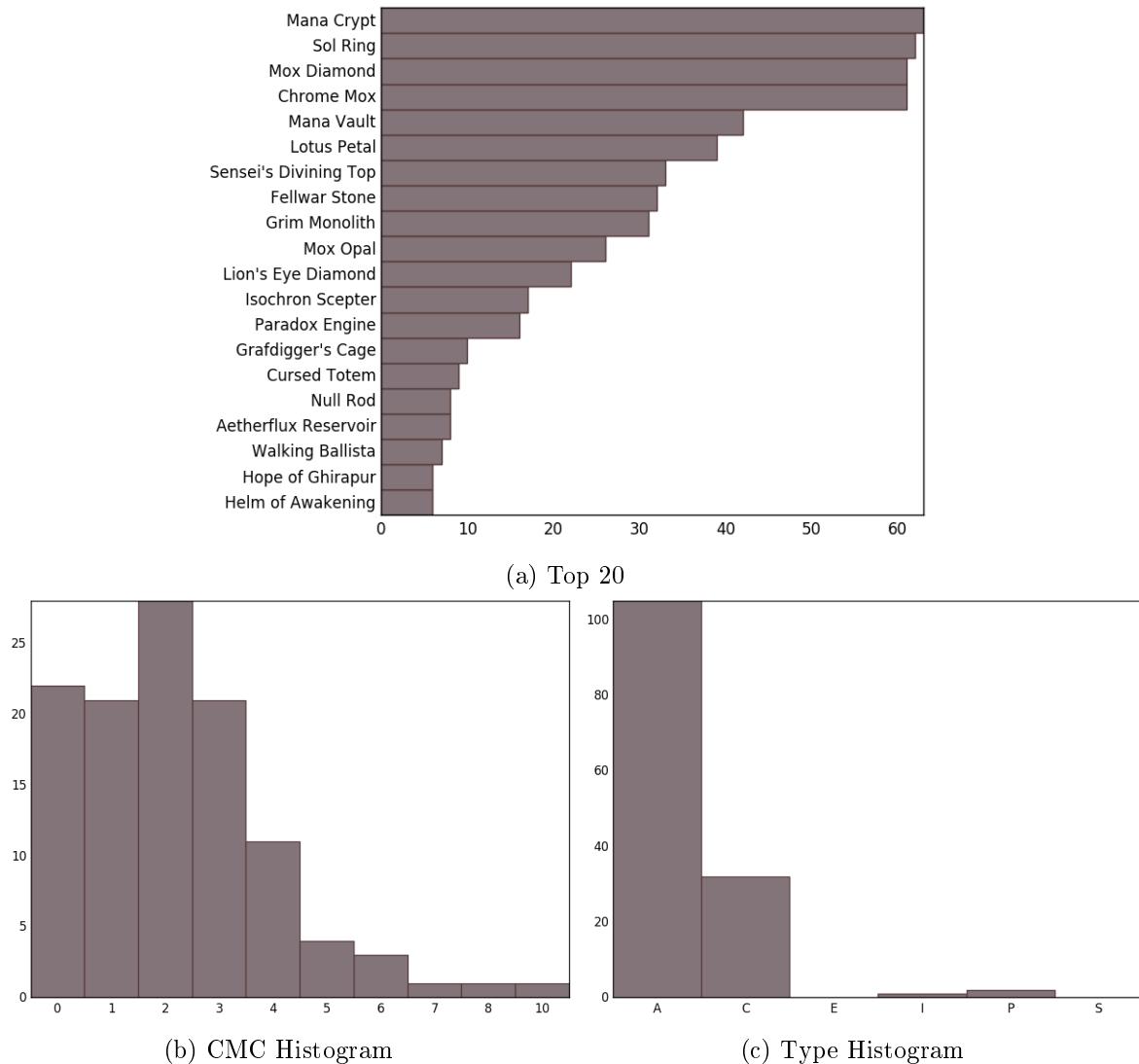


Figure 6: Colorless Cards

### 2.1.7 Gold Cards

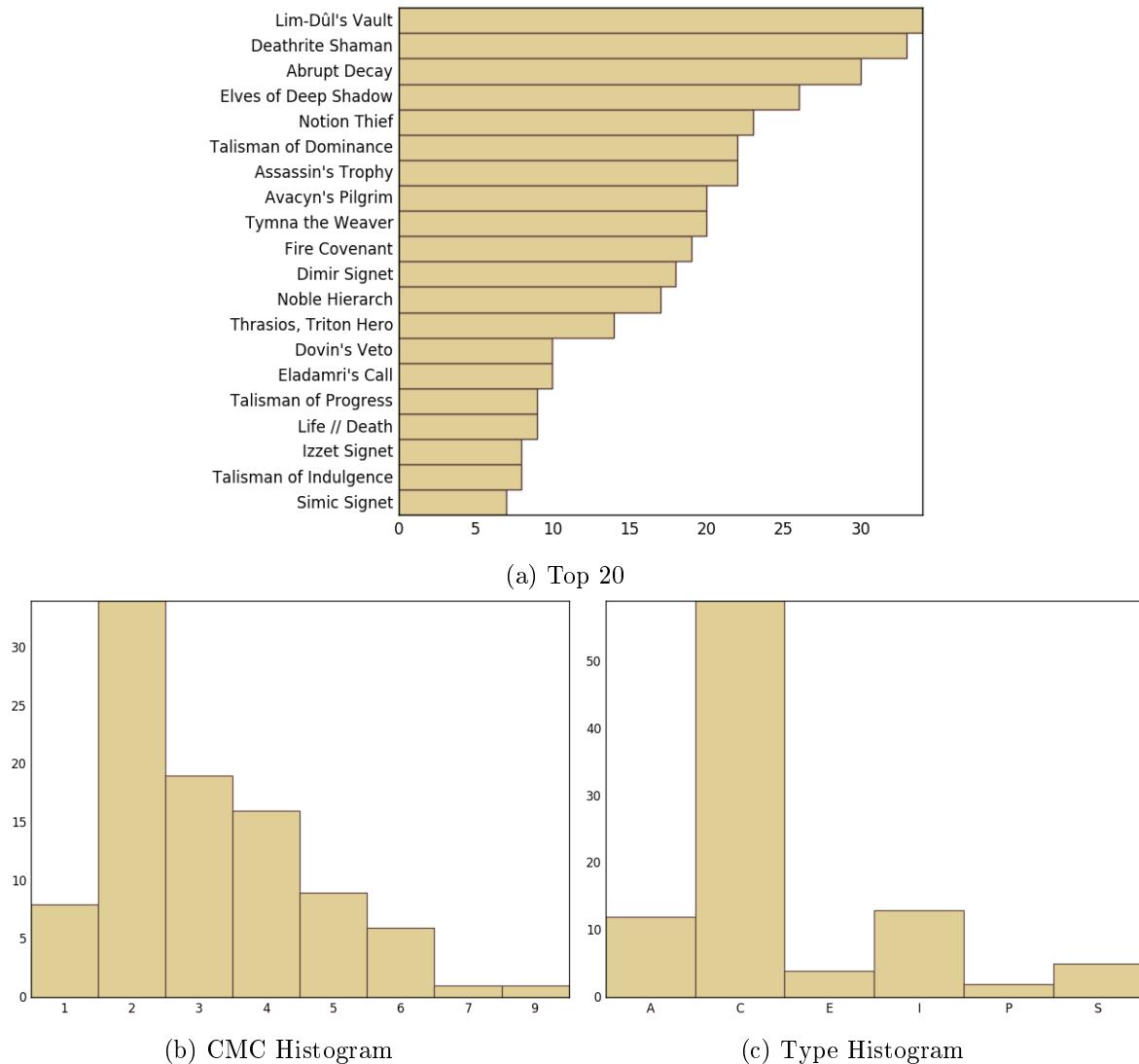


Figure 7: Gold Cards

## 2.2 By Type

This section breaks down cards by type. Where applicable, each type has charts for the top 20, top 20 by playability ratio (Definition A.1), color identity, CMC and alternate/reduced CMC (Definitions A.2 and A.3).

### 2.2.1 Lands

For lands, we show the top 20, a break downs of land categories (Definition A.7), land plurality (A.5) and land utility categories (A.6).

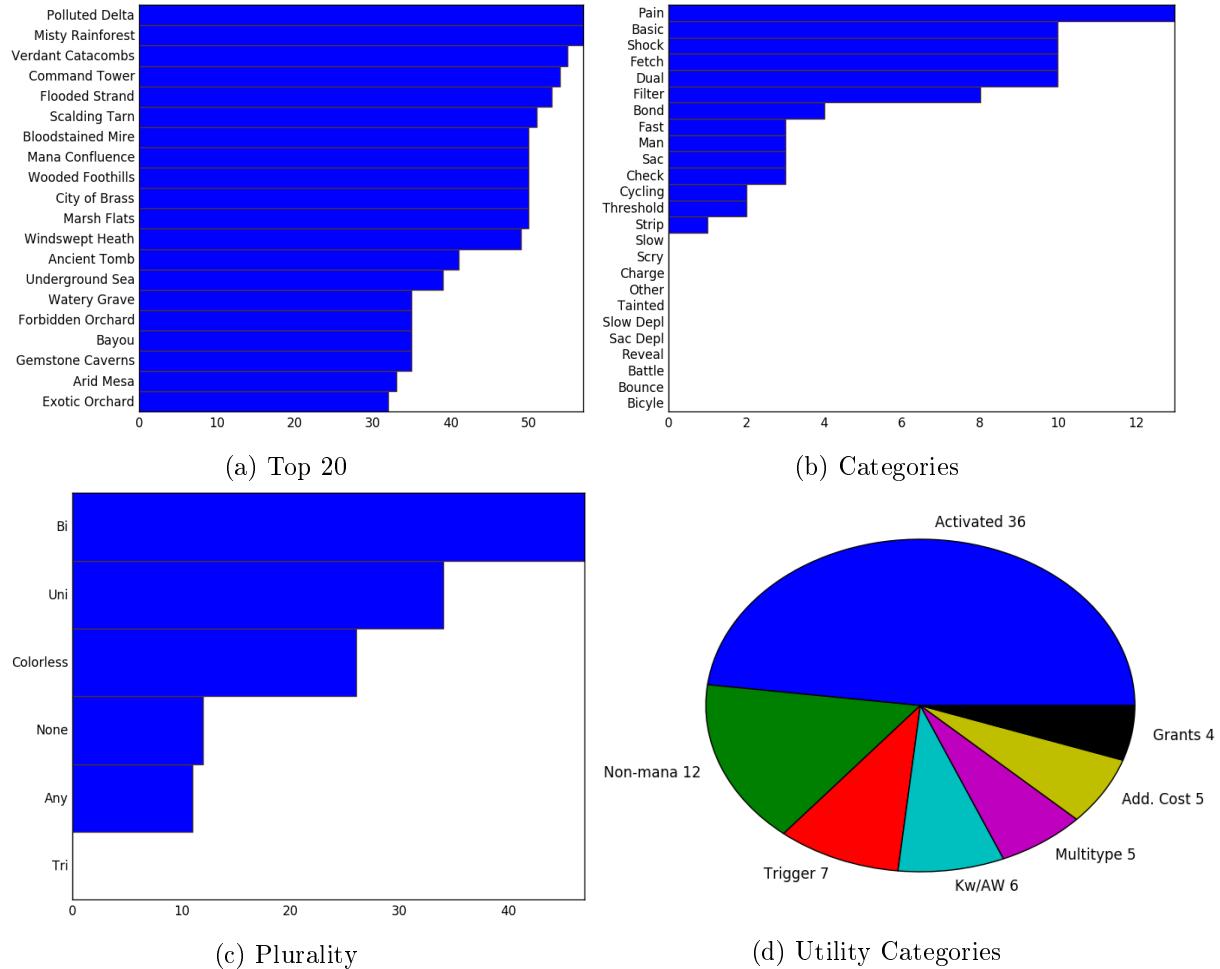


Figure 8: Lands

## 2.2.2 Creatures

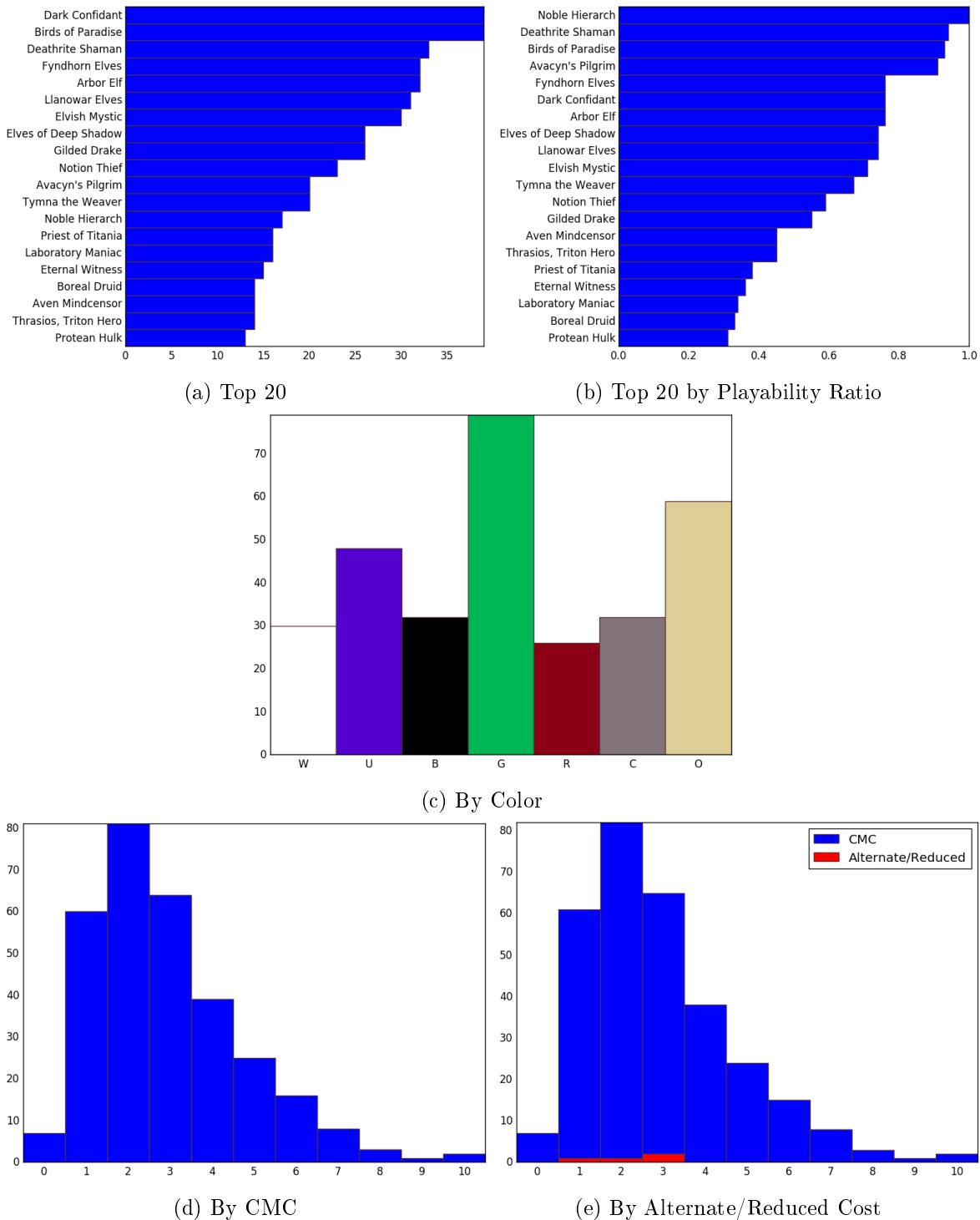


Figure 9: Creatures

### 2.2.3 Artifacts

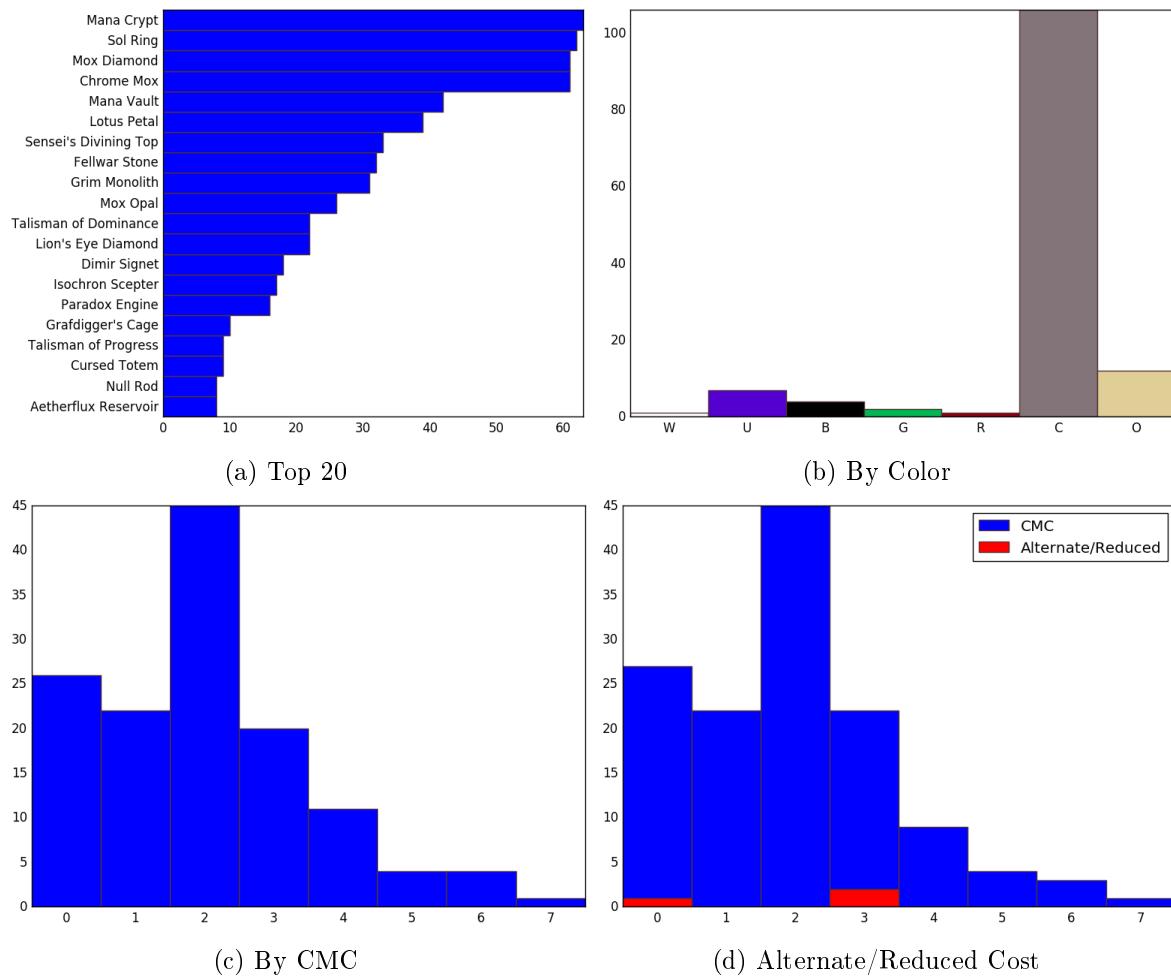


Figure 10: Artifacts

## 2.2.4 Enchantments

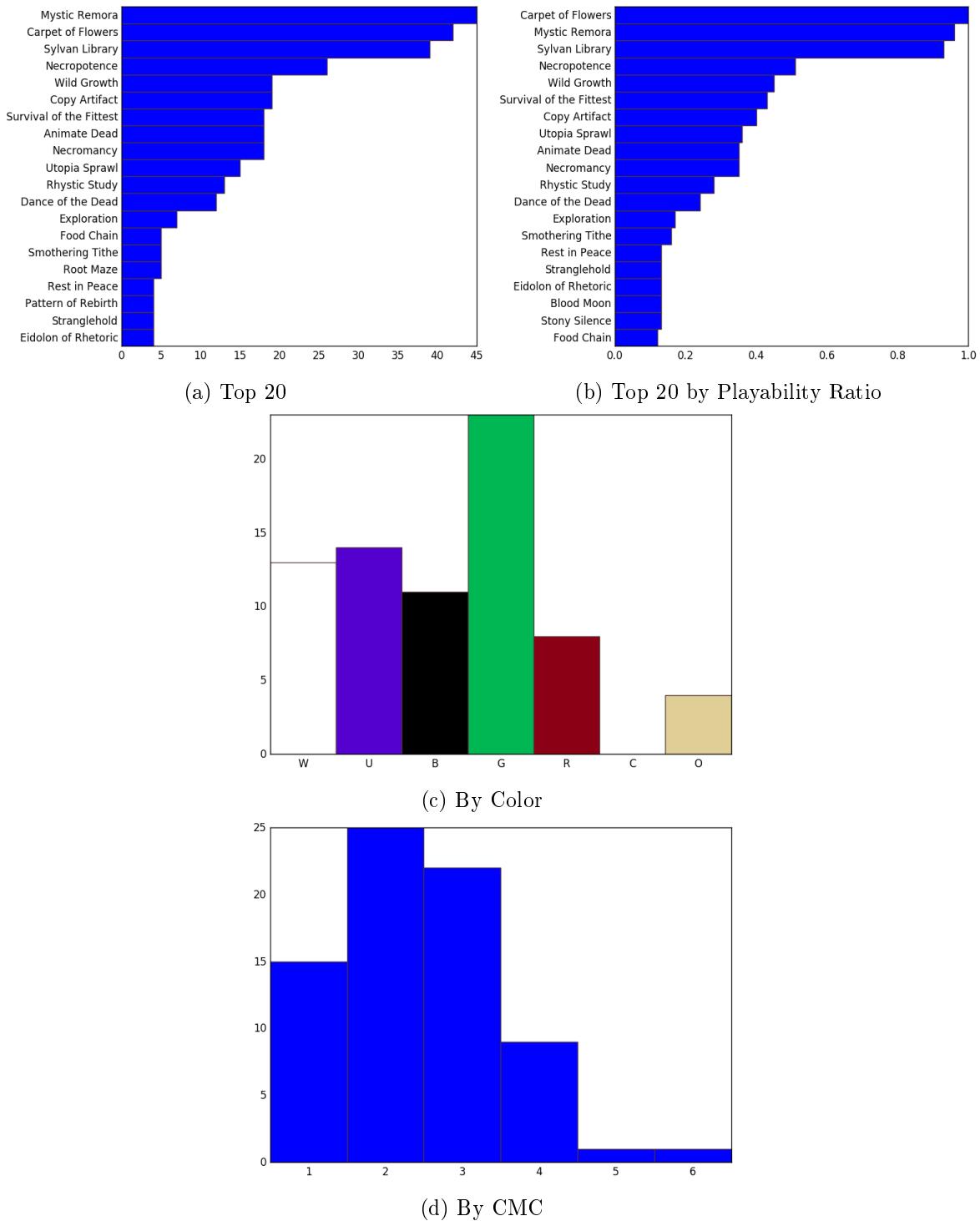


Figure 11: Enchantments

## 2.2.5 Instants

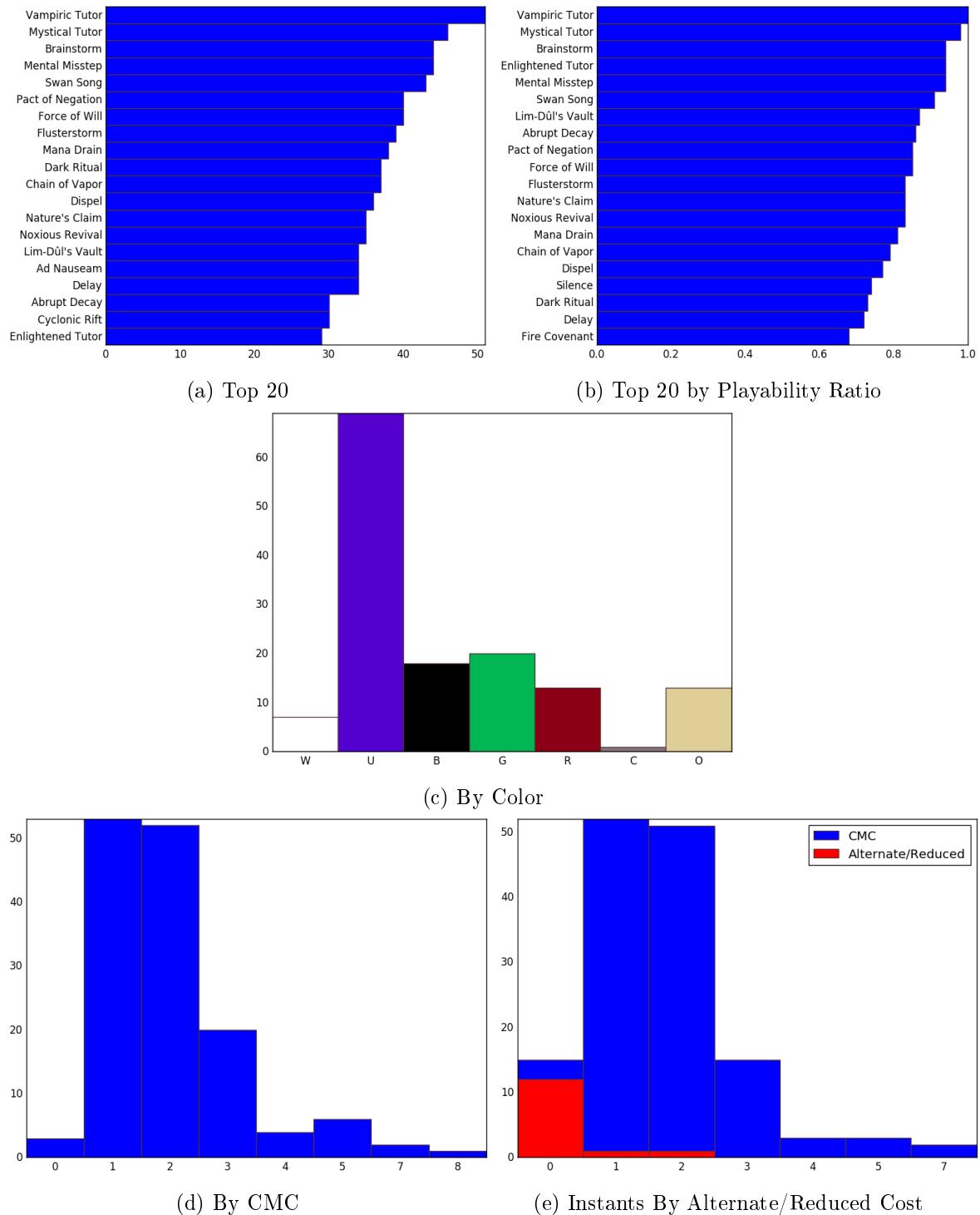


Figure 12: Instants

## 2.2.6 Planeswalkers

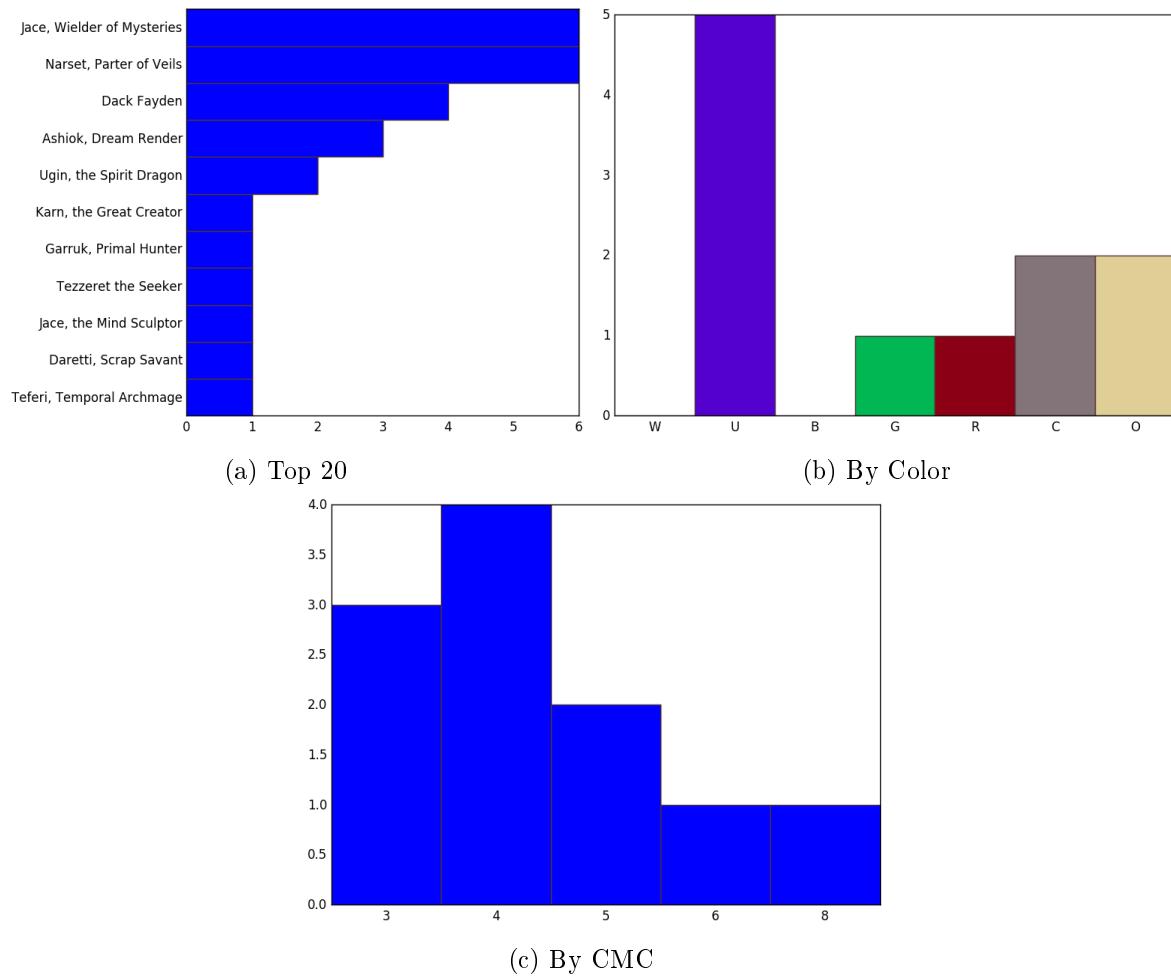


Figure 13: Planeswalkers

### 2.2.7 Sorceries

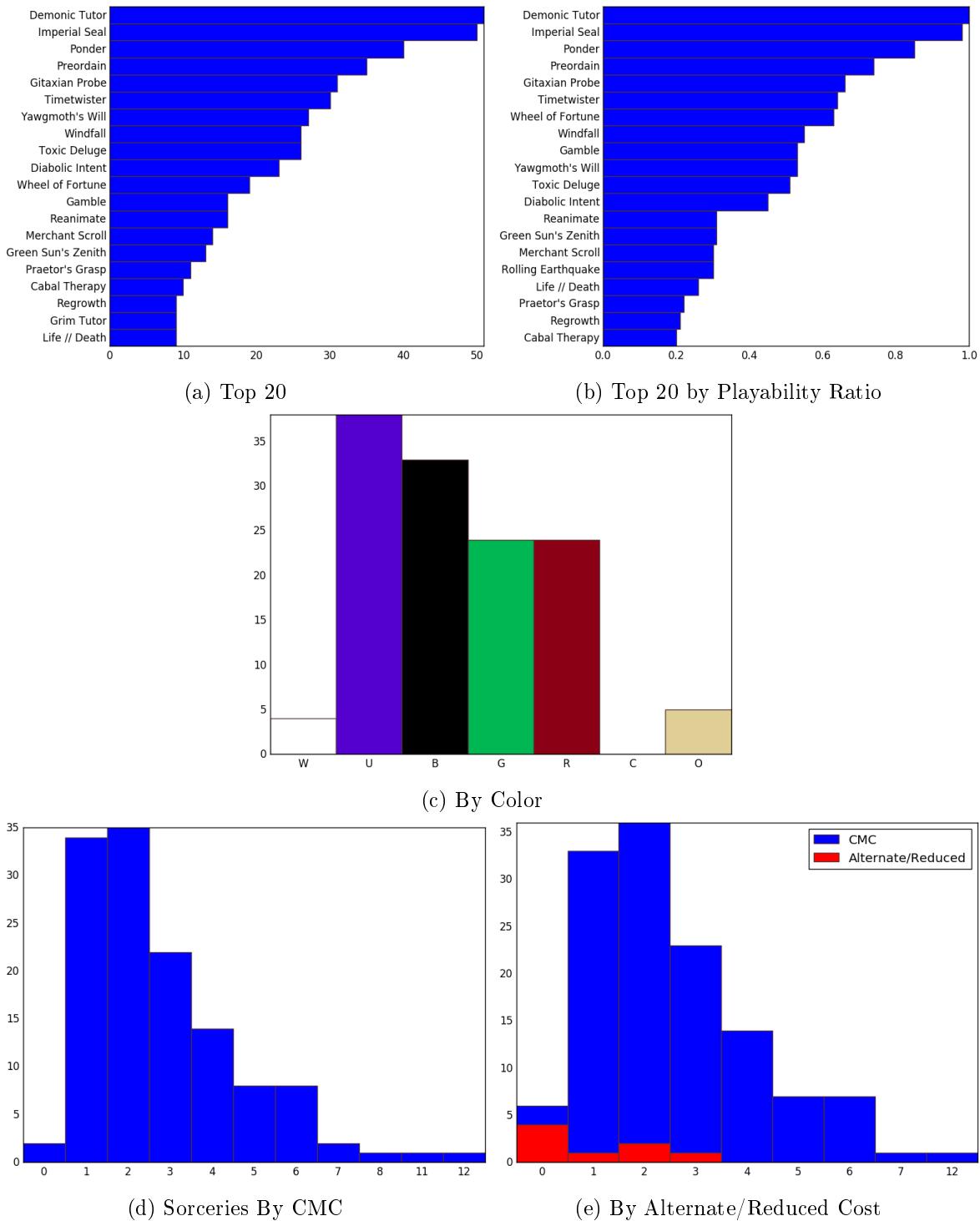


Figure 14: Sorceries

## 2.3 Alternate and Reduced Casting Cost

This section covers Alternate (Definition A.2) and Reduced casting costs (Definition A.3).

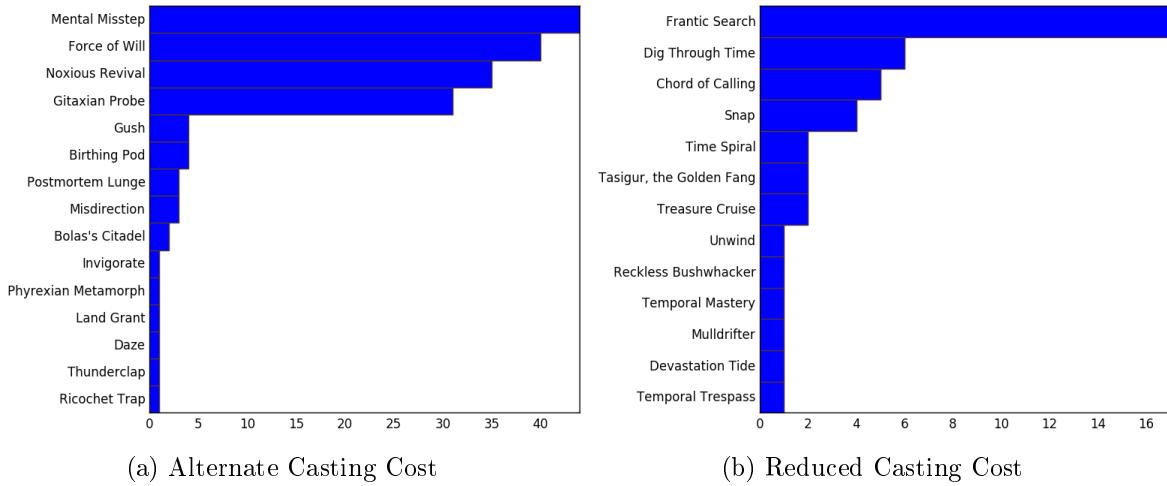


Figure 15: Alternate and Reduced Casting Costs

## 2.4 Multiple Mana

This section covers cards with multiple mana symbols in the casting cost.

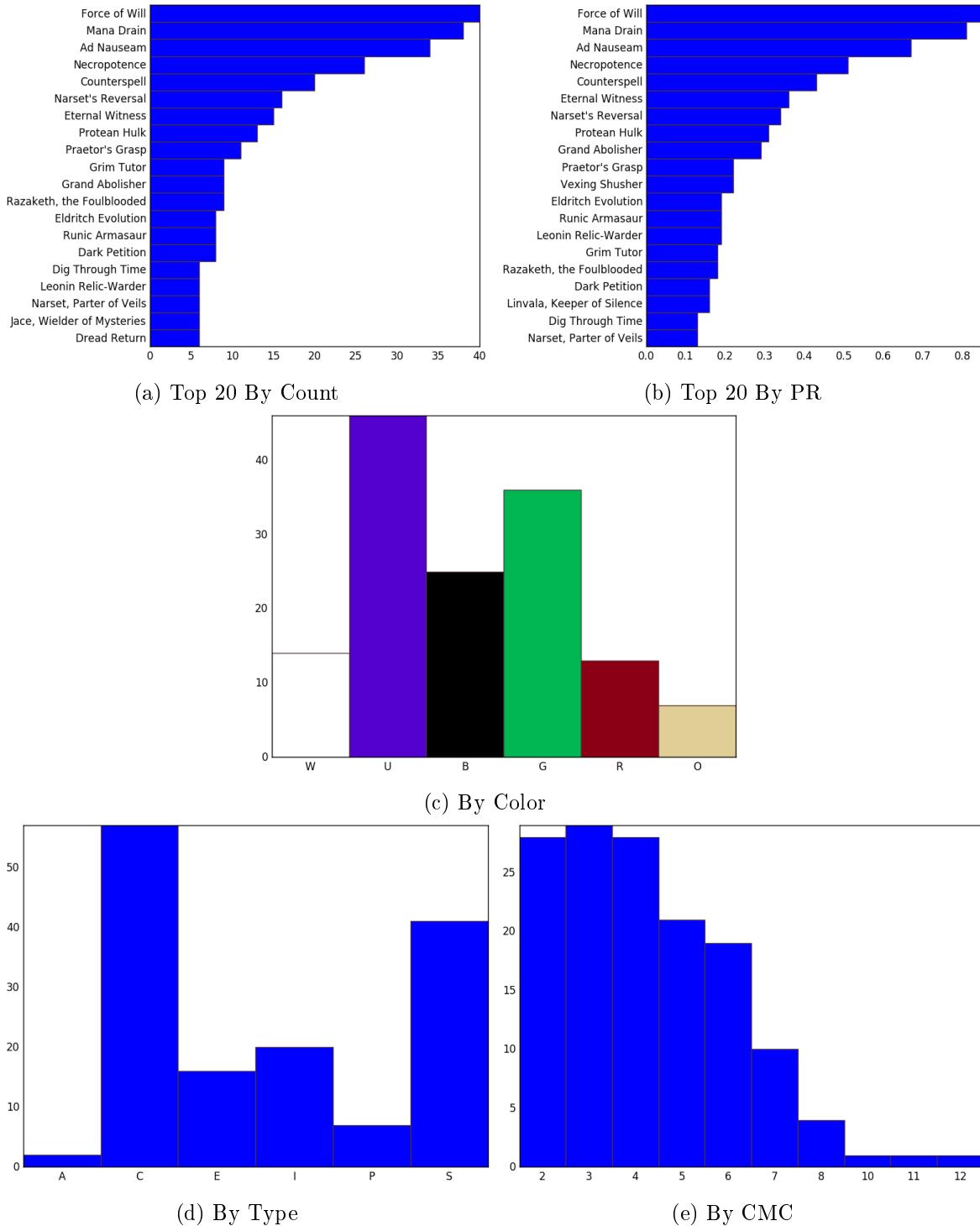


Figure 16: Multiple Mana

## 2.5 Keywords and Ability Words

This section provides a look at the ability words and keywords present in cEDH cards.

NOTE: The Figures below are sorted by the unique count of the Keyword (or Ability Word). That is, duplicate occurrences of cards are not counted. The Tables in Appendix B.5 show both the unique count and the total count and the online version also includes the names of the cards for each Keyword (or Ability Word).

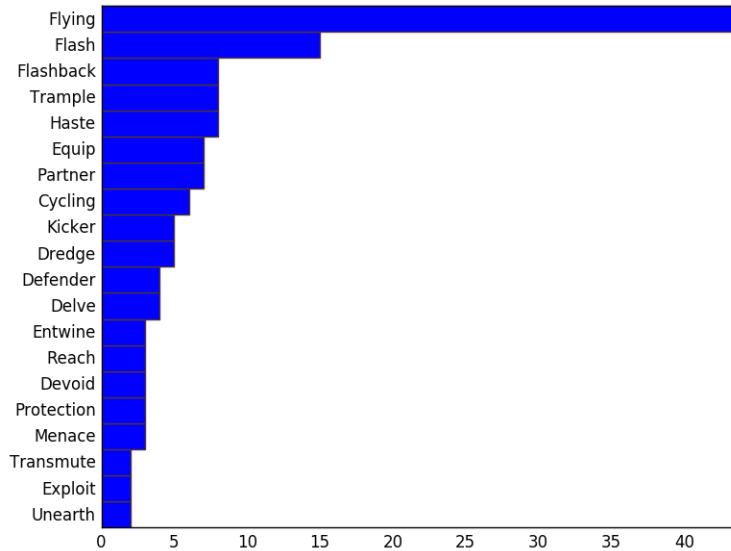


Figure 17: Top 20 Keywords

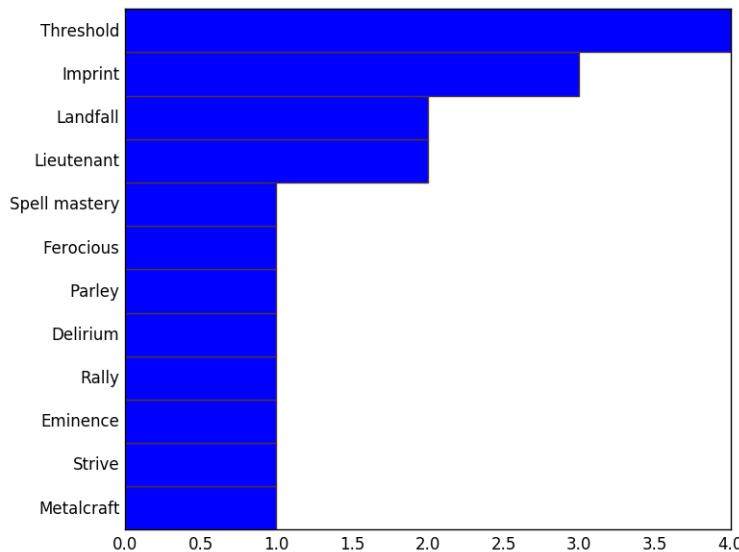


Figure 18: All Ability Words

## 2.6 Abilities and Triggers

### 2.6.1 ETBs and Triggered Abilities

This sections provides a look at enters the battlefield (ETB) and non-ETB triggered abilities<sup>7</sup>.

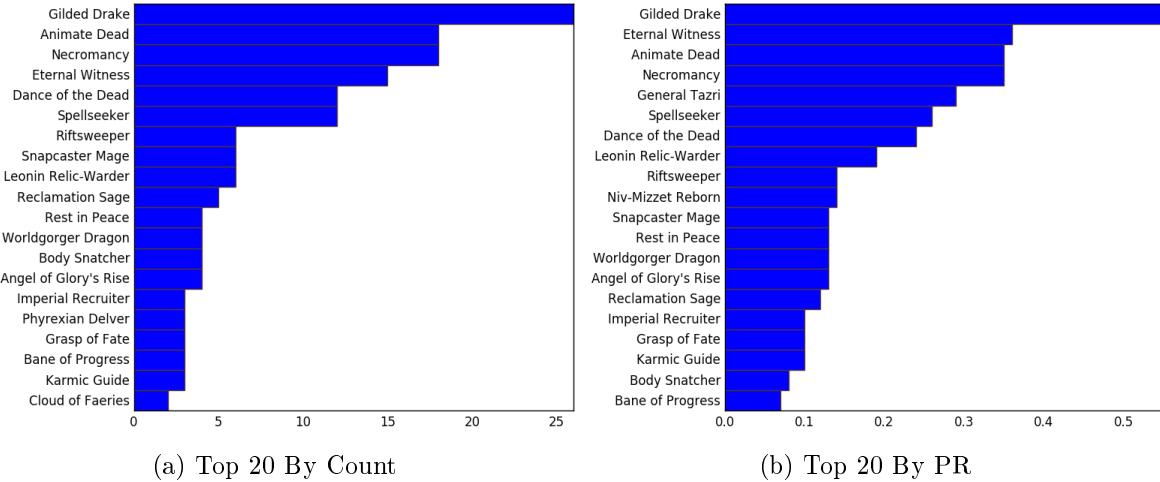


Figure 19: ETBs

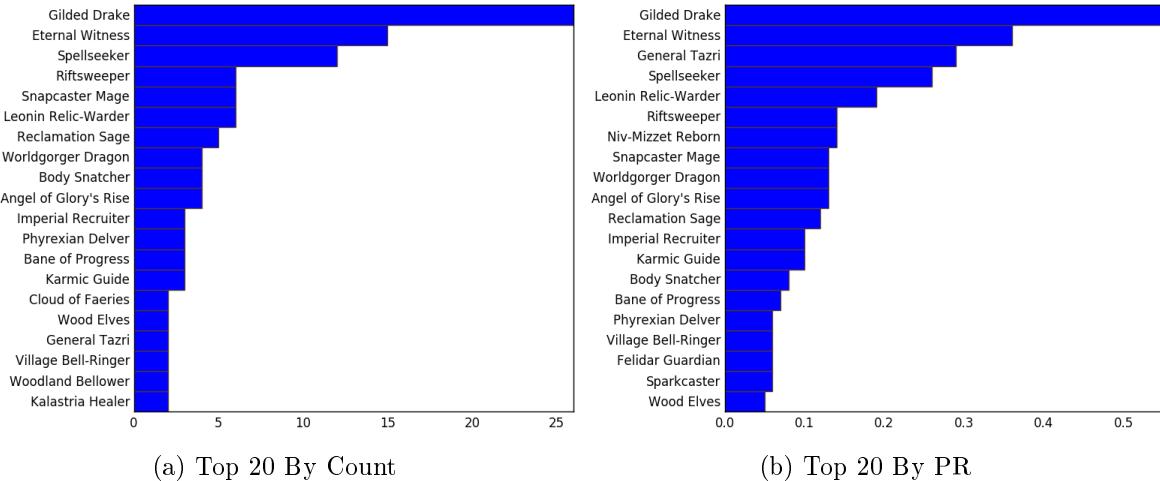


Figure 20: Creature ETBs

<sup>7</sup>Several cards that would be considered negative triggers were hard-coded for exclusion. These include cards like City of Brass and Mana Crypt. The full list of exclusions is available in the Appendix.

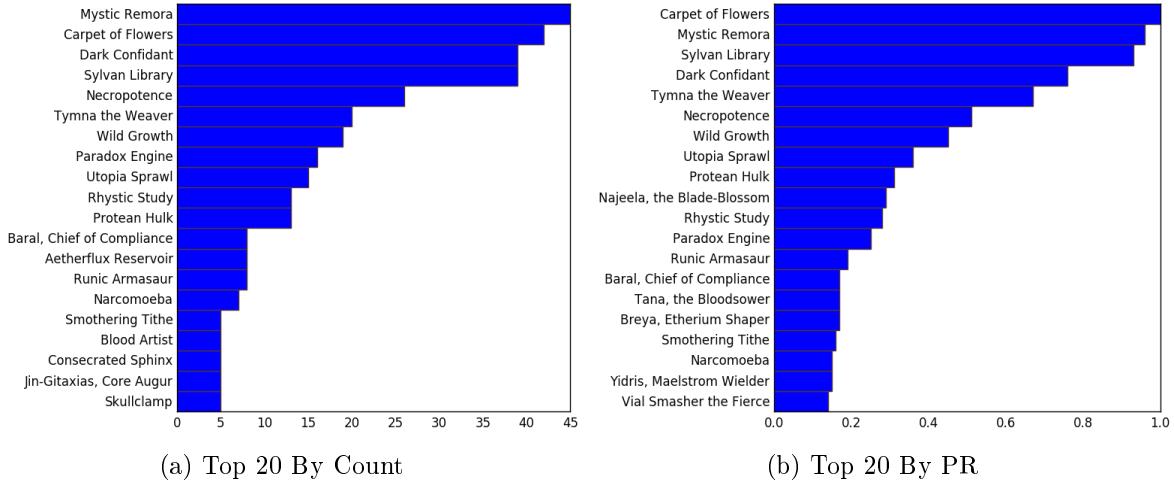


Figure 21: Non-ETB Triggers

### 2.6.2 Activated Abilities

This section covers Activated Abilities found in cEDH cards. It does not include lands that only tap for mana.

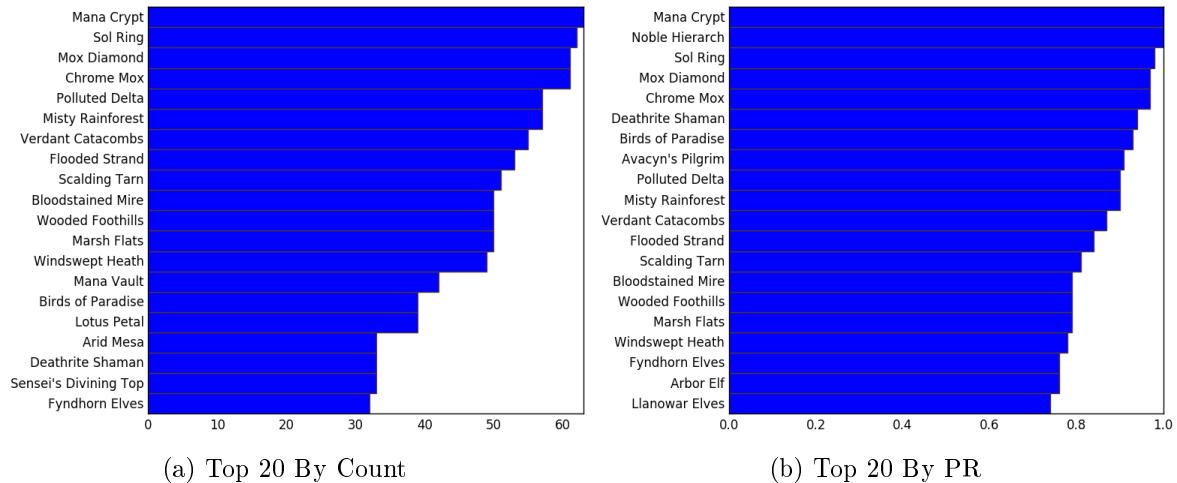


Figure 22: All Activated Abilities

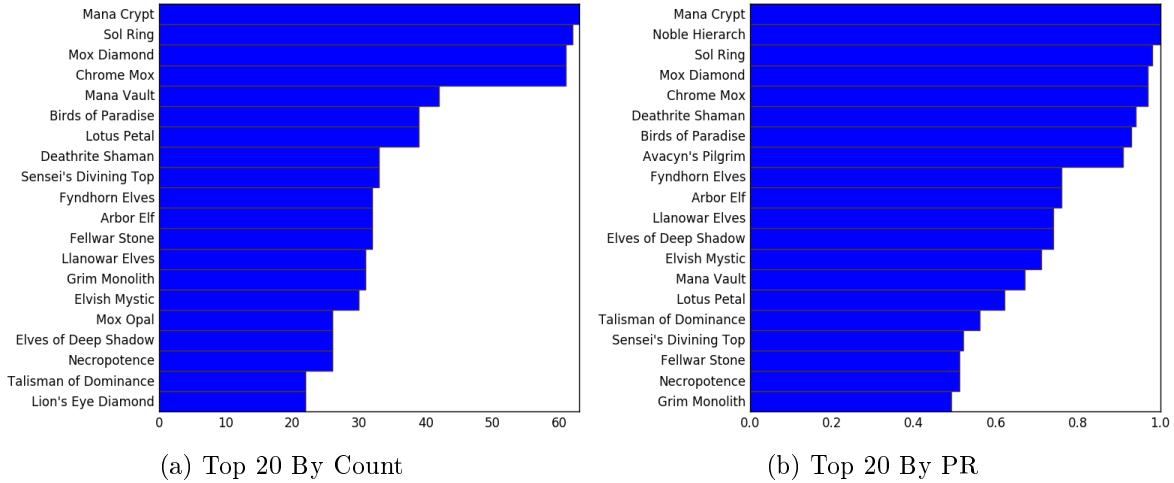


Figure 23: Nonland Activated Abilities

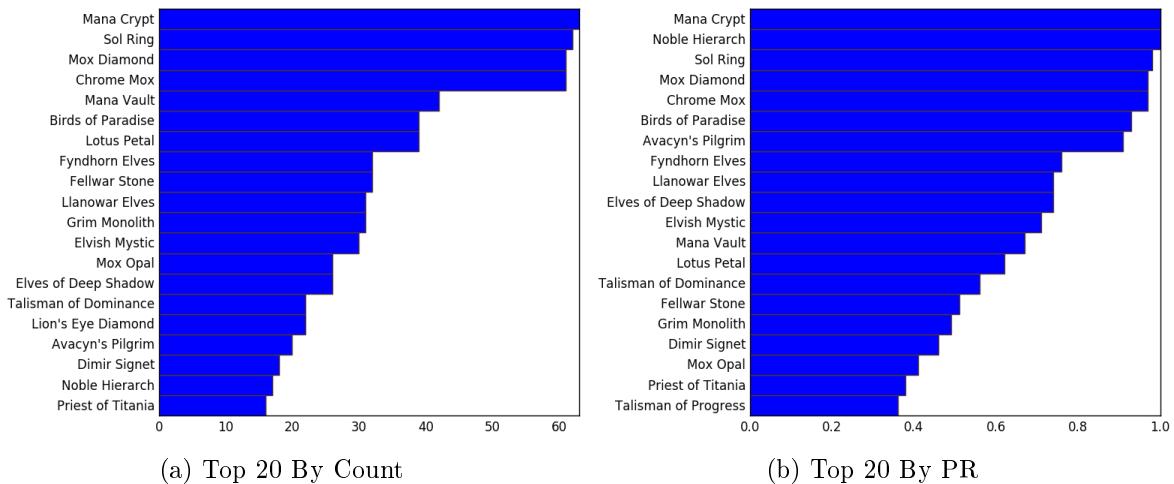


Figure 24: Mana Activated Abilities

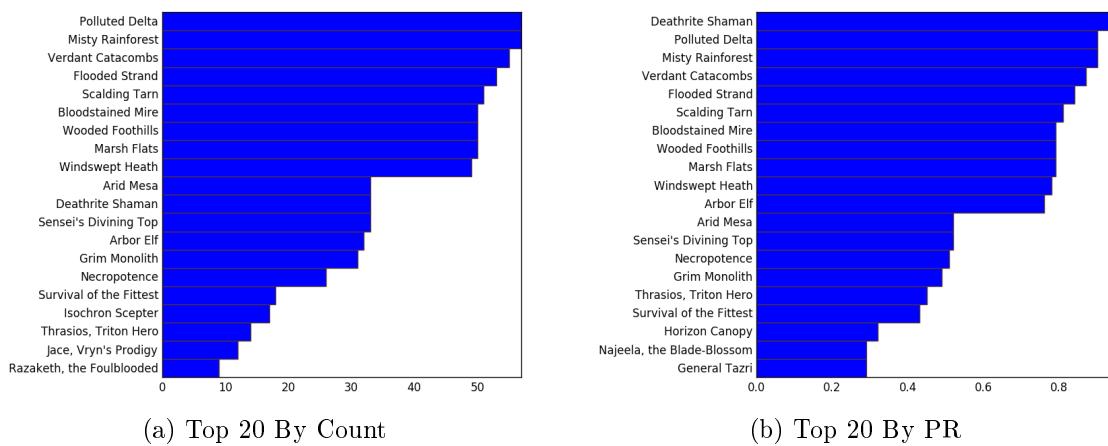


Figure 25: Non-mana Activated Abilities

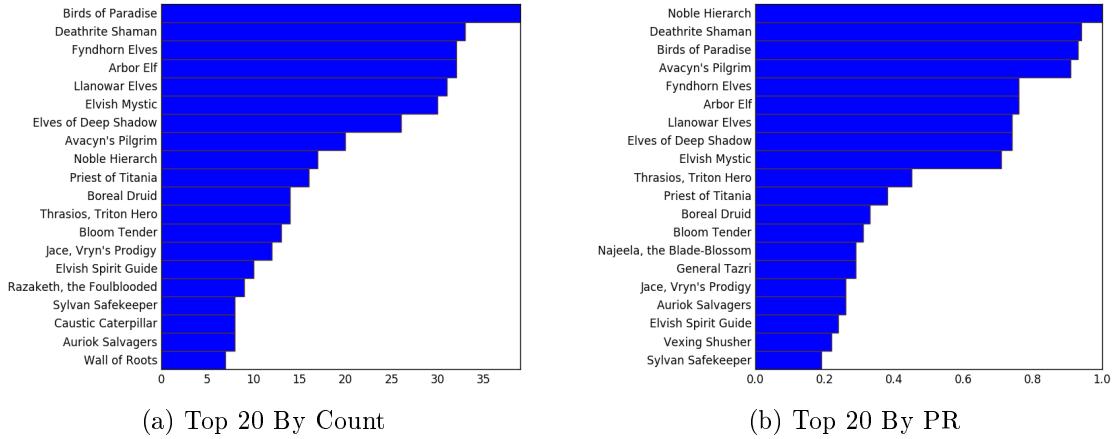


Figure 26: Creature Activated Abilities

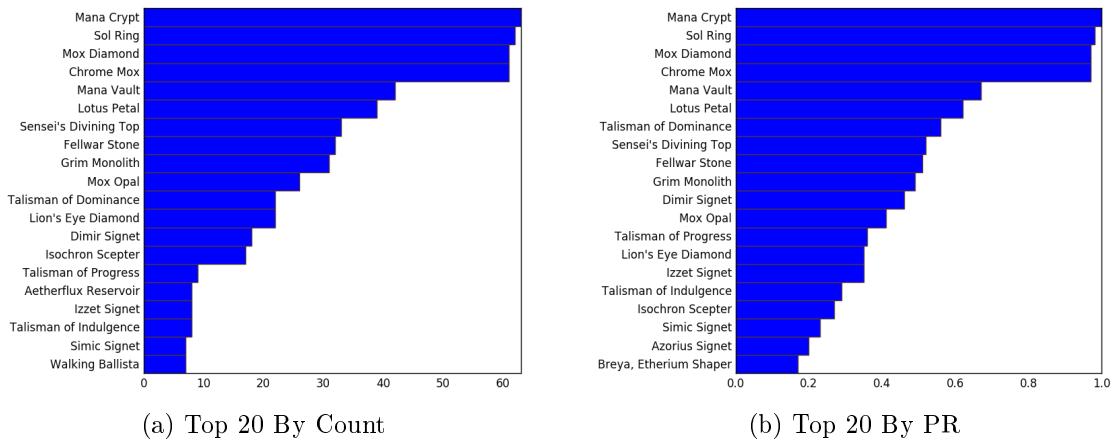


Figure 27: Artifact Activated Abilities

### 3 Decks

A total of 63<sup>8</sup> cEDH decks were surveyed. This section, shows the range (low, high and average) of card types, land categories and mana producers as well as a side by side comparison of basic stats. Since the Q1 report, 4 decks have been added, 2 were removed and 27 were updated. Table 4 has an additional column "Status" which reflects the changes in decks from last quarter.

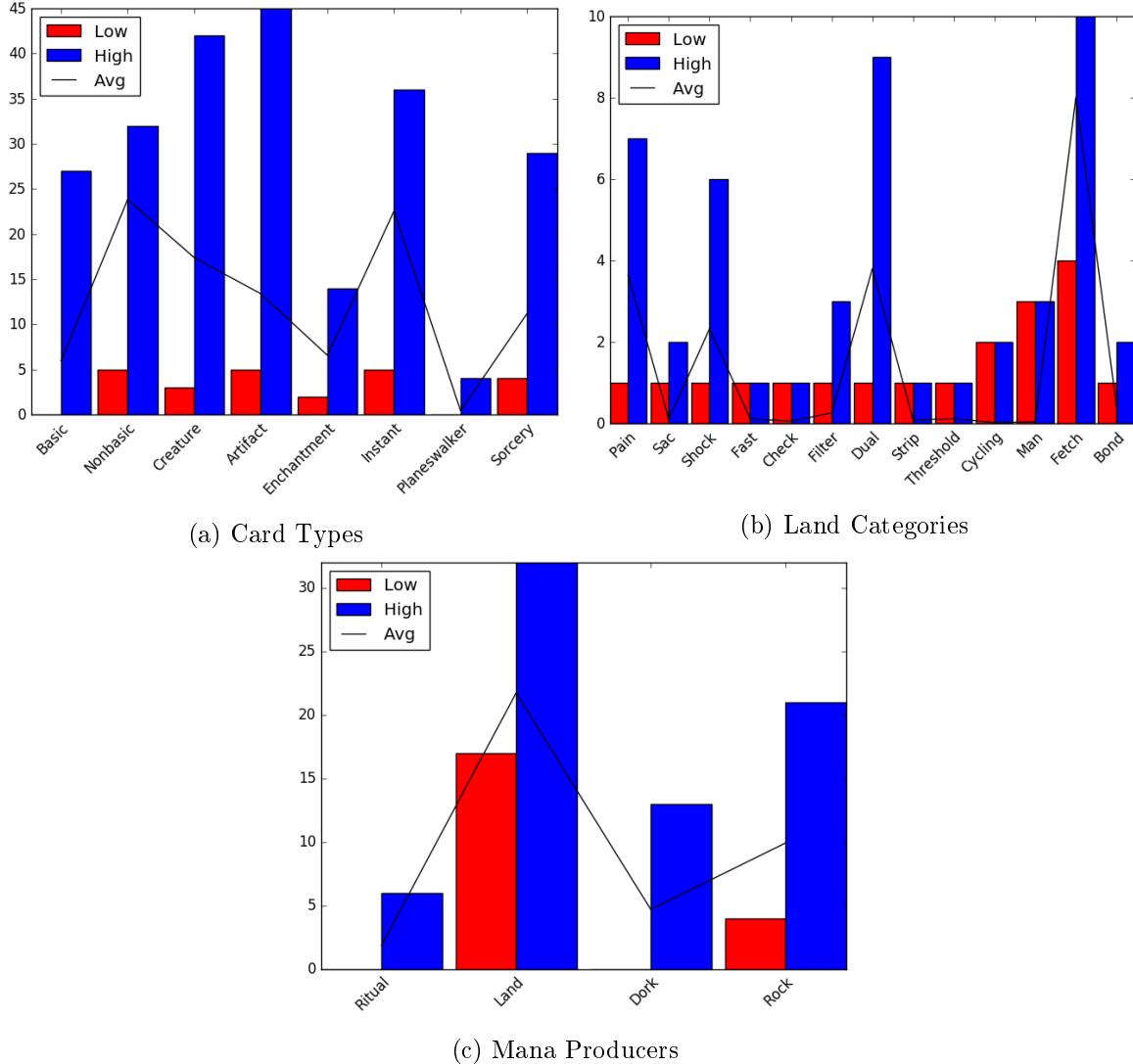


Figure 28: Deck Comparisons

Table 4: Side by side deck comparison

Deck	Status	Color	Lands			Spells					
			CMC	IR	B.	NB	A	C	E	I	P
4c Lightning Druid	Update	WUBG	1.77	0.44	0	29	10	28	6	15	0
											13

<sup>8</sup> At the time AverageDragon's conglomerate was downloaded, there were 61 decks. We have included two previous decks that were removed, Bad Farm and Mad Farm

Table 4: Side by side deck comparison

Deck	Status	Color	CMC	IR	Lands				Spells			
					B.	NB	A	C	E	I	P	S
4c Rashmi	Update	UBRG	1.97	0.57	2	28	14	9	10	28	1	8
5c Lightning Druid	No Change	WUBRG	1.70	0.44	0	29	9	29	8	14	0	12
BUGR Paradox Scepter	No Change	UBRG	1.72	0.61	2	26	15	7	8	30	0	12
Bad Farm	Removed	WBG	1.56	0.46	4	25	17	21	9	18	0	10
Baral Control	No Change	U	2.19	0.64	25	6	17	5	4	33	1	9
Blood Pod	No Change	WBRG	2.30	0.30	6	27	9	36	12	8	0	4
Breakfast Hulk	Update	WUBG	1.72	0.55	0	29	5	23	5	26	0	12
Breya Consultation	Update	WUBR	1.73	0.68	2	27	17	6	2	33	1	13
Buried Alive Razaketh Sidisi	No Change	B	1.72	0.44	21	11	29	13	3	13	0	16
Divergent Control	No Change	UBRG	1.94	0.61	2	28	17	4	8	28	0	13
Doomsday Breya	No Change	WUBR	1.88	0.61	0	28	16	9	5	28	1	14
Doomsday Yidris	No Change	UBRG	1.88	0.61	2	26	17	7	4	28	0	16
Doomsday Zur	No Change	WUB	1.82	0.67	9	19	16	5	4	33	0	14
E-MAN	No Change	WUBG	1.86	0.61	2	26	16	12	7	28	0	9
Edric Turns	Update	UG	2.11	0.41	9	20	7	33	5	17	0	12
Food Chain Niv	New	WUBRG	1.71	0.62	1	27	6	23	6	28	0	9
Food Chain Prossh	No Change	BRG	1.83	0.47	4	24	10	33	7	16	0	9
Food Chain Tazri	Update	WUBRG	1.69	0.62	1	27	6	22	5	28	0	11
Gitrog Dredge	Update	BG	1.78	0.55	4	32	8	19	8	17	0	12
Godot Helm	Update	R	2.21	0.50	18	14	40	9	3	11	1	8
Grixix Consultation	Update	UBR	1.81	0.61	3	27	14	5	5	30	1	15
Grixix Twin	No Change	UBR	2.18	0.57	2	30	11	9	5	24	1	18
HE-MAN	No Change	WUBG	1.71	0.60	4	24	16	7	9	28	0	12
Harvest Animar	Update	URG	2.10	0.36	2	29	8	42	6	11	0	6
High Tide Jace	Update	U	2.31	0.57	27	5	14	5	3	30	1	15
Honorbru Meren	Update	BG	2.17	0.29	8	23	8	30	12	8	0	12
Hulkweaver	No Change	WUBG	1.93	0.47	3	27	6	29	11	21	0	5
Jeleva Storm	No Change	UBR	2.03	0.58	7	21	14	5	4	28	0	21
Kess Storm	Update	UBR	1.86	0.60	9	19	16	6	3	29	1	17
Kraum's MANLY Combo	Update	WUBR	1.80	0.63	2	27	17	6	5	31	2	10
Mad Farm	Removed	WBR	1.56	0.46	4	25	19	19	5	16	0	16
Melt Banana	No Change	UBRG	1.64	0.54	0	28	20	8	5	18	0	21
Meta Pod	Update	WBRG	2.19	0.34	4	28	10	30	14	10	0	6
Midrange Yisan	Update	G	2.32	0.24	21	13	15	34	11	5	0	4
Mimeo Reanimator Hulk	No Change	UBG	2.26	0.53	4	26	7	24	6	25	0	10
Momir Hackball	No Change	UG	1.55	0.58	9	20	6	31	5	23	0	6
Najeela Hermit Hulk	No Change	WUBRG	1.69	0.52	0	29	5	25	6	26	0	9
Najeela Tempo	Update	WUBRG	1.59	0.64	0	30	6	17	8	31	1	7
Nooze Reanimator	No Change	UBRG	2.03	0.50	3	27	9	21	9	19	0	13
Opus Consultation	New	WUBR	1.86	0.64	1	29	15	7	5	30	1	12
Opus Thief	Update	WUBR	1.93	0.57	1	29	13	8	7	25	1	16
Paradox Arcum	No Change	U	1.93	0.56	14	15	45	22	3	18	0	4

Table 4: Side by side deck comparison

Deck	Status	Color	CMC	IR	Lands				Spells			
					B.	NB	A	C	E	I	P	S
Paradox Scepter Thrasios	Update	WUBG	1.68	0.68	1	27	13	12	5	32	0	10
Paradox Sisay	No Change	WG	2.13	0.39	5	25	20	34	7	10	0	5
Rad Farm	Update	WUBG	1.59	0.64	2	28	8	17	9	29	0	7
Rashmi Control	No Change	UG	2.07	0.72	15	14	11	10	3	36	0	11
Razakats	Update	WUBG	2.09	0.53	3	27	5	27	7	20	0	11
SBT Grave Combos	No Change	UBG	1.83	0.53	0	28	6	28	7	24	0	8
Sacred Hulk	New	WUBG	1.52	0.63	1	28	5	22	6	30	1	7
Scepter Control	Update	UBG	1.94	0.57	5	26	11	7	9	28	2	12
Scion Reanimator	No Change	WUBRG	2.24	0.53	1	29	6	23	7	21	1	12
Seasons Pastigur	Update	UBG	2.20	0.51	3	27	15	12	9	23	3	8
Selvala Brostorm	Update	G	2.48	0.39	23	8	10	27	7	15	1	13
Shimmer Zur	No Change	WUB	1.80	0.68	9	20	22	5	3	31	0	11
Shuffle Hulk	Update	WUBG	1.79	0.49	0	29	5	27	8	23	0	8
Sidisi Ad Naus Fishbowl	No Change	B	1.43	0.44	21	11	41	10	2	7	0	14
T&T Hulkball	No Change	WBRG	1.84	0.49	3	28	8	29	7	19	0	6
Tazri Hulk	No Change	WUBRG	1.92	0.56	0	28	6	26	6	25	0	10
Teferi Chain Veil	Update	U	2.41	0.51	21	10	17	4	8	25	4	11
Varolz Hulk	No Change	BG	1.73	0.42	8	21	7	26	10	17	0	13
Xantcha Combo-Control	New	BR	2.10	0.34	10	22	17	3	9	10	0	29
Zuran Consultation	Update	WUB	1.89	0.66	3	27	16	4	9	30	1	10

### 3.1 Color Identity and Commanders

A look at top commanders, deck colors and mana symbol distribution<sup>9</sup>.

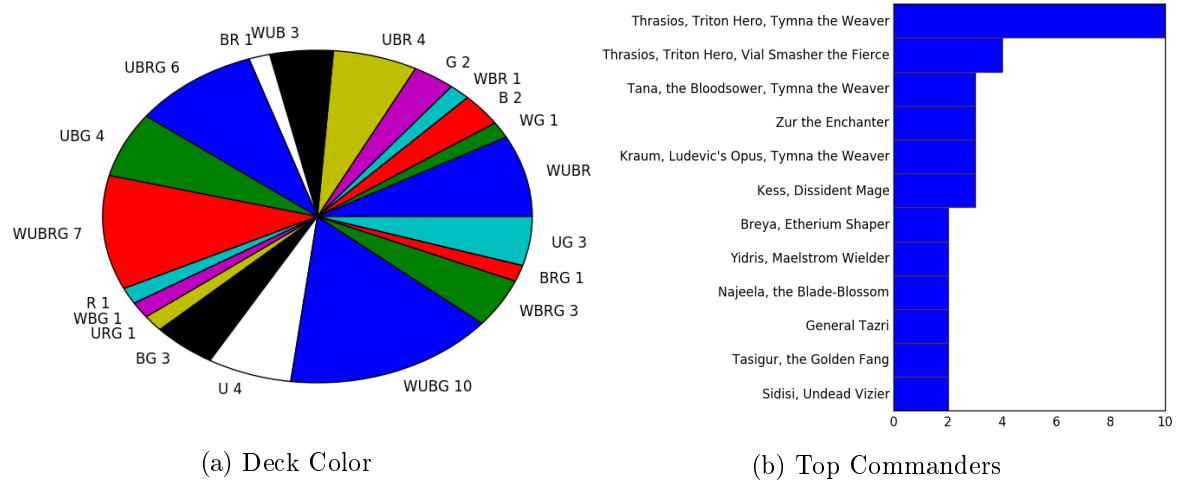


Figure 29: Commanders and Color Identity

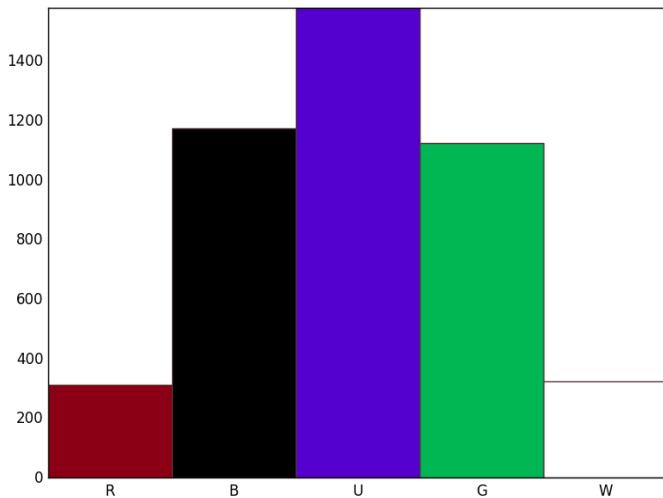


Figure 30: Mana Symbol Distribution

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<sup>9</sup>Note, we still have a bell shaped curve here

## 4 Deck Listings

This section lists each deck with some statistics. Six graphics are provided: the mana color pie, CMC histogram, card type histogram, mana production, mana plurality and land categories. The decklist is also shown.

### 4.1 4c Lightning Druid

Deck Link: <https://deckstats.net/decks/50436/1152876-4c-lightning-druid/>

Discord Url: <https://discord.gg/n8xVUxu>

Author: frozeninfate (<https://deckstats.net/decks/50436/?lng=en>)

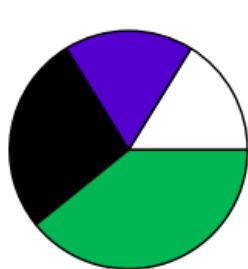
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 12 16.2% U: 13 17.6% B: 20 27.0% G: 29 39.2%)

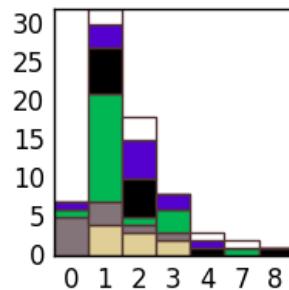
Avg. CMC: 1.77

Interaction Ratio: 0.44

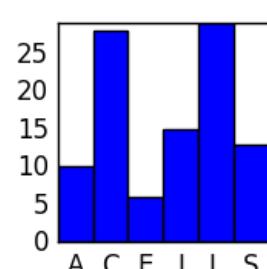
Cumulative CMC: 0: 0.10%, 1: 0.55%, 2: 0.80%, 3: 0.92%, 4: 0.96%, 7: 0.99%, 8: 1.00%



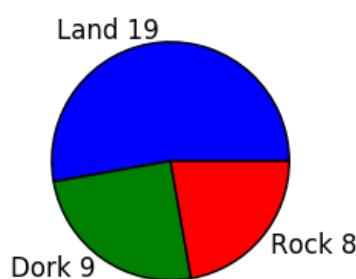
(a) Mana Pie



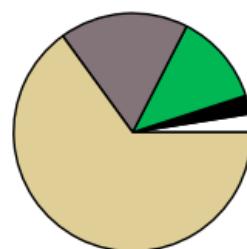
(b) CMC



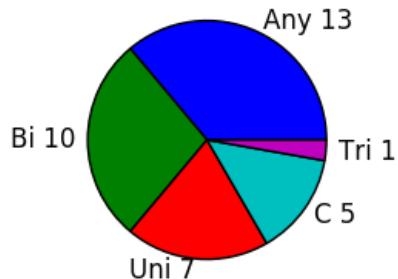
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 31: 4c Lightning Druid

Decklist: 4c Lightning Druid, Cockatrice Hash: 3vnm4va4

<b>Commander (2)</b>	<b>Instant (15)</b>	<b>Artifact (10)</b>
1x Thrasios, Triton Hero	1x Chain of Vapor	1x Aether Spellbomb
1x Tymna the Weaver	1x Daze	1x Chrome Mox
<b>Land (29)</b>	1x Eladamri's Call	1x Lightning Greaves
1x Arid Mesa	1x Enlightened Tutor	1x Lion's Eye Diamond
1x Bayou	1x Entomb	1x Lotus Petal
1x Bloodstained Mire	1x Flash	1x Mana Crypt
1x Breeding Pool	1x Lim-Dûl's Vault	1x Mox Diamond
1x City of Brass	1x Mental Misstep	1x Serum Powder
1x Command Tower	1x Mystical Tutor	1x Shuko
1x Dryad Arbor	1x Noxious Revival	1x Sol Ring
1x Exotic Orchard	1x Pact of Negation	
1x Flooded Strand	1x Shallow Grave	
1x Forbidden Orchard	1x Summoner's Pact	
1x Gemstone Caverns	1x Vampiric Tutor	
1x Gemstone Mine	1x Worldly Tutor	
1x Horizon Canopy		
1x Mana Confluence	<b>Enchantment (6)</b>	
1x Marsh Flats	1x Animate Dead	
1x Misty Rainforest	1x Carpet of Flowers	
1x Overgrown Tomb	1x Concordant Crossroads	
1x Polluted Delta	1x Dance of the Dead	
1x Savannah	1x Utopia Sprawl	
1x Scalding Tarn	1x Wild Growth	
1x Scrubland		
1x Tarnished Citadel	<b>Sorcery (13)</b>	
1x Tropical Island	1x Cabal Therapy	
1x Tundra	1x Demonic Tutor	
1x Underground Sea	1x Diabolic Intent	
1x Verdant Catacombs	1x Dread Return	
1x Watery Grave	1x Eldritch Evolution	
1x Windswept Heath	1x Green Sun's Zenith	
1x Wooded Foothills	1x Imperial Seal	
	1x Life // Death	
	1x Merchant Scroll	
	1x Postmortem Lunge	
	1x Reanimate	
	1x Show and Tell	
	1x Sylvan Tutor	

## 4.2 4c Rashmi

Deck Link: <https://tappedout.net/mtg-decks/4c-rashmi-curious-control/>

Discord Url: <https://discord.gg/5vvVsTu>

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

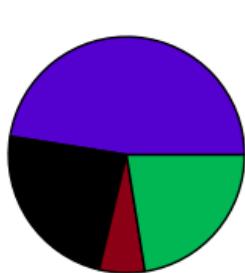
Commander(s): Thrasios, Triton Hero, Vial Smasher the Fierce

Color: UBRG (U: 38 47.5% B: 19 23.8% R: 5 6.2% G: 18 22.5%)

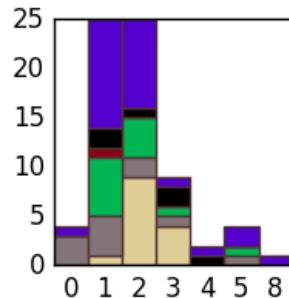
Avg. CMC: 1.97

Interaction Ratio: 0.57

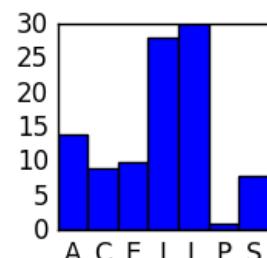
Cumulative CMC: 0: 0.06%, 1: 0.41%, 2: 0.77%, 3: 0.90%, 4: 0.93%, 5: 0.99%, 8: 1.00%



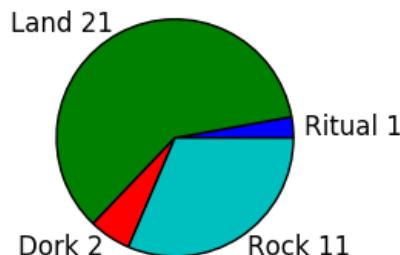
(a) Mana Pie



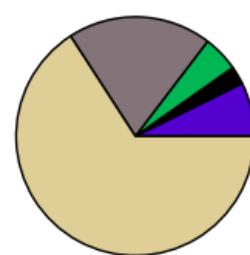
(b) CMC



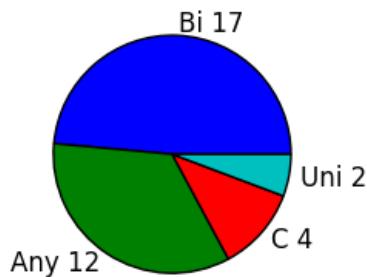
(c) Card Type



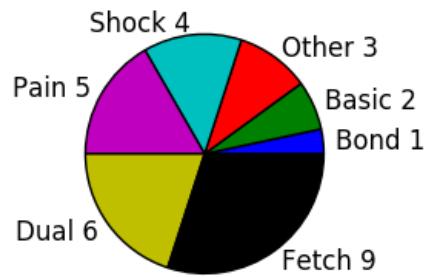
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 32: 4c Rashmi

Decklist: 4c Rashmi, Cockatrice Hash: trsrl796

<b>Commander (2)</b>	<b>Instant (28)</b>	<b>Enchantment (10)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Vial Smasher the Fierce	1x Assassin's Trophy	1x Compost
	1x Brainstorm	1x Copy Artifact
	1x Counterspell	1x Curiosity
<b>Land (30)</b>	1x Cyclonic Rift	1x Exploration
1x Badlands	1x Delay	1x Keen Sense
1x Bayou	1x Dig Through Time	1x Legacy's Allure
1x Bloodstained Mire	1x Dispel	1x Mystic Remora
1x Breeding Pool	1x Dramatic Reversal	1x Rhystic Study
1x City of Brass	1x Fact or Fiction	1x Sylvan Library
1x Command Tower	1x Fire Covenant	
1x Exotic Orchard	1x Flusterstorm	
1x Flooded Strand	1x Force of Will	
1x Forbidden Orchard	1x Kozilek's Return	
1x Forest	1x Lim-Dûl's Vault	
1x Island	1x Mana Drain	
1x Mana Confluence	1x Mental Misstep	
1x Marsh Flats	1x Misdirection	
1x Misty Rainforest	1x Mystical Tutor	
1x Morphic Pool	1x Narset's Reversal	
1x Overgrown Tomb	1x Nature's Claim	
1x Polluted Delta	1x Noxious Revival	
1x Scalding Tarn	1x Pact of Negation	
1x Steam Vents	1x Pyroblast	
1x Taiga	1x Reap	
1x Tarnished Citadel	1x Swan Song	
1x Tropical Island	1x Vampiric Tutor	
1x Underground River	1x Winds of Rebuke	
1x Underground Sea		
1x Verdant Catacombs		
1x Volcanic Island		
1x Watery Grave		
1x Windswept Heath		
1x Wooded Foothills		
1x Yavimaya Coast		
<b>Planeswalker (1)</b>		
1x Ashiok, Dream Render		
		<b>Creature (7)</b>
		1x Azra Oddsmaker
		1x Birds of Paradise
		1x Bloom Tender
		1x Deathrite Shaman
		1x Runic Armasaur
		1x Seedborn Muse
		1x Sygg, River Cutthroat

### 4.3 5c Lightning Druid

Deck Link: <https://deckstats.net/decks/50436/1145708-extremespeed-lightning-druid-e>

Discord Url: <https://discord.gg/n8xVUxu>

Author: frozeninfate (<https://deckstats.net/decks/50436/?lng=en>)

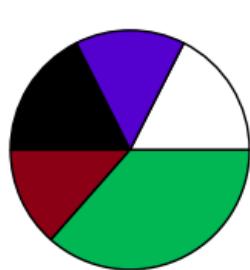
Commander(s): Sliver Queen

Color: WUBRG (W: 13 17.6% U: 11 14.9% B: 13 17.6% R: 10 13.5% G: 27 36.5%)

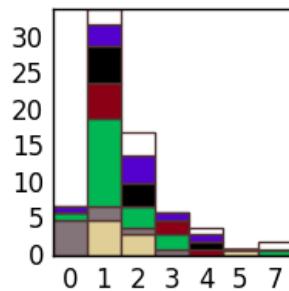
Avg. CMC: 1.70

Interaction Ratio: 0.44

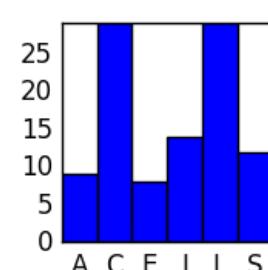
Cumulative CMC: 0: 0.10%, 1: 0.58%, 2: 0.82%, 3: 0.90%, 4: 0.96%, 5: 0.97%, 7: 1.00%



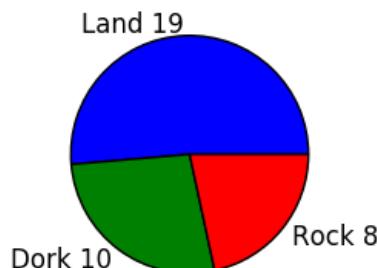
(a) Mana Pie



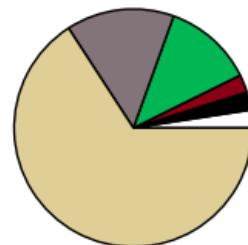
(b) CMC



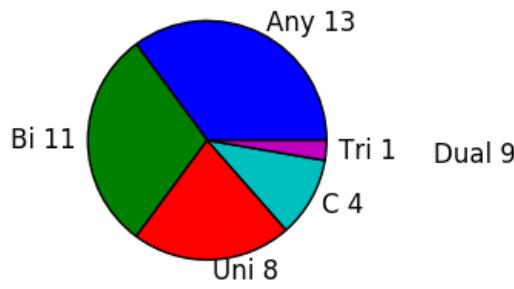
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 33: 5c Lightning Druid

Decklist: 5c Lightning Druid, Cockatrice Hash: p17lasl

<b>Commander (1)</b>	<b>Instant (14)</b>	<b>Artifact (9)</b>
1x Sliver Queen	1x Chain of Vapor 1x Eladamri's Call	1x Chrome Mox 1x Lightning Greaves 1x Lion's Eye Diamond
<b>Land (29)</b>	1x Enlightened Tutor 1x Entomb 1x Flash 1x Lim-Dûl's Vault 1x Mental Misstep 1x Mystical Tutor 1x Noxious Revival 1x Pact of Negation 1x Shallow Grave 1x Summoner's Pact 1x Vampiric Tutor 1x Worldly Tutor	1x Lotus Petal 1x Mana Crypt 1x Mox Diamond 1x Serum Powder 1x Shuko 1x Sol Ring
1x Arid Mesa 1x Badlands 1x Bayou 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Dryad Arbor 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Gemstone Mine 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Scrubland 1x Stomping Ground 1x Taiga 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Windswept Heath 1x Wooded Foothills	<b>Enchantment (8)</b> 1x Carpet of Flowers 1x Concordant Crossroads 1x Mass Hysteria 1x Need for Speed 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	<b>Creature (27)</b> 1x Angel of Glory's Rise 1x Anger 1x Arbor Elf 1x Auriok Salvagers 1x Avacyn's Pilgrim 1x Birds of Paradise 1x Cephalid Illusionist 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Elvish Spirit Guide 1x Fatestitcher 1x Fyndhorn Elves 1x Grand Abolisher 1x Hermit Druid 1x Llanowar Elves 1x Magus of the Moon 1x Narcomoeba 1x Noble Hierarch 1x Nomads en-Kor 1x Orcish Lumberjack 1x Protean Hulk 1x Shaman en-Kor 1x Simian Spirit Guide 1x Spellseeker 1x Torch Courier 1x Warrior en-Kor
	<b>Sorcery (12)</b> 1x Altar of Bone 1x Cabal Therapy 1x Demonic Tutor 1x Diabolic Intent 1x Dread Return 1x Eldritch Evolution 1x Gamble 1x Green Sun's Zenith 1x Imperial Seal 1x Maximize Velocity 1x Merchant Scroll 1x Postmortem Lunge	

#### 4.4 BUGR Paradox Scepter

Deck Link: <http://tappedout.net/mtg-decks/thrasios-eggs-prototype-copy/>

Discord Url: <https://discord.gg/YGsZTu>

Author: Lilbrudder (<https://tappedout.net/users/Lilbrudder>)

Commander(s): Thrasios, Triton Hero, Vial Smasher the Fierce

Color: UBRG (U: 27 38.0% B: 23 32.4% R: 8 11.3% G: 13 18.3%)

Avg. CMC: 1.72

Interaction Ratio: 0.61

Cumulative CMC: 0: 0.08%, 1: 0.51%, 2: 0.81%, 3: 0.93%, 4: 0.94%, 5: 1.00%

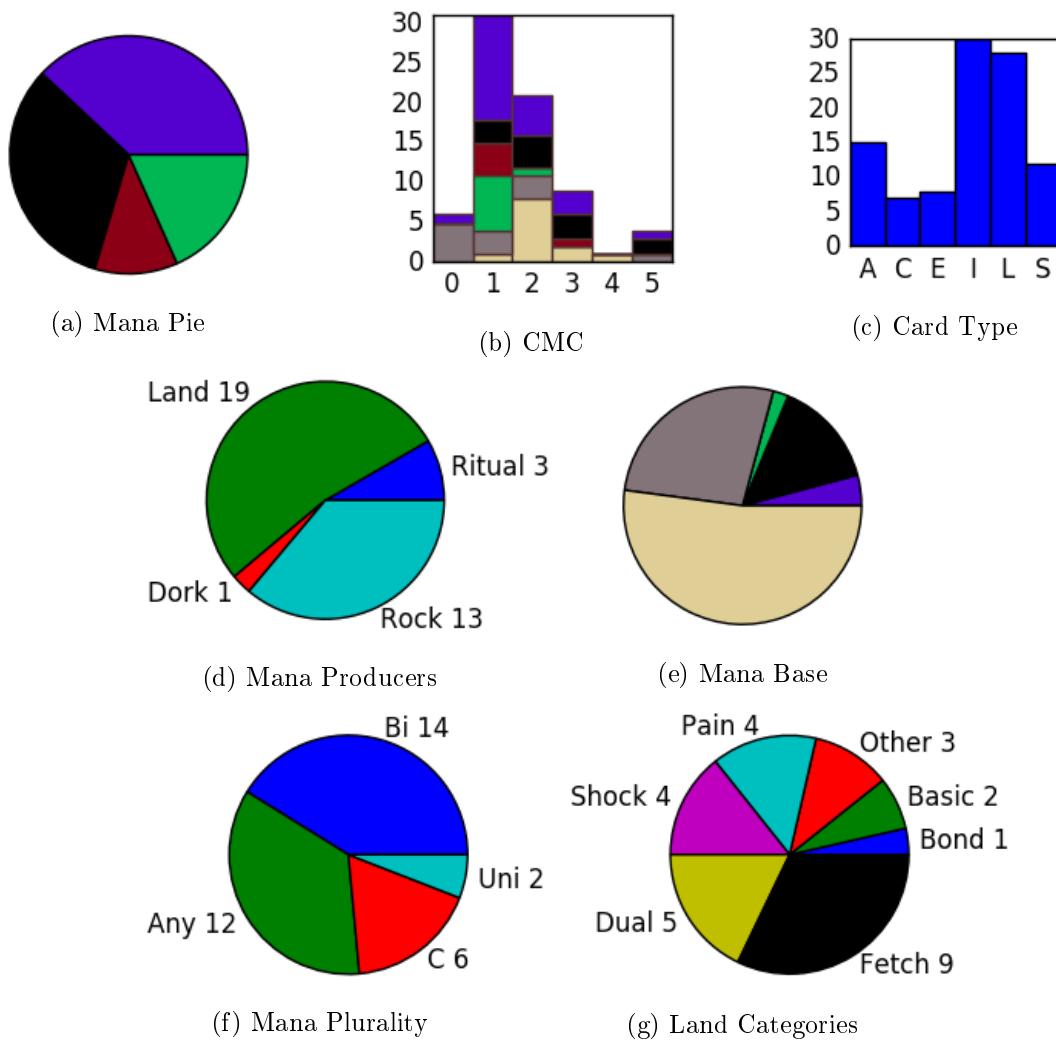


Figure 34: BUGR Paradox Scepter

Decklist: BUGR Paradox Scepter, Cockatrice Hash: att7ij9v

<b>Commander (2)</b>	<b>Instant (30)</b>	<b>Enchantment (8)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Vial Smasher the Fierce	1x Ad Nauseam	1x Copy Artifact
<b>Land (28)</b>	1x Assassin's Trophy	1x Curiosity
1x Ancient Tomb	1x Brainstorm	1x Keen Sense
1x Badlands	1x Cabal Ritual	1x Mystic Remora
1x Bayou	1x Chain of Vapor	1x Necropotence
1x Bloodstained Mire	1x Cyclonic Rift	1x Rhystic Study
1x Breeding Pool	1x Dark Ritual	1x Sylvan Library
1x City of Brass	1x Dispel	
1x Command Tower	1x Dramatic Reversal	<b>Sorcery (12)</b>
1x Exotic Orchard	1x Fire Covenant	1x Dark Petition
1x Flooded Strand	1x Flusterstorm	1x Demonic Tutor
1x Forbidden Orchard	1x Force of Will	1x Gamble
1x Forest	1x Impulse	1x Gitaxian Probe
1x Island	1x Intuition	1x Imperial Seal
1x Mana Confluence	1x Lim-Dûl's Vault	1x Ponder
1x Marsh Flats	1x Mana Drain	1x Preordain
1x Misty Rainforest	1x Manamorphose	1x Rolling Earthquake
1x Morphic Pool	1x Mental Misstep	1x Timetwister
1x Overgrown Tomb	1x Mystical Tutor	1x Toxic Deluge
1x Polluted Delta	1x Natural State	1x Wheel of Fortune
1x Scalding Tarn	1x Nature's Claim	1x Yawgmoth's Will
1x Steam Vents	1x Noxious Revival	
1x Tropical Island	1x Opt	<b>Artifact (15)</b>
1x Underground River	1x Pact of Negation	1x Chrome Mox
1x Underground Sea	1x Pyroblast	1x Dimir Signet
1x Verdant Catacombs	1x Red Elemental Blast	1x Fellwar Stone
1x Volcanic Island	1x Swan Song	1x Grim Monolith
1x Watery Grave	1x Tainted Pact	1x Isochron Scepter
1x Windswept Heath	1x Vampiric Tutor	1x Lotus Petal
1x Wooded Foothills		1x Mana Crypt
		1x Mana Vault
		1x Mox Diamond
		1x Mox Opal
		1x Paradox Engine
		1x Sensei's Divining Top
		1x Sol Ring
		1x Talisman of Dominance
		1x Talisman of Indulgence
		<b>Creature (5)</b>
		1x Arbor Elf
		1x Birds of Paradise
		1x Dark Confidant
		1x Deathrite Shaman
		1x Notion Thief

## 4.5 Bad Farm

Deck Link: <http://tappedout.net/mtg-decks/bad-farm/>

Discord Url: N/A

Author: Leptys (<https://tappedout.net/users/Leptys>)

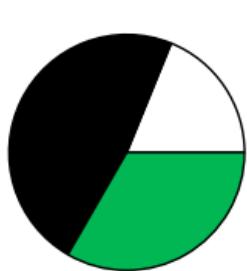
Commander(s): Ikra Shidiqi, the Usurper, Tymna the Weaver

Color: WBG (W: 13 18.8% B: 33 47.8% G: 23 33.3%)

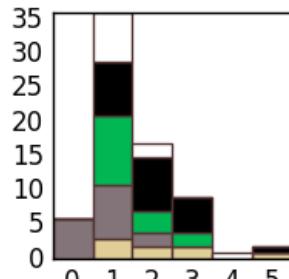
Avg. CMC: 1.56

Interaction Ratio: 0.46

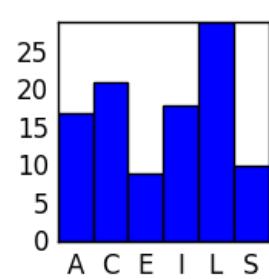
Cumulative CMC: 0: 0.08%, 1: 0.59%, 2: 0.83%, 3: 0.96%, 4: 0.97%, 5: 1.00%



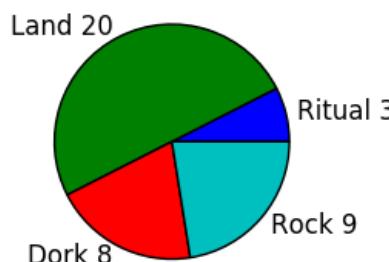
(a) Mana Pie



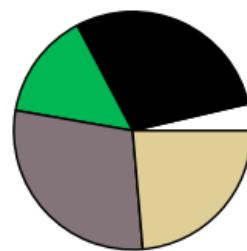
(b) CMC



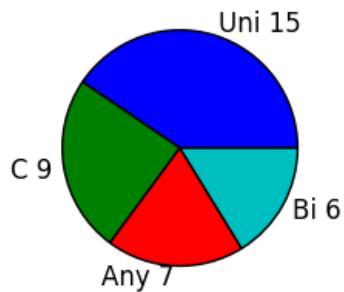
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 35: Bad Farm

Decklist: Bad Farm, Cockatrice Hash: 52trbbmm

<b>Commander (2)</b>	<b>Instant (18)</b>	<b>Sorcery (10)</b>
1x Ikra Shidiqi, the Usurper	1x Abrupt Decay	1x Cabal Therapy
1x Tymna the Weaver	1x Ad Nauseam	1x Demonic Tutor
<b>Land (29)</b>	<b>Instant (18)</b>	<b>Sorcery (10)</b>
1x Ancient Tomb	1x Angel's Grace	1x Diabolic Intent
1x Arid Mesa	1x Assassin's Trophy	1x Grim Tutor
1x Bayou	1x Cabal Ritual	1x Imperial Seal
1x Bloodstained Mire	1x Crop Rotation	1x Praetor's Grasp
1x Boseiju, Who Shelters All	1x Culling the Weak	1x Regrowth
1x Cavern of Souls	1x Dark Ritual	1x Sickening Dreams
1x Command Tower	1x Enlightened Tutor	1x Thoughtseize
1x Flooded Strand	1x Entomb	1x Yawgmoth's Will
1x Forest	1x Mana Tithe	
1x Gaea's Cradle	1x Nature's Claim	
1x Gemstone Caverns	1x Noxious Revival	
1x Godless Shrine	1x Rain of Filth	
1x Marsh Flats	1x Silence	
1x Misty Rainforest	1x Swords to Plowshares	
1x Overgrown Tomb	1x Tainted Pact	
1x Phyrexian Tower	1x Vampiric Tutor	
1x Polluted Delta		
1x Savannah		
1x Scavenger Grounds	<b>Enchantment (9)</b>	
1x Scrubland	1x Animate Dead	
1x Snow-Covered Forest	1x Carpet of Flowers	
1x Snow-Covered Plains	1x Earthcraft	
1x Snow-Covered Swamp	1x Exploration	
1x Temple Garden	1x Necromancy	
1x Urborg, Tomb of Yawgmoth	1x Necropotence	
1x Vault of Whispers	1x Pernicious Deed	
1x Verdant Catacombs	1x Smothering Tithe	
1x Windswept Heath	1x Squirrel Nest	
1x Wooded Foothills		
<b>Artifact (13)</b>		
	1x Altar of the Brood	
	1x Chrome Mox	
	1x Grim Monolith	
	1x Lotus Petal	
	1x Mana Crypt	
	1x Mana Vault	
	1x Mox Diamond	
	1x Mox Opal	
	1x Nihil Spellbomb	
	1x Scroll Rack	
	1x Sensei's Divining Top	
	1x Skullclamp	
	1x Sol Ring	
<b>Creature (19)</b>		
	1x Arbor Elf	
	1x Avacyn's Pilgrim	
	1x Children of Korlis	
	1x Dark Confidant	
	1x Deathrite Shaman	
	1x Elves of Deep Shadow	
	1x Elvish Mystic	
	1x Elvish Spirit Guide	
	1x Fyndhorn Elves	
	1x Grand Abolisher	
	1x Hope of Ghirapur	
	1x Krosan Wayfarer	
	1x Leonin Relic-Warder	
	1x Llanowar Elves	
	1x Memnite	
	1x Myr Moonvessel	
	1x Priest of Titania	
	1x Serra Ascendant	
	1x Zulaport Cutthroat	

## 4.6 Baral Control

Deck Link: <https://tappedout.net/mtg-decks/baral-draw-go-2/>

Discord Url: <https://discord.gg/UQbRkH>

Author: asm (<https://tappedout.net/users/asm>)

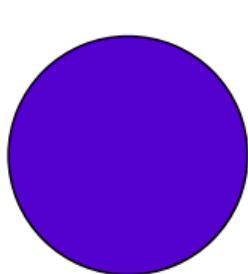
Commander(s): Baral, Chief of Compliance

Color: U (U: 62 100.0%)

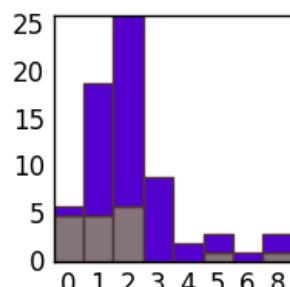
Avg. CMC: 2.19

Interaction Ratio: 0.64

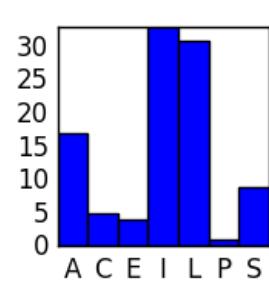
Cumulative CMC: 0: 0.09%, 1: 0.36%, 2: 0.74%, 3: 0.87%, 4: 0.90%, 5: 0.94%, 6: 0.96%, 8: 1.00%



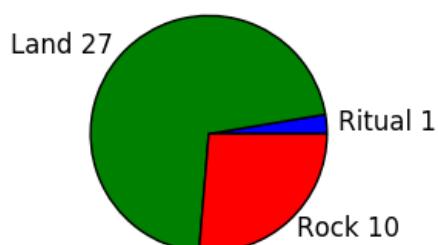
(a) Mana Pie



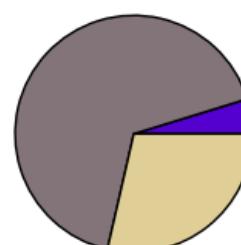
(b) CMC



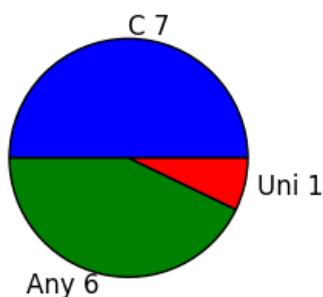
(c) Card Type



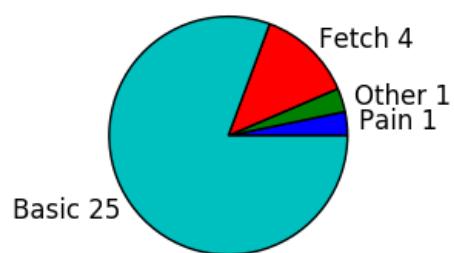
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 36: Baral Control

Decklist: Baral Control, Cockatrice Hash: k90d2rl3

<b>Commander (1)</b>	<b>Instant (33)</b>	<b>Artifact (17)</b>
1x Baral, Chief of Compliance	1x Anticipate 1x Blue Sun's Zenith 1x Brainstorm 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Dig Through Time 1x Dispel 1x Dramatic Reversal 1x Fact or Fiction 1x Flusterstorm 1x Force of Will 1x Impulse 1x Mana Drain 1x Mana Leak 1x Mental Misstep 1x Muddle the Mixture 1x Mystic Confluence 1x Mystical Tutor 1x Negate 1x Obsessive Search 1x Opt 1x Pact of Negation 1x Pull from Tomorrow 1x Reality Shift 1x Remand 1x Spell Pierce 1x Stroke of Genius 1x Swan Song 1x Thirst for Knowledge 1x Unwind 1x Whir of Invention	1x Chrome Mox 1x Cursed Totem 1x Fellwar Stone 1x Grafdigger's Cage 1x Grim Monolith 1x Isochron Scepter 1x Mana Crypt 1x Mana Vault 1x Mox Amber 1x Mox Diamond 1x Mox Opal 1x Paradox Engine 1x Prismatic Lens 1x Sapphire Medallion 1x Sensei's Divining Top 1x Sol Ring 1x Voltaic Key
<b>Land (31)</b>		
1x Ancient Tomb 1x Flooded Strand 1x Inventors' Fair 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 25x Snow-Covered Island		
<b>Enchantment (4)</b>		
1x Back to Basics 1x Copy Artifact 1x Mystic Remora 1x Rhystic Study		
<b>Sorcery (9)</b>		
1x Chart a Course 1x Deep Analysis 1x Fabricate 1x Merchant Scroll 1x Ponder 1x Preordain 1x Sleight of Hand 1x Timetwister 1x Treasure Cruise		
<b>Planeswalker (1)</b>		
1x Ugin, the Spirit Dragon		
<b>Creature (4)</b>		
1x Consecrated Sphinx 1x Gilded Drake 1x Snapcaster Mage 1x Thing in the Ice		

## 4.7 Blood Pod

Deck Link: <http://tappedout.net/mtg-decks/tana-and-tymna-blood-pod-primer/>

Discord Url: <https://discord.gg/q7Ehbgd>

Author: LabManiac\_Luke ([https://tappedout.net/users/LabManiac\\_Luke](https://tappedout.net/users/LabManiac_Luke))

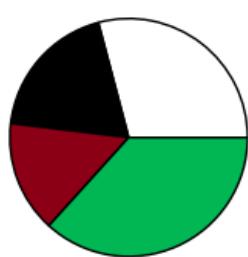
Commander(s): Tana, the Bloodsower, Tymna the Weaver

Color: WBRG (W: 23 29.1% B: 15 19.0% R: 12 15.2% G: 29 36.7%)

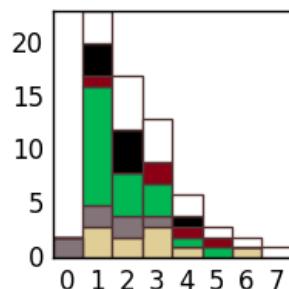
Avg. CMC: 2.30

Interaction Ratio: 0.30

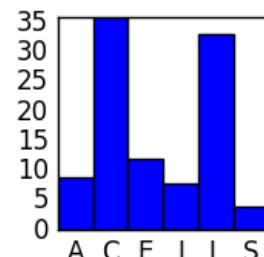
Cumulative CMC: 0: 0.03%, 1: 0.37%, 2: 0.63%, 3: 0.82%, 4: 0.91%, 5: 0.96%, 6: 0.99%, 7: 1.00%



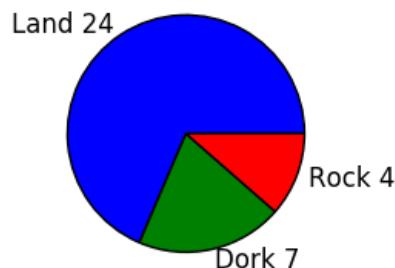
(a) Mana Pie



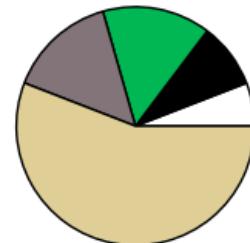
(b) CMC



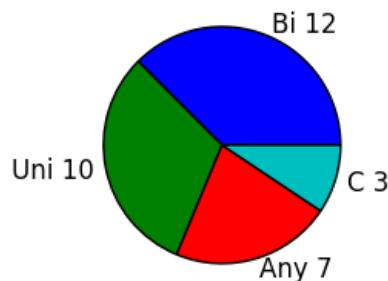
(c) Card Type



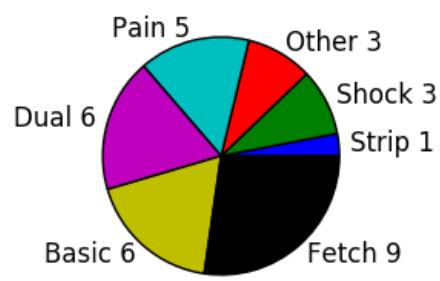
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 37: Blood Pod

Decklist: Blood Pod, Cockatrice Hash: hclggung

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<b>Commander (2)</b>	<b>Instant (8)</b>	<b>Creature (34)</b>
1x Tana, the Bloodsower	1x Abrupt Decay	1x Anafenza, the Foremost
1x Tymna the Weaver	1x Enlightened Tutor	1x Arbor Elf
	1x Fire Covenant	1x Avacyn's Pilgrim
	1x Nature's Claim	1x Aven Mindcensor
	1x Pyroblast	1x Birds of Paradise
	1x Swords to Plowshares	1x Bloom Tender
	1x Vampiric Tutor	1x Caustic Caterpillar
	1x Worldly Tutor	1x Dark Confidant
		1x Deathrite Shaman
		1x Eidolon of Rhetoric
		1x Elesh Norn, Grand Cenobite
		1x Elves of Deep Shadow
		1x Elvish Mystic
		1x Eternal Witness
		1x Ethersworn Canonist
		1x Felidar Guardian
		1x Fyndhorn Elves
		1x Karmic Guide
		1x Kataki, War's Wage
		1x Kiki-Jiki, Mirror Breaker
		1x Linvala, Keeper of Silence
		1x Llanowar Elves
		1x Magus of the Moon
		1x Reclamation Sage
		1x Scavenging Ooze
		1x Serra Ascendant
		1x Sire of Insanity
		1x Sun Titan
		1x Tendershoot Dryad
		1x Thalia, Guardian of Thraben
		1x Ulvenwald Tracker
		1x Vexing Shusher
		1x Village Bell-Ringer
		1x Yisan, the Wanderer Bard
<b>Land (33)</b>	<b>Enchantment (11)</b>	
1x Arid Mesa	1x Animate Dead	
1x Badlands	1x Blood Moon	
1x Bayou	1x Carpet of Flowers	
1x Bloodstained Mire	1x Leyline of the Void	
1x Brushland	1x Luminarch Ascension	
1x City of Brass	1x Root Maze	
1x Command Tower	1x Rule of Law	
1x Flooded Strand	1x Stony Silence	
4x Forest	1x Stranglehold	
1x Gaea's Cradle	1x Survival of the Fittest	
1x Horizon Canopy	1x Sylvan Library	
1x Llanowar Wastes		
1x Mana Confluence		
1x Marsh Flats		
1x Misty Rainforest		
1x Overgrown Tomb		
1x Plains		
1x Plateau		
1x Polluted Delta		
1x Savannah		
1x Scrubland		
1x Stomping Ground		
1x Strip Mine		
1x Swamp		
1x Taiga		
1x Temple Garden		
1x Urborg, Tomb of Yawgmoth		
1x Verdant Catacombs		
1x Windswept Heath		
1x Wooded Foothills		
<b>Sorcery (4)</b>		
<b>Artifact (8)</b>		

## 4.8 Breakfast Hulk

Deck Link: <http://tappedout.net/mtg-decks/breakfast-hulk/>

Discord Url: <https://discord.gg/n8xVUxu>

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

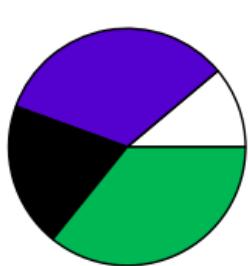
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 9 11.1% U: 27 33.3% B: 16 19.8% G: 29 35.8%)

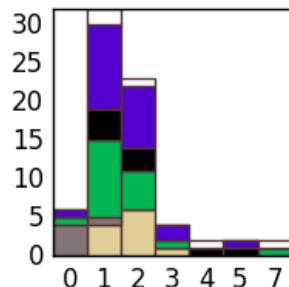
Avg. CMC: 1.72

Interaction Ratio: 0.55

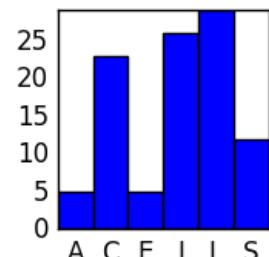
Cumulative CMC: 0: 0.08%, 1: 0.54%, 2: 0.86%, 3: 0.92%, 4: 0.94%, 5: 0.97%, 7: 1.00%



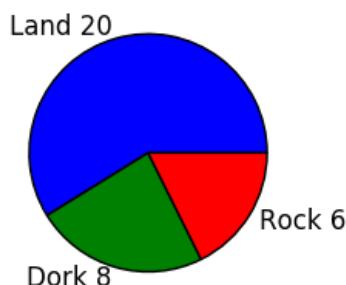
(a) Mana Pie



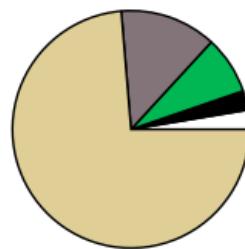
(b) CMC



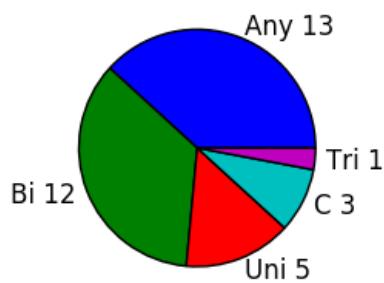
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 38: Breakfast Hulk

Decklist: Breakfast Hulk, Cockatrice Hash: h6o4oe0f0

<b>Commander (2)</b>	<b>Instant (26)</b>	<b>Sorcery (12)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Cabal Therapy
1x Tymna the Weaver	1x Ad Nauseam	1x Demonic Tutor
	1x Assassin's Trophy	1x Diabolic Intent
<b>Land (29)</b>	1x Autumn's Veil	1x Dread Return
1x Bayou	1x Brainstorm	1x Finale of Devastation
1x Bloodstained Mire	1x Chain of Vapor	1x Gitaxian Probe
1x Botanical Sanctum	1x Cyclonic Rift	1x Imperial Seal
1x Breeding Pool	1x Delay	1x Neoform
1x City of Brass	1x Dispel	1x Ponder
1x Command Tower	1x Eladamri's Call	1x Postmortem Lunge
1x Exotic Orchard	1x Flash	1x Preordain
1x Flooded Strand	1x Flusterstorm	1x Timetwister
1x Forbidden Orchard	1x Force of Will	
1x Gemstone Caverns	1x Lim-Dûl's Vault	<b>Artifact (5)</b>
1x Gemstone Mine	1x Memory's Journey	1x Chrome Mox
1x Mana Confluence	1x Mental Misstep	1x Lion's Eye Diamond
1x Marsh Flats	1x Mystical Tutor	1x Mana Crypt
1x Misty Rainforest	1x Narset's Reversal	1x Mox Diamond
1x Morphic Pool	1x Nature's Claim	1x Sol Ring
1x Overgrown Tomb	1x Noxious Revival	
1x Polluted Delta	1x Pact of Negation	<b>Creature (21)</b>
1x Savannah	1x Silence	1x Angel of Glory's Rise
1x Scalding Tarn	1x Summoner's Pact	1x Auriok Salvagers
1x Scrubland	1x Swan Song	1x Avacyn's Pilgrim
1x Tarnished Citadel	1x Vampiric Tutor	1x Birds of Paradise
1x Tropical Island	1x Worldly Tutor	1x Bloom Tender
1x Tundra		1x Cephalid Illusionist
1x Underground Sea	<b>Enchantment (5)</b>	1x Dark Confidant
1x Verdant Catacombs	1x Carpet of Flowers	1x Deathrite Shaman
1x Watery Grave	1x Mystic Remora	1x Elves of Deep Shadow
1x Windswept Heath	1x Survival of the Fittest	1x Elvish Mystic
1x Wooded Foothills	1x Sylvan Library	1x Eternal Witness
1x Yavimaya Coast	1x Wild Growth	1x Fyndhorn Elves

## 4.9 Breya Consultation

Deck Link: <http://tappedout.net/mtg-decks/shaper-taint/>

Discord Url: N/A

Author: Nakhla (<https://tappedout.net/users/Nakhla>)

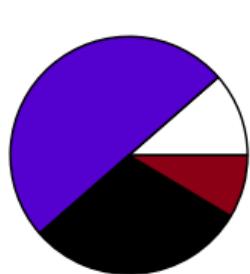
Commander(s): Breya, Etherium Shaper

Color: WUBR (W: 8 11.4% U: 35 50.0% B: 21 30.0% R: 6 8.6%)

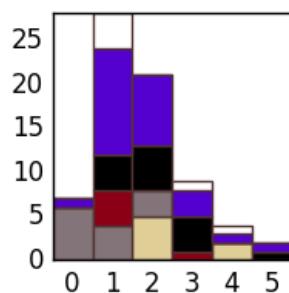
Avg. CMC: 1.73

Interaction Ratio: 0.68

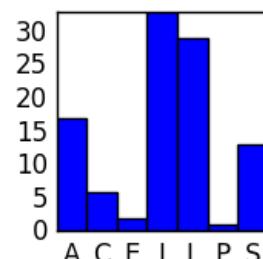
Cumulative CMC: 0: 0.10%, 1: 0.49%, 2: 0.79%, 3: 0.92%, 4: 0.97%, 5: 1.00%



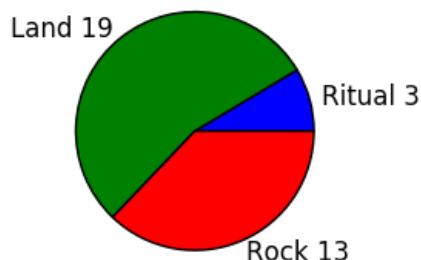
(a) Mana Pie



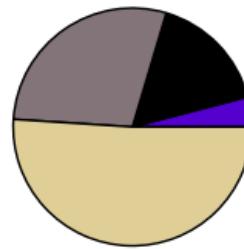
(b) CMC



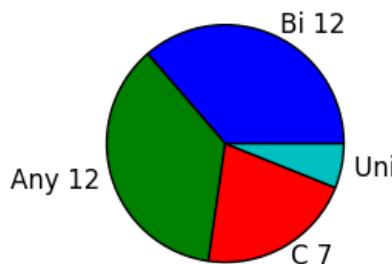
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 39: Breya Consultation

Decklist: Breya Consultation, Cockatrice Hash: 9o35bbk0

<b>Commander (1)</b>	<b>Instant (33)</b>	<b>Sorcery (13)</b>
1x Breya, Etherium Shaper	1x Ad Nauseam 1x Angel's Grace 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dovin's Veto 1x Dramatic Reversal 1x Enlightened Tutor 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Narset's Reversal 1x Negate 1x Pact of Negation 1x Plunge into Darkness 1x Pyroblast 1x Red Elemental Blast 1x Silence 1x Spell Pierce 1x Swan Song 1x Swords to Plowshares 1x Tainted Pact 1x Vampiric Tutor	1x Demonic Tutor 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Praetor's Grasp 1x Preordain 1x Rolling Earthquake 1x Timetwister 1x Toxic Deluge 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (29)</b>		<b>Artifact (16)</b>
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Hallowed Fountain 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Polluted Delta 1x Scalding Tarn 1x Scrubland 1x Snow-Covered Island 1x Snow-Covered Swamp 1x Steam Vents 1x Tarnished Citadel 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills	1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Grafdigger's Cage 1x Grim Monolith 1x Isochron Scepter 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Progress	
<b>Enchantment (2)</b>		<b>Creature (5)</b>
1x Mystic Remora 1x Necropotence		1x Auriok Salvagers 1x Aven Mindcensor 1x Dark Confidant 1x Jace, Vryn's Prodigy 1x Notion Thief
<b>Planeswalker (1)</b>		
1x Jace, Wielder of Mysteries		

#### 4.10 Buried Alive Razaketh Sidisi

Deck Link: <https://tappedout.net/mtg-decks/buried-alive-sidisi/>

Discord Url: <https://discord.gg/abTZ8rT>

Author: marsthesoos (<https://tappedout.net/users/marsthesoos>)

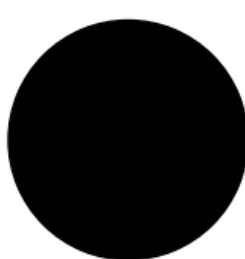
Commander(s): Sidisi, Undead Vizier

Color: B (B: 45 100.0%)

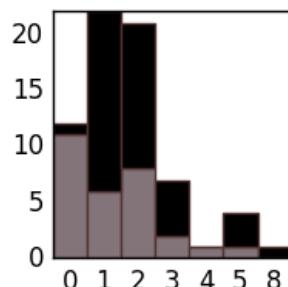
Avg. CMC: 1.72

Interaction Ratio: 0.44

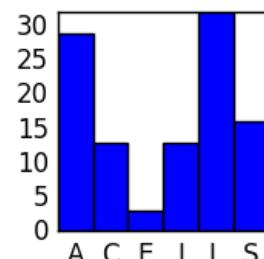
Cumulative CMC: 0: 0.18%, 1: 0.50%, 2: 0.81%, 3: 0.91%, 4: 0.93%, 5: 0.99%, 8: 1.00%



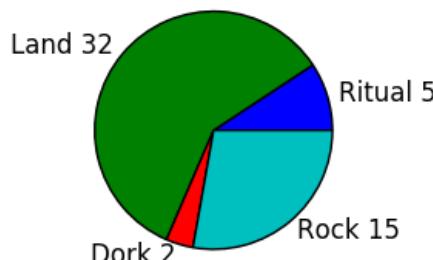
(a) Mana Pie



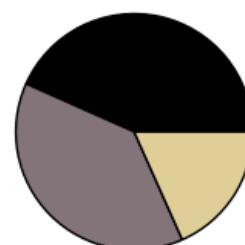
(b) CMC



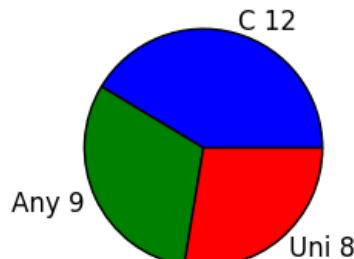
(c) Card Type



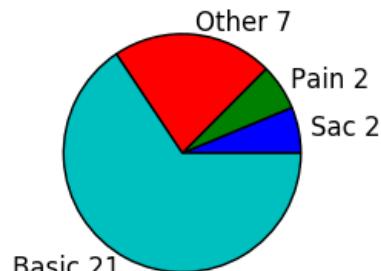
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 40: Buried Alive Razaketh Sidisi

Decklist: Buried Alive Razaketh Sidisi, Cockatrice Hash: q6cef9dj

<b>Commander (1)</b>	<b>Sorcery (16)</b>	<b>Artifact (23)</b>
1x Sidisi, Undead Vizier	1x Bubbling Muck 1x Buried Alive 1x Cabal Therapy 1x Collective Brutality 1x Deathmark 1x Demonic Tutor 1x Diabolic Intent 1x Duress 1x Exhume 1x Exsanguinate 1x Imperial Seal 1x Inquisition of Kozilek 1x Reanimate 1x Thoughtseize 1x Toxic Deluge 1x Yawgmoth's Will	1x Aetherflux Reservoir 1x Basalt Monolith 1x Chrome Mox 1x Defense Grid 1x Everflowing Chalice 1x Fellwar Stone 1x Grim Monolith 1x Helm of Awakening 1x Jet Medallion 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mind Stone 1x Mox Diamond 1x Mox Opal 1x Paradox Engine 1x Prismatic Lens 1x Rings of Brightearth 1x Sensei's Divining Top 1x Sol Ring 1x Springleaf Drum 1x Voltaic Key
<b>Land (32)</b>	<b>Creature (12)</b>	
1x Ancient Tomb 1x Boseiju, Who Shelters All 1x Cavern of Souls 1x City of Traitors 1x Crystal Vein 1x Ebon Stronghold 1x Gemstone Caverns 1x Lake of the Dead 1x Peat Bog 1x Phyrexian Tower 21x Swamp 1x Urborg, Tomb of Yawgmoth	1x Apprentice Necromancer 1x Blood Pet 1x Bloodghast 1x Hope of Ghirapur 1x Leaden Myr 1x Memnite 1x Ornithopter 1x Phyrexian Delver 1x Phyrexian Walker 1x Razaketh, the Foulblooded 1x Reassembling Skeleton 1x Shield Sphere	
<b>Instant (13)</b>		
1x Ad Nauseam 1x Cabal Ritual 1x Corpse Dance 1x Culling the Weak 1x Dark Ritual 1x Entomb 1x Goryo's Vengeance 1x Rain of Filth 1x Sacrifice 1x Shallow Grave 1x Slaughter Pact 1x Songs of the Damned 1x Vampiric Tutor		
<b>Enchantment (3)</b>		
1x Animate Dead 1x Dance of the Dead 1x Necromancy		

## 4.11 Divergent Control

Deck Link: <https://tappedout.net/mtg-decks/bugr-divergent-control/>

Discord Url: N/A

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

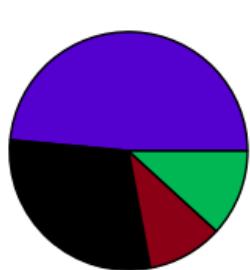
Commander(s): Thrasios, Triton Hero, Vial Smasher the Fierce

Color: UBRG (U: 33 48.5% B: 20 29.4% R: 7 10.3% G: 8 11.8%)

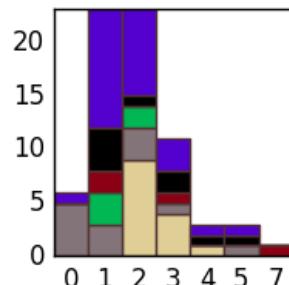
Avg. CMC: 1.94

Interaction Ratio: 0.61

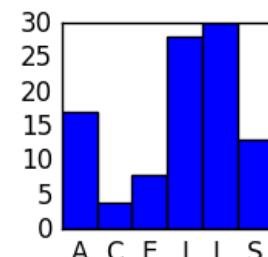
Cumulative CMC: 0: 0.09%, 1: 0.41%, 2: 0.74%, 3: 0.90%, 4: 0.94%, 5: 0.99%, 7: 1.00%



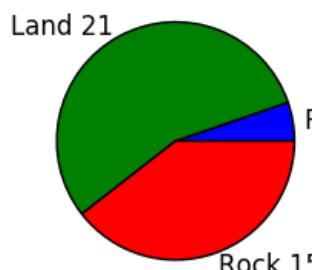
(a) Mana Pie



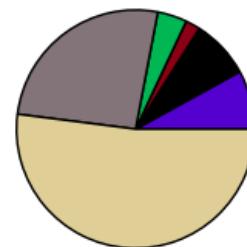
(b) CMC



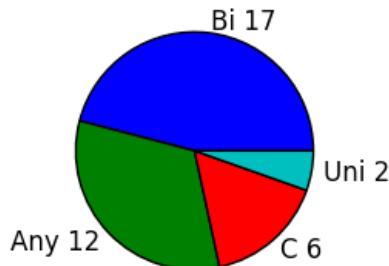
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 41: Divergent Control

Decklist: Divergent Control, Cockatrice Hash: 0kg20lnq

<b>Commander (2)</b>	<b>Instant (28)</b>	<b>Enchantment (8)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Vial Smasher the Fierce	1x Ad Nauseam	1x Compost
	1x Assassin's Trophy	1x Copy Artifact
	1x Brainstorm	1x Mystic Remora
<b>Land (30)</b>	1x Chain of Vapor	1x Necropotence
1x Ancient Tomb	1x Counterspell	1x Rhystic Study
1x Badlands	1x Cyclonic Rift	1x Sylvan Library
1x Bayou	1x Dark Ritual	1x Training Grounds
1x Bloodstained Mire	1x Delay	
1x Breeding Pool	1x Dispel	<b>Sorcery (13)</b>
1x City of Brass	1x Divergent Transformations	1x Demonic Tutor
1x Command Tower	1x Dramatic Reversal	1x Gamble
1x Exotic Orchard	1x Fact or Fiction	1x Imperial Seal
1x Flooded Strand	1x Fire Covenant	1x Massacre
1x Forbidden Orchard	1x Flusterstorm	1x Mnemonic Betrayal
1x Forest	1x Force of Will	1x Ponder
1x Island	1x Kozilek's Return	1x Preordain
1x Mana Confluence	1x Lim-Dûl's Vault	1x Reanimate
1x Marsh Flats	1x Mana Drain	1x Timetwister
1x Misty Rainforest	1x Mental Misstep	1x Toxic Deluge
1x Morphic Pool	1x Mystical Tutor	1x Transmute Artifact
1x Overgrown Tomb	1x Nature's Claim	1x Wheel of Fortune
1x Polluted Delta	1x Negate	1x Windfall
1x Scalding Tarn	1x Noxious Revival	
1x Steam Vents	1x Pact of Negation	<b>Artifact (17)</b>
1x Tarnished Citadel	1x Pyroblast	1x Chrome Mox
1x Tropical Island	1x Swan Song	1x Dimir Signet
1x Underground River	1x Vampiric Tutor	1x Fellwar Stone
1x Underground Sea		1x Grim Monolith
1x Verdant Catacombs		1x Isochron Scepter
1x Volcanic Island		1x Izzet Signet
1x Watery Grave		1x Mana Crypt
1x Windswept Heath		1x Mana Vault
1x Wooded Foothills		1x Mox Amber
1x Yavimaya Coast		1x Mox Diamond
		1x Mox Opal
<b>Creature (2)</b>		1x Paradox Engine
1x Notion Thief		1x Sensei's Divining Top
1x Whirlpool Warrior		1x Simic Signet
		1x Sol Ring
		1x Talisman of Dominance
		1x Talisman of Indulgence

## 4.12 Doomsday Breya

Deck Link: <http://tappedout.net/mtg-decks/breya-ad-naus/>

Discord Url: N/A

Author: mmcgeach (<https://tappedout.net/users/mmcgeach>)

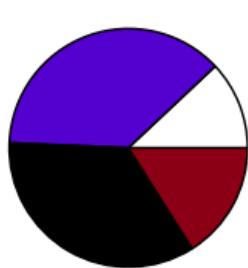
Commander(s): Breya, Etherium Shaper

Color: WUBR (W: 9 12.0% U: 28 37.3% B: 26 34.7% R: 12 16.0%)

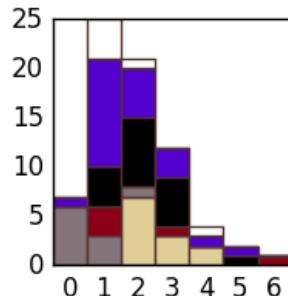
Avg. CMC: 1.88

Interaction Ratio: 0.61

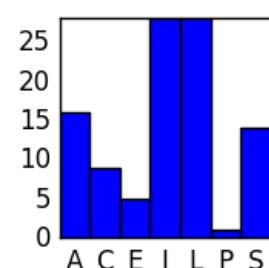
Cumulative CMC: 0: 0.10%, 1: 0.44%, 2: 0.74%, 3: 0.90%, 4: 0.96%, 5: 0.99%, 6: 1.00%



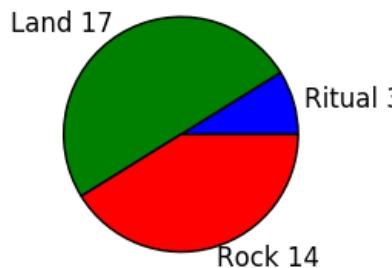
(a) Mana Pie



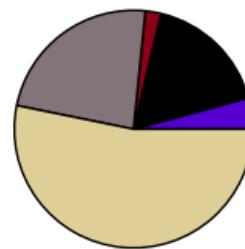
(b) CMC



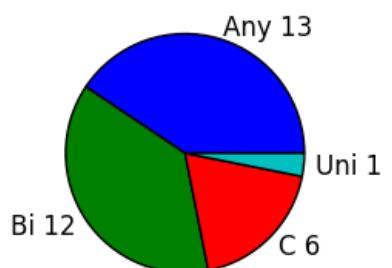
(c) Card Type



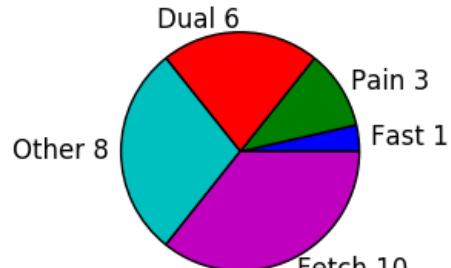
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 42: Doomsday Breya

Decklist: Doomsday Breya, Cockatrice Hash: 11gpe79q

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Sorcery (14)</b>
1x Breya, Etherium Shaper	1x Ad Nauseam 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Dark Ritual 1x Delay 1x Dispel 1x Enlightened Tutor 1x Entomb 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Izzet Charm 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Pact of Negation 1x Pull from Eternity 1x Pyroblast 1x Silence 1x Swan Song 1x Swords to Plowshares 1x Tainted Pact 1x Thought Scour 1x Vampiric Tutor 1x Wear // Tear	1x Deep Analysis 1x Demonic Tutor 1x Doomsday 1x Faithless Looting 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Merchant Scroll 1x Night's Whisper 1x Preordain 1x Toxic Deluge 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>		<b>Artifact (15)</b>
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bazaar of Baghdad 1x Bloodstained Mire 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Darkslick Shores 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Gemstone Mine 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Plateau 1x Polluted Delta 1x Scalding Tarn 1x Scrubland 1x Tundra 1x Underground Sea 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Volcanic Island 1x Windswept Heath 1x Wooded Foothills		1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Izzet Signet 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Indulgence 1x Talisman of Progress
<b>Enchantment (5)</b>		<b>Creature (8)</b>
1x Animate Dead 1x Dance of the Dead 1x Mystic Remora 1x Necromancy 1x Necropotence		1x Auriok Salvagers 1x Dark Confidant 1x Grand Abolisher 1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Notion Thief 1x Snapcaster Mage 1x Worldgorger Dragon
<b>Planeswalker (1)</b>	<b>Dack Fayden</b>	

### 4.13 Doomsday Yidris

Deck Link: <http://tappedout.net/mtg-decks/yidris-stormdoomsday-20/>

Discord Url: N/A

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

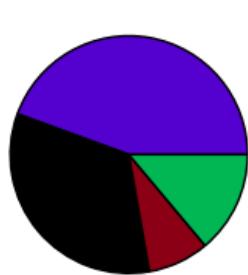
Commander(s): Yidris, Maelstrom Wielder

Color: UBRG (U: 32 44.4% B: 24 33.3% R: 6 8.3% G: 10 13.9%)

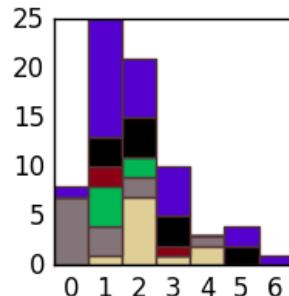
Avg. CMC: 1.88

Interaction Ratio: 0.61

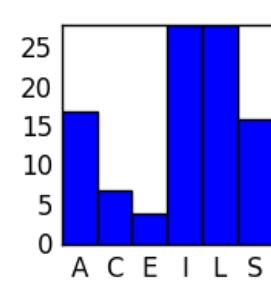
Cumulative CMC: 0: 0.11%, 1: 0.46%, 2: 0.75%, 3: 0.89%, 4: 0.93%, 5: 0.99%, 6: 1.00%



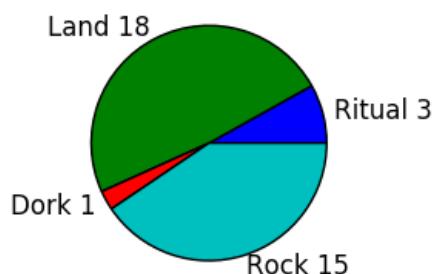
(a) Mana Pie



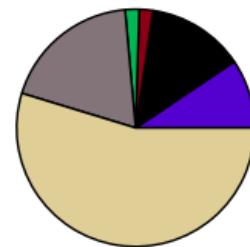
(b) CMC



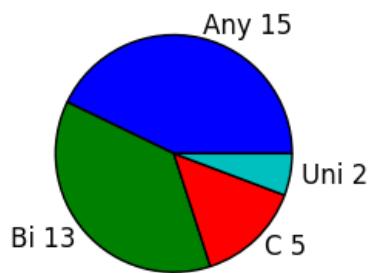
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 43: Doomsday Yidris

Decklist: Doomsday Yidris, Cockatrice Hash: u88v9dtp

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Sorcery (16)</b>
1x Yidris, Maelstrom Wielder	1x Abrupt Decay 1x Ad Nauseam 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Dramatic Reversal 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Gush 1x High Tide 1x Into the Roil 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Manamorphose 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Spell Pierce 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor	1x Ancestral Vision 1x Dark Petition 1x Demonic Tutor 1x Doomsday 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Mind's Desire 1x Ponder 1x Preordain 1x Rolling Earthquake 1x Summer Bloom 1x Timetwister 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>		
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Snow-Covered Island 1x Steam Vents 1x Tarnished Citadel 1x Tropical Island 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills		
<b>Enchantment (4)</b>		
1x Carpet of Flowers 1x Mystic Remora 1x Necropotence 1x Sylvan Library	1x Baral, Chief of Compliance 1x Birds of Paradise 1x Dark Confidant 1x Deathrite Shaman 1x Laboratory Maniac 1x Notion Thief	1x Aetherflux Reservoir 1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Helm of Awakening 1x Izzet Signet 1x Lion's Eye Diamond 1x Lotus Bloom 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Simic Signet 1x Sol Ring 1x Talisman of Dominance
<b>Creature (6)</b>		

#### 4.14 Doomsday Zur

Deck Link: <https://tappedout.net/mtg-decks/12-05-17-AKL-zur-doomsday/>

Discord Url: <https://discord.gg/3r8uheX>

Author: AlwaysSleepy (<https://tappedout.net/users/AlwaysSleepy>)

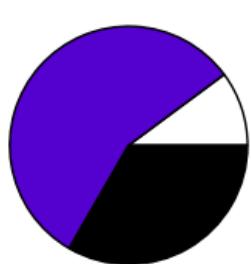
Commander(s): Zur the Enchanter

Color: WUB (W: 7 10.1% U: 39 56.5% B: 23 33.3%)

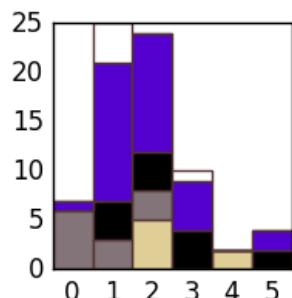
Avg. CMC: 1.82

Interaction Ratio: 0.67

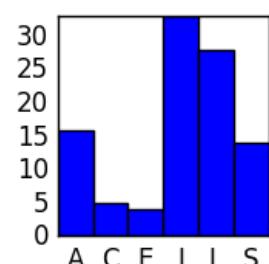
Cumulative CMC: 0: 0.10%, 1: 0.44%, 2: 0.78%, 3: 0.92%, 4: 0.94%, 5: 1.00%



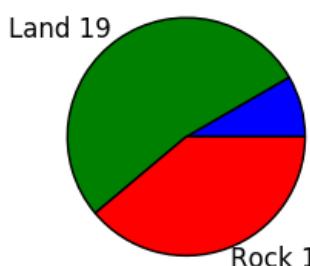
(a) Mana Pie



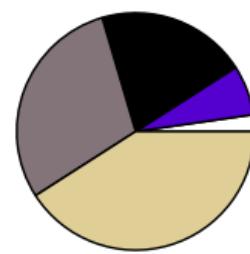
(b) CMC



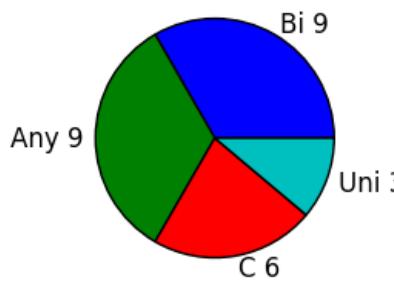
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 44: Doomsday Zur

Decklist: Doomsday Zur, Cockatrice Hash: bqscfpnb

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<b>Commander (1)</b>	<b>Instant (33)</b>	<b>Sorcery (14)</b>
1x Zur the Enchanter	1x Ad Nauseam 1x Angel's Grace 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dramatic Reversal 1x Enlightened Tutor 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Gush 1x High Tide 1x Impulse 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Negate 1x Pact of Negation 1x Predict 1x Silence 1x Snap 1x Spell Pierce 1x Swan Song 1x Swords to Plowshares 1x Vampiric Tutor	1x Dark Petition 1x Demonic Tutor 1x Doomsday 1x Gitaxian Probe 1x Imperial Seal 1x Merchant Scroll 1x Night's Whisper 1x Ponder 1x Preordain 1x Sleight of Hand 1x Timetwister 1x Toxic Deluge 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>		<b>Artifact (16)</b>
1x Ancient Tomb 1x Arid Mesa 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Hallowed Fountain 8x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Scrubland 1x Swamp 1x Tundra 1x Underground Sea 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath		1x Azorius Signet 1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Helm of Awakening 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Progress
<b>Enchantment (4)</b>		
1x Copy Artifact 1x Grasp of Fate 1x Mystic Remora 1x Necropotence		
<b>Creature (4)</b>		
1x Dark Confidant 1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Notion Thief		

## 4.15 E-MAN

Deck Link: <https://tappedout.net/mtg-decks/e-man-1/>

Discord Url: <https://discord.gg/9AwgYgs>

Author: biopouvoir (<https://tappedout.net/users/biopouvoir>)

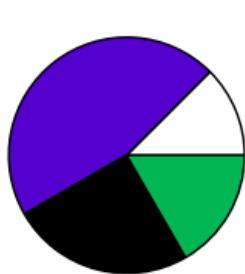
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 9 12.5% U: 33 45.8% B: 18 25.0% G: 12 16.7%)

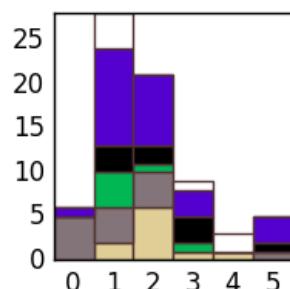
Avg. CMC: 1.86

Interaction Ratio: 0.61

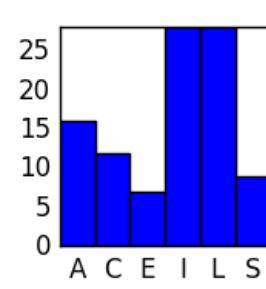
Cumulative CMC: 0: 0.08%, 1: 0.47%, 2: 0.76%, 3: 0.89%, 4: 0.93%, 5: 1.00%



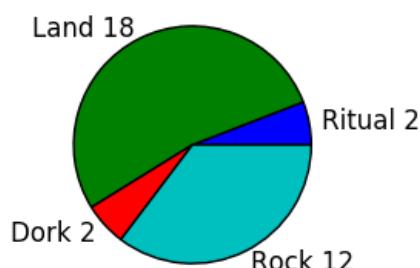
(a) Mana Pie



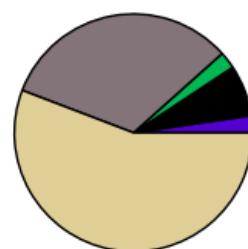
(b) CMC



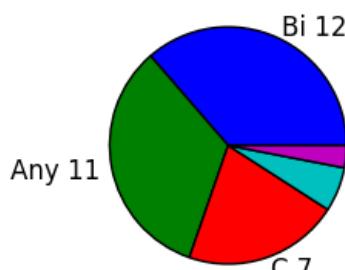
(c) Card Type



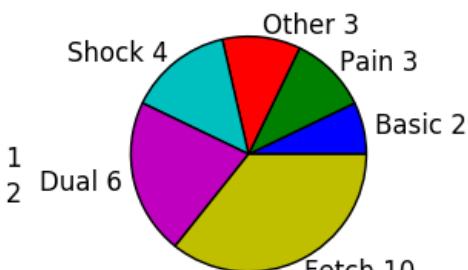
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 45: E-MAN

Decklist: E-MAN, Cockatrice Hash: qhquiqql

<b>Commander (2)</b>	<b>Instant (28)</b>	<b>Enchantment (7)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Tymna the Weaver	1x Ad Nauseam	1x Copy Artifact
	1x Angel's Grace	1x Counterbalance
<b>Land (28)</b>	1x Assassin's Trophy	1x Mystic Remora
1x Ancient Tomb	1x Brainstorm	1x Rhystic Study
1x Arid Mesa	1x Chain of Vapor	1x Sylvan Library
1x Bayou	1x Cyclonic Rift	1x Training Grounds
1x Bloodstained Mire	1x Dark Ritual	
1x Breeding Pool	1x Delay	<b>Sorcery (9)</b>
1x City of Brass	1x Dispel	1x Demonic Tutor
1x Command Tower	1x Dramatic Reversal	1x Devastation Tide
1x Exotic Orchard	1x Enlightened Tutor	1x Grim Tutor
1x Flooded Strand	1x Flusterstorm	1x Imperial Seal
1x Forest	1x Force of Will	1x Ponder
1x Gemstone Caverns	1x Lim-Dûl's Vault	1x Praetor's Grasp
1x Hallowed Fountain	1x Mana Drain	1x Timetwister
1x Island	1x Mental Misstep	1x Toxic Deluge
1x Mana Confluence	1x Misdirection	1x Windfall
1x Marsh Flats	1x Mystical Tutor	
1x Misty Rainforest	1x Nature's Claim	<b>Artifact (16)</b>
1x Overgrown Tomb	1x Negate	1x Chrome Mox
1x Polluted Delta	1x Noxious Revival	1x Fellwar Stone
1x Savannah	1x Pact of Negation	1x Grafdigger's Cage
1x Scalding Tarn	1x Silence	1x Grim Monolith
1x Scrubland	1x Stifle	1x Isochron Scepter
1x Tropical Island	1x Swan Song	1x Mana Crypt
1x Tundra	1x Swords to Plowshares	1x Mana Vault
1x Underground Sea	1x Vampiric Tutor	1x Mox Amber
1x Verdant Catacombs		1x Mox Diamond
1x Watery Grave		1x Mox Opal
1x Windswept Heath		1x Paradox Engine
1x Wooded Foothills		1x Scroll Rack
		1x Sensei's Divining Top
		1x Sol Ring
		1x Talisman of Dominance
		1x Talisman of Progress
		<b>Creature (10)</b>
		1x Alms Collector
		1x Aven Mindcensor
		1x Birds of Paradise
		1x Dark Confidant
		1x Deathrite Shaman
		1x Gilded Drake
		1x Linvala, Keeper of Silence
		1x Noble Hierarch
		1x Notion Thief
		1x Runic Armasaur

## 4.16 Edric Turns

Deck Link: <http://tappedout.net/mtg-decks/a-song-of-turns-and-dongers-cedh/>

Discord Url: <https://discord.gg/XvASnb>

Author: Allergymedsandcats (<https://tappedout.net/users/Allergymedsandcats>)

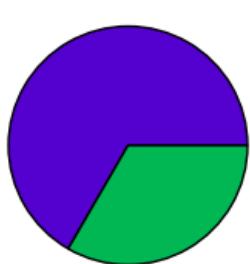
Commander(s): Edric, Spymaster of Trest

Color: UG (U: 54 66.7% G: 27 33.3%)

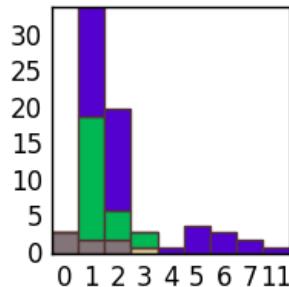
Avg. CMC: 2.11

Interaction Ratio: 0.41

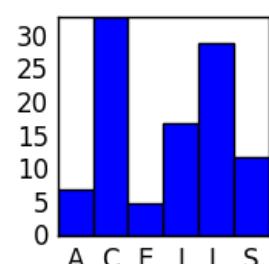
Cumulative CMC: 0: 0.04%, 1: 0.52%, 2: 0.80%, 3: 0.85%, 4: 0.86%, 5: 0.92%, 6: 0.96%, 7: 0.99%, 11: 1.00%



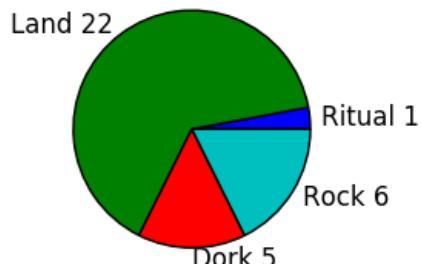
(a) Mana Pie



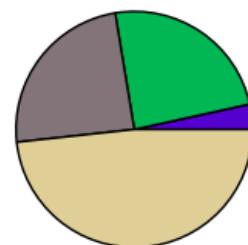
(b) CMC



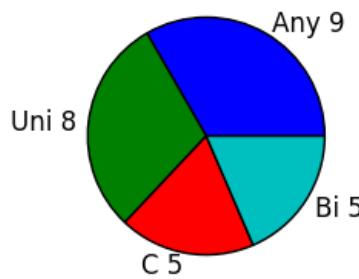
(c) Card Type



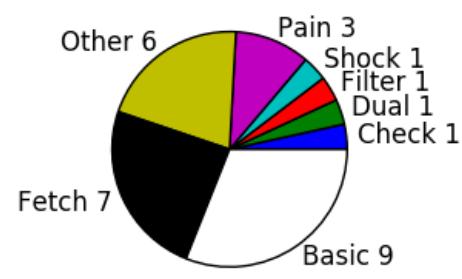
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 46: Edric Turns

Decklist: Edric Turns, Cockatrice Hash: jusflipq

<b>Commander (1)</b>	<b>Instant (17)</b>	<b>Creature (31)</b>
1x Edric, Spymaster of Trest	1x Crop Rotation 1x Cyclonic Rift 1x Delay 1x Dispel 1x Flusterstorm 1x Force of Will 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Narset's Reversal 1x Nature's Claim 1x Negate 1x Nexus of Fate 1x Noxious Revival 1x Reclaim 1x Spell Pierce 1x Unified Will	1x Arbor Elf 1x Baral, Chief of Compliance 1x Boreal Druid 1x Caustic Caterpillar 1x Cloud of Faeries 1x Eladamri, Lord of Leaves 1x Elvish Mystic 1x Eternal Witness 1x Faerie Miscreant 1x Fyndhorn Elves 1x Gudul Lurker 1x Hope of Ghirapur 1x Llanowar Elves 1x Lootet il-Kor 1x Mausoleum Wanderer 1x Mist-Cloaked Herald 1x Nightveil Sprite 1x Phantasmal Image 1x Phyrexian Revoker 1x Priest of Titania 1x Scryb Sprites 1x Siren Stormtamer 1x Slither Blade 1x Snapcaster Mage 1x Spellstutter Sprite 1x Spire Tracer 1x Sylvan Safekeeper 1x Tetsuko Umezawa, Fugitive 1x Treetop Scout 1x Triton Shorestalker 1x Wingcrafter
<b>Land (29)</b>	<b>Sorcery (12)</b>	
1x Breeding Pool 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Dryad Arbor 1x Flooded Grove 1x Flooded Strand 3x Forest 1x Gaea's Cradle 1x Hinterland Harbor 6x Island 1x Mana Confluence 1x Misty Rainforest 1x Nykthos, Shrine to Nyx 1x Polluted Delta 1x Reflecting Pool 1x Scalding Tarn 1x Tropical Island 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast	1x Capture of Jingzhou 1x Green Sun's Zenith 1x Karn's Temporal Sundering 1x Notorious Throng 1x Part the Waterveil 1x Personal Tutor 1x Regrowth 1x Temporal Manipulation 1x Temporal Mastery 1x Temporal Trespass 1x Time Warp 1x Walk the Aeons	
<b>Enchantment (5)</b>		
1x Carpet of Flowers 1x Druids' Repository 1x Exploration 1x Mystic Remora 1x Sylvan Library		
<b>Artifact (5)</b>		
1x Chrome Mox 1x Mana Crypt 1x Mox Diamond 1x Null Rod 1x Sol Ring		

#### 4.17 Food Chain Niv

Deck Link: <https://tappedout.net/mtg-decks/food-chain-niv/>

Discord Url: N/A

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

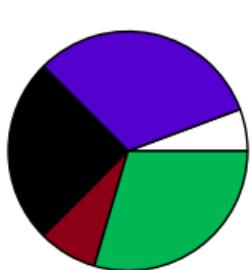
Commander(s): Niv-Mizzet Reborn

Color: WUBRG (W: 5 5.7% U: 28 31.8% B: 22 25.0% R: 7 8.0% G: 26 29.5%)

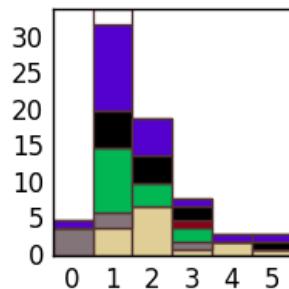
Avg. CMC: 1.71

Interaction Ratio: 0.62

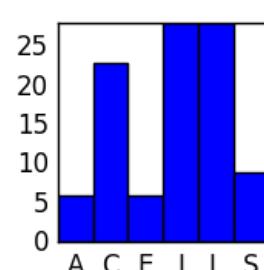
Cumulative CMC: 0: 0.07%, 1: 0.54%, 2: 0.81%, 3: 0.92%, 4: 0.96%, 5: 1.00%



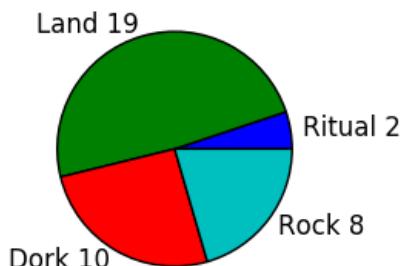
(a) Mana Pie



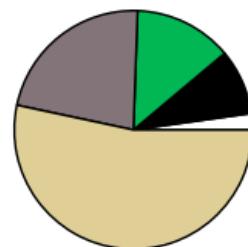
(b) CMC



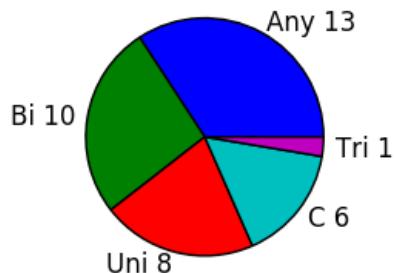
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 47: Food Chain Niv

Decklist: Food Chain Niv, Cockatrice Hash: qklk766m

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Sorcery (9)</b>
1x Niv-Mizzet Reborn	1x Abrupt Decay 1x Ad Nauseam 1x Assassin's Trophy 1x Brainstorm 1x Chain of Vapor 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dovin's Veto 1x Enlightened Tutor 1x Entomb 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Plunge into Darkness 1x Silence 1x Spell Pierce 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor	1x Demonic Tutor 1x Foresight 1x Gitaxian Probe 1x Imperial Seal 1x Manipulate Fate 1x Ponder 1x Preordain 1x Regrowth 1x Yawgmoth's Will
<b>Land (28)</b>		<b>Artifact (6)</b>
1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Forest 1x Gemstone Caverns 1x Gemstone Mine 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast	1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring	
		<b>Creature (22)</b>
		1x Arbor Elf 1x Avacyn's Pilgrim 1x Birds of Paradise 1x Boreal Druid 1x Circu, Dimir Lobotomist 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Elvish Spirit Guide 1x Eternal Scourge 1x Fyndhorn Elves 1x Gilded Drake 1x Hydroid Krasis 1x Laboratory Maniac 1x Llanowar Elves 1x Misthollow Griffin 1x Noble Hierarch 1x Sparkcaster 1x Squee, the Immortal 1x Vexing Shusher 1x Wall of Roots
		<b>Enchantment (6)</b>
	1x Carpet of Flowers 1x Food Chain 1x Mystic Remora 1x Necropotence 1x Sterling Grove 1x Sylvan Library	1x Fyndhorn Elves 1x Gilded Drake 1x Hydroid Krasis 1x Laboratory Maniac 1x Llanowar Elves 1x Misthollow Griffin 1x Noble Hierarch 1x Sparkcaster 1x Squee, the Immortal 1x Vexing Shusher 1x Wall of Roots

#### 4.18 Food Chain Prossh

Deck Link: <https://tappedout.net/mtg-decks/19-07-16-food-chain-prossh/>

Discord Url: <https://discord.gg/xFPmD2E>

Author: angelforge (<https://tappedout.net/users/angelforge>)

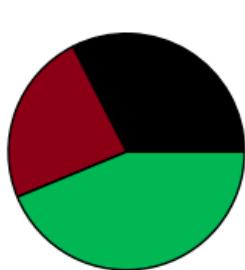
Commander(s): Prossh, Skyraider of Kher

Color: BRG (B: 26 32.5% R: 19 23.8% G: 35 43.8%)

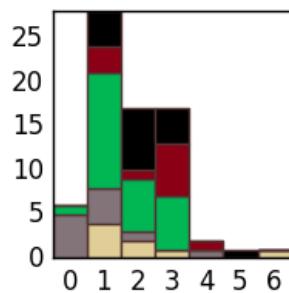
Avg. CMC: 1.83

Interaction Ratio: 0.47

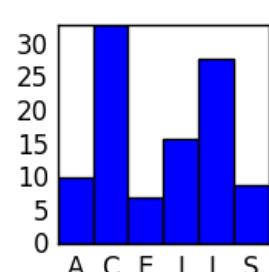
Cumulative CMC: 0: 0.08%, 1: 0.47%, 2: 0.71%, 3: 0.94%, 4: 0.97%, 5: 0.99%, 6: 1.00%



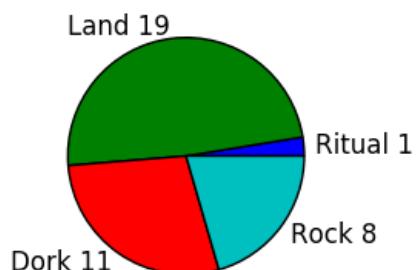
(a) Mana Pie



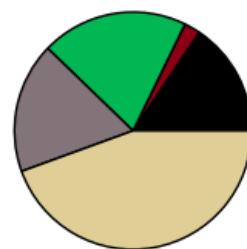
(b) CMC



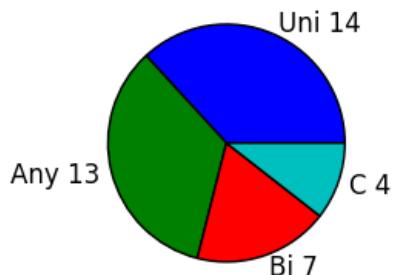
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 48: Food Chain Prossh

Decklist: Food Chain Prossh, Cockatrice Hash: gsmck2hr

<b>Commander (1)</b>	<b>Instant (16)</b>	<b>Artifact (9)</b>
1x Prossh, Skyraider of Kher	1x Abrupt Decay 1x Ad Nauseam 1x Autumn's Veil 1x Dark Ritual 1x Demonic Consultation 1x Final Fortune 1x Fire Covenant 1x Guttural Response 1x Nature's Claim 1x Noxious Revival 1x Plunge into Darkness 1x Pyroblast 1x Red Elemental Blast 1x Summoner's Pact 1x Tainted Pact 1x Vampiric Tutor	1x Chrome Mox 1x Defense Grid 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sensei's Divining Top 1x Skullclamp 1x Sol Ring
<b>Land (28)</b>		<b>Creature (31)</b>
1x Arid Mesa 1x Badlands 1x Bayou 1x Blood Crypt 1x Bloodstained Mire 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Dryad Arbor 1x Forbidden Orchard 1x Forest 1x Gaea's Cradle 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Scalding Tarn 1x Snow-Covered Forest 1x Snow-Covered Swamp 1x Stomping Ground 1x Swamp 1x Taiga 1x Tarnished Citadel 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills	1x Arbor Elf 1x Birds of Paradise 1x Blood Artist 1x Boreal Druid 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Elvish Spirit Guide 1x Eternal Witness 1x Fyndhorn Elves 1x Genesis Hydra 1x Goblin Bushwhacker 1x Goblin Matron 1x Imperial Recruiter 1x Llanowar Elves 1x Orcish Lumberjack 1x Purphoros, God of the Forge 1x Reckless Bushwhacker 1x Riftsweeper 1x Selvala, Heart of the Wilds 1x Simian Spirit Guide 1x Smothering Abomination 1x Squee, the Immortal 1x Sylvan Ranger 1x Vexing Shusher 1x Walking Ballista 1x Wall of Roots 1x Wood Elves 1x Xantid Swarm 1x Zulaport Cutthroat	
	<b>Enchantment (6)</b>	
	1x Carpet of Flowers 1x City of Solitude 1x Food Chain 1x Mirri's Guile 1x Necropotence 1x Sylvan Library	
	<b>Sorcery (9)</b>	
	1x Demonic Tutor 1x Diabolic Intent 1x Dimir Machinations 1x Green Sun's Zenith 1x Grim Tutor 1x Imperial Seal 1x Regrowth 1x Wheel of Fortune 1x Yawgmoth's Will	

#### 4.19 Food Chain Tazri

Deck Link: <http://tappedout.net/mtg-decks/food-chain-tazri/>

Discord Url: <https://discord.gg/B8XPcEz>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

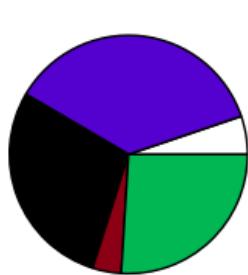
Commander(s): General Tazri

Color: WUBRG (W: 4 5.2% U: 28 36.4% B: 22 28.6% R: 3 3.9% G: 20 26.0%)

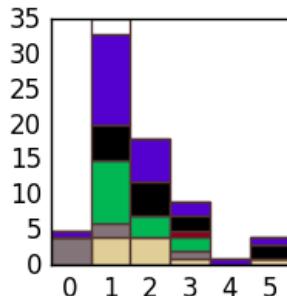
Avg. CMC: 1.69

Interaction Ratio: 0.62

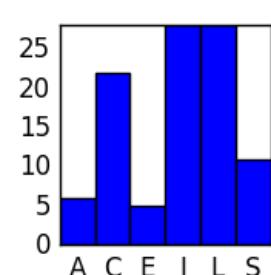
Cumulative CMC: 0: 0.07%, 1: 0.56%, 2: 0.81%, 3: 0.93%, 4: 0.94%, 5: 1.00%



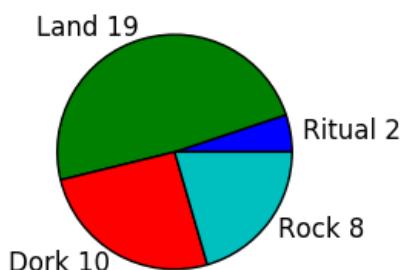
(a) Mana Pie



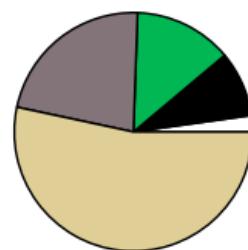
(b) CMC



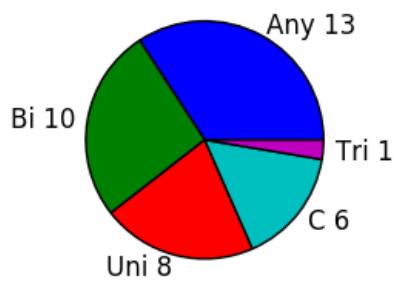
(c) Card Type



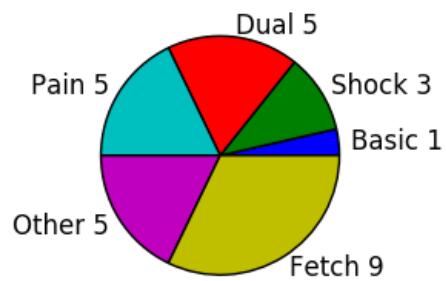
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 49: Food Chain Tazri

Decklist: Food Chain Tazri, Cockatrice Hash: ihbmoou0

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Sorcery (11)</b>
1x General Tazri	1x Abrupt Decay 1x Ad Nauseam 1x Assassin's Trophy 1x Brainstorm 1x Chain of Vapor 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dovin's Veto 1x Enlightened Tutor 1x Entomb 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Plunge into Darkness 1x Silence 1x Spell Pierce 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor	1x Demonic Tutor 1x Extract 1x Foresight 1x Gitaxian Probe 1x Imperial Seal 1x Manipulate Fate 1x Ponder 1x Preordain 1x Regrowth 1x Timetwister 1x Yawgmoth's Will
<b>Land (28)</b>		<b>Creature (21)</b>
1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Forest 1x Gemstone Caverns 1x Gemstone Mine 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast	1x Arbor Elf 1x Avacyn's Pilgrim 1x Birds of Paradise 1x Boreal Druid 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Elvish Spirit Guide 1x Eternal Scourge 1x Fyndhorn Elves 1x Gilded Drake 1x Hagra Diabolist 1x Halimar Excavator 1x Kalastralia Healer 1x Laboratory Maniac 1x Llanowar Elves 1x Misthollow Griffin 1x Noble Hierarch 1x Squee, the Immortal 1x Wall of Roots	
<b>Enchantment (5)</b>	<b>Artifact (6)</b>	
1x Carpet of Flowers 1x Food Chain 1x Mystic Remora 1x Necropotence 1x Sylvan Library	1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring	

## 4.20 Gitrog Dredge

Deck Link: <https://tappedout.net/mtg-decks/gitrog-land-combo/>

Discord Url: <https://discord.gg/2juKBHS>

Author: Leptys (<https://tappedout.net/users/Leptys>)

Commander(s): The Gitrog Monster

Color: BG (B: 30 46.2% G: 35 53.8%)

Avg. CMC: 1.78

Interaction Ratio: 0.55

Cumulative CMC: 0: 0.09%, 1: 0.55%, 2: 0.81%, 3: 0.92%, 5: 0.98%, 10: 1.00%

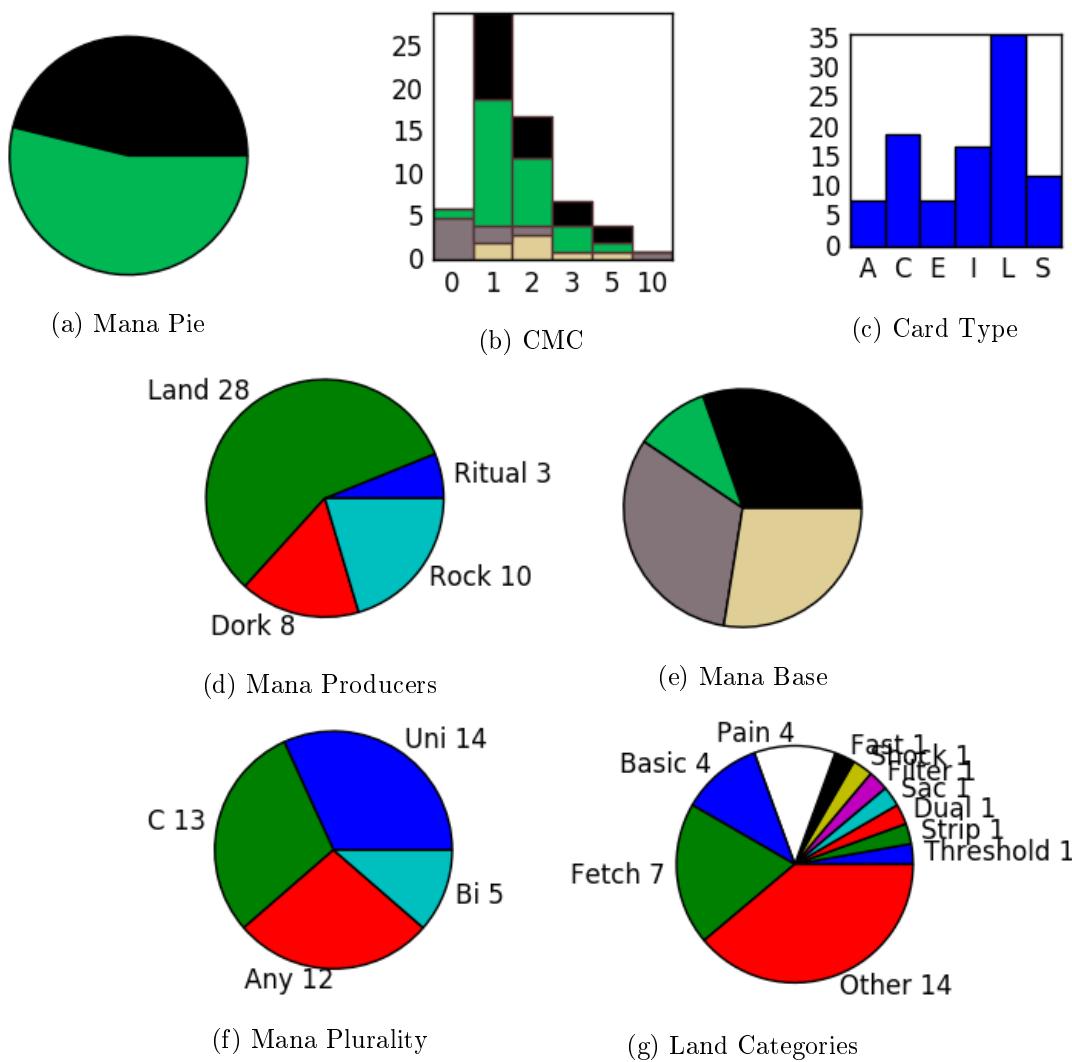


Figure 50: Gitrog Dredge

Decklist: Gitrog Dredge, Cockatrice Hash: sk1hhlib

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<b>Commander (1)</b>	<b>Land (36)</b>	<b>Sorcery (12)</b>
1x The Gitrog Monster	1x Ancient Tomb 1x Bayou 1x Bazaar of Baghdad 1x Bloodstained Mire 1x Blooming Marsh 1x Cabal Pit 1x Cavern of Souls 1x City of Brass 1x City of Traitors 1x Command Beacon 1x Command Tower 1x Crystal Vein 1x Dakmor Salvage 1x Emergence Zone 1x Forbidden Orchard 2x Forest 1x Gaea's Cradle 1x Gemstone Caverns 1x Homeward Path 1x Lake of the Dead 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Petrified Field 1x Phyrexian Tower 1x Polluted Delta 1x Strip Mine 2x Swamp 1x Twilight Mire 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills	1x Demonic Tutor 1x Diabolic Intent 1x Duress 1x Finale of Devastation 1x Gaea's Blessing 1x Green Sun's Zenith 1x Imperial Seal 1x Life from the Loam 1x Praetor's Grasp 1x Sylvan Tutor 1x Thoughtseize 1x Toxic Deluge
<b>Instant (17)</b>		<b>Creature (18)</b>
1x Abrupt Decay 1x Ad Nauseam 1x Assassin's Trophy 1x Autumn's Veil 1x Beast Within 1x Cabal Ritual 1x Crop Rotation 1x Culling the Weak 1x Dark Ritual 1x Darkblast 1x Entomb 1x Nature's Claim 1x Noxious Revival 1x Rain of Filth 1x Summoner's Pact 1x Vampiric Tutor 1x Worldly Tutor		1x Birds of Paradise 1x Caustic Caterpillar 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Spirit Guide 1x Fyndhorn Elves 1x Golgari Grave-Troll 1x Kozilek, Butcher of Truth 1x Llanowar Elves 1x Noose Constrictor 1x Priest of Titania 1x Putrid Imp 1x Ramunap Excavator 1x Riftsweeper 1x Skirge Familiar 1x Sylvan Safekeeper 1x Wall of Roots
<b>Enchantment (8)</b>		
1x Carpet of Flowers 1x Exploration 1x Necropotence 1x Oblivion Crown 1x Pernicious Deed 1x Squandered Resources 1x Sylvan Library 1x Wild Growth		
<b>Artifact (8)</b>		
1x Chrome Mox 1x Grim Monolith 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring		

## 4.21 Godo Helm

Deck Link: <https://tappedout.net/mtg-decks/waiting-for-godo-cedh-primer/>

Discord Url: <https://discord.gg/HWf2VWJ>

Author: gtoast99 (<https://tappedout.net/users/gtoast99>)

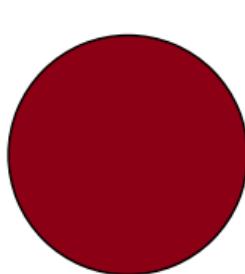
Commander(s): Godo, Bandit Warlord

Color: R (R: 33 100.0%)

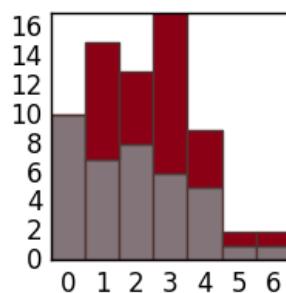
Avg. CMC: 2.21

Interaction Ratio: 0.50

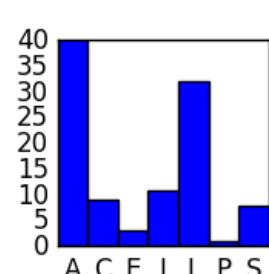
Cumulative CMC: 0: 0.15%, 1: 0.37%, 2: 0.56%, 3: 0.81%, 4: 0.94%, 5: 0.97%, 6: 1.00%



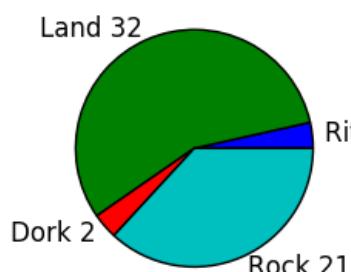
(a) Mana Pie



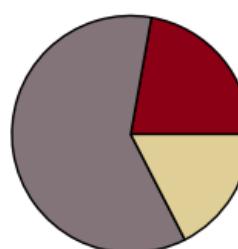
(b) CMC



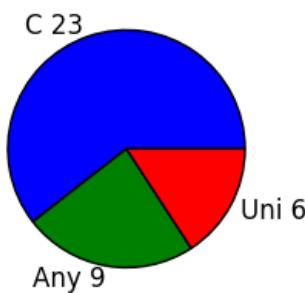
(c) Card Type



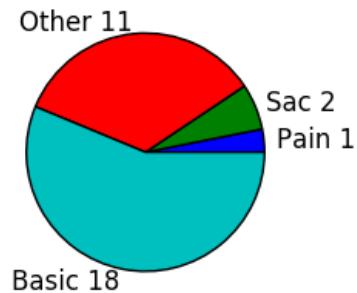
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 51: Godo Helm

Decklist: Godo Helm, Cockatrice Hash: jr91ag2m

<b>Commander (1)</b>	<b>Sorcery (8)</b>	<b>Artifact (36)</b>
1x Godo, Bandit Warlord	1x Gamble 1x Heat Shimmer 1x Rite of Flame 1x Shattering Spree 1x Sweltering Suns 1x Twinflame 1x Wheel of Fortune 1x Whipflare	1x Argentum Armor 1x Basalt Monolith 1x Chalice of the Void 1x Chrome Mox 1x Codex Shredder 1x Cursed Totem 1x Defense Grid 1x Everflowing Chalice 1x Expedition Map 1x Fellwar Stone 1x Fractured Powerstone 1x Grafdigger's Cage 1x Grim Monolith 1x Hammer of Nazahn 1x Helm of the Host 1x Honor-Worn Shaku 1x Jeweled Amulet 1x Krark-Clan Ironworks 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mind Stone 1x Mox Diamond 1x Mox Opal 1x Panharmonicon 1x Paradox Engine 1x Prismatic Lens 1x Sensei's Divining Top 1x Sol Ring 1x Thought Vessel 1x Thran Dynamo 1x Trinisphere 1x Voltaic Key 1x Welding Jar 1x Worn Powerstone
<b>Land (32)</b>	<b>Creature (8)</b>	
1x Ancient Tomb 1x Blast Zone 1x Buried Ruin 1x Cavern of Souls 1x City of Traitors 1x Crystal Vein 1x Darksteel Citadel 1x Dwarven Ruins 1x Emergence Zone 1x Gemstone Caverns 1x Great Furnace 1x Inventors' Fair 18x Mountain 1x Sandstone Needle 1x Sequestered Stash	1x Brass Squire 1x Dire Fleet Daredevil 1x Goblin Welder 1x Imperial Recruiter 1x Magus of the Moon 1x Metalworker 1x Simian Spirit Guide 1x Treasonous Ogre	
<b>Instant (11)</b>		
1x Abrade 1x Chaos Warp 1x Final Fortune 1x Lightning Bolt 1x Magnetic Theft 1x Mogg Salvage 1x Pyroblast 1x Red Elemental Blast 1x Ricochet Trap 1x Seething Song 1x Thunderclap		
<b>Enchantment (3)</b>		
1x Blood Moon 1x Possibility Storm 1x Stranglehold		
<b>Planeswalker (1)</b>		
1x Daretti, Scrap Savant		

## 4.22 Grixis Consultation

Deck Link: <http://tappedout.net/mtg-decks/consultation-kess-a-primer/>

Discord Url: <https://discord.gg/NeP6sAs>

Author: IIITheJManIII (<https://tappedout.net/users/IIITheJManIII>)

Commander(s): Kess, Dissident Mage

Color: UBR (U: 40 58.0% B: 22 31.9% R: 7 10.1%)

Avg. CMC: 1.81

Interaction Ratio: 0.61

Cumulative CMC: 0: 0.09%, 1: 0.46%, 2: 0.76%, 3: 0.91%, 4: 0.97%, 5: 1.00%

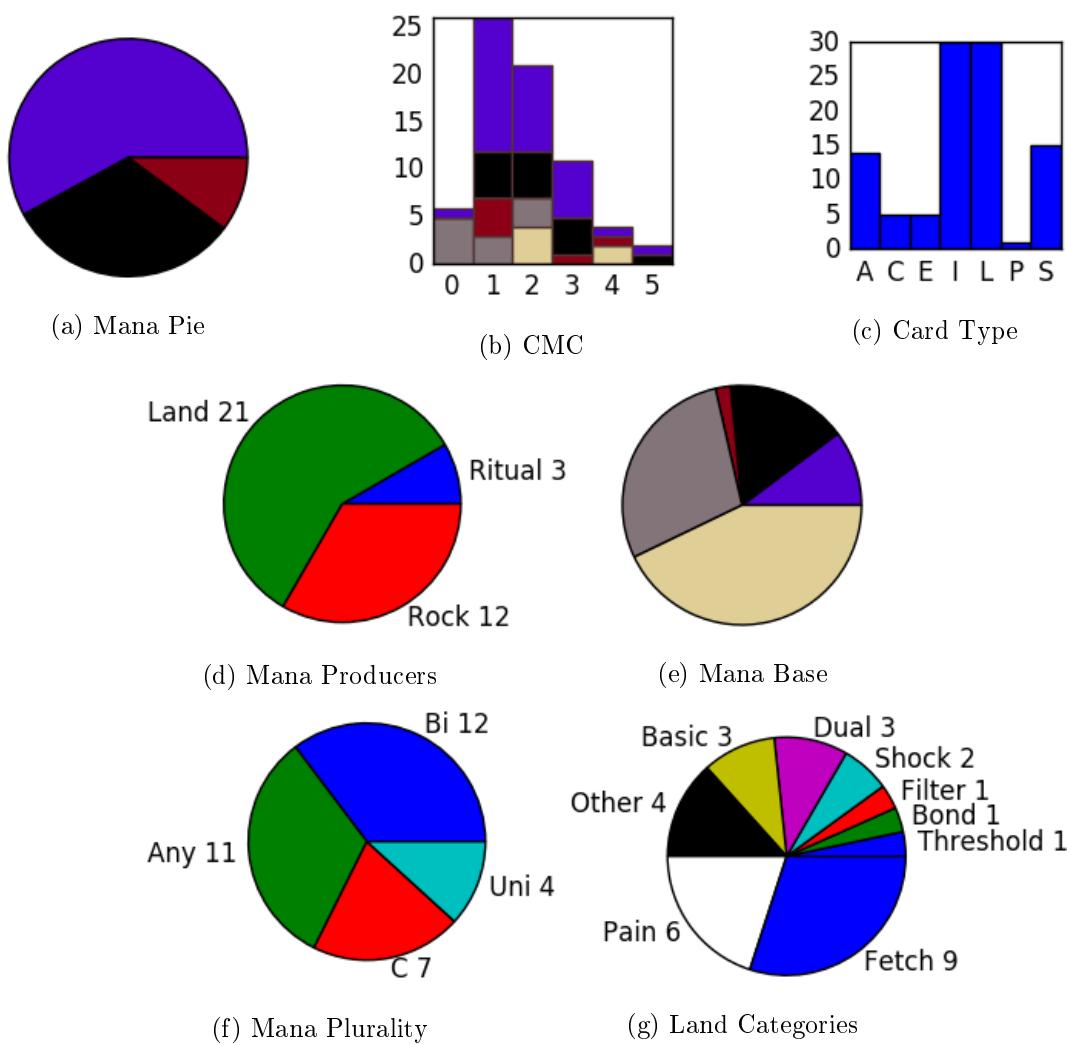


Figure 52: Grixis Consultation

Decklist: Grixis Consultation, Cockatrice Hash: 7apmtprt

<b>Commander (1)</b>	<b>Instant (30)</b>	<b>Enchantment (5)</b>
1x Kess, Dissident Mage	1x Ad Nauseam 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dramatic Reversal 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Narset's Reversal 1x Negate 1x Opt 1x Pact of Negation 1x Plunge into Darkness 1x Pyroblast 1x Red Elemental Blast 1x Spell Pierce 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor	1x Copy Artifact 1x Mystic Remora 1x Necropotence 1x Rhystic Study 1x Stranglehold
<b>Land (30)</b>		<b>Sorcery (15)</b>
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bloodstained Mire 1x Cephalid Coliseum 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Polluted Delta 1x Scalding Tarn 1x Shivan Reef 1x Snow-Covered Island 1x Steam Vents 1x Sunken Ruins 1x Swamp 1x Tarnished Citadel 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Wooded Foothills	1x Demonic Tutor 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Praetor's Grasp 1x Preordain 1x Rolling Earthquake 1x Sleight of Hand 1x Timetwister 1x Toxic Deluge 1x Unearth 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will	
<b>Planeswalker (1)</b>		<b>Artifact (14)</b>
1x Jace, Wielder of Mysteries	1x Dark Confidant 1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Notion Thief	1x Chrome Mox 1x Cursed Totem 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Izzet Signet 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance

## 4.23 Grixis Twin

Deck Link: <https://tappedout.net/mtg-decks/17-09-16-grixis-twin/>

Discord Url: <https://discord.gg/QtSQaA5>

Author: infiniteimoc (<https://tappedout.net/users/infiniteimoc>)

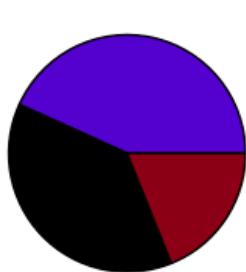
Commander(s): Kess, Dissident Mage

Color: UBR (U: 32 43.2% B: 28 37.8% R: 14 18.9%)

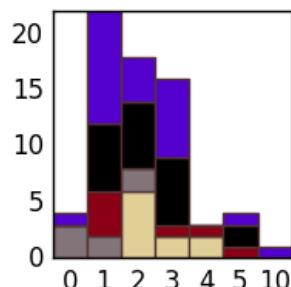
Avg. CMC: 2.18

Interaction Ratio: 0.57

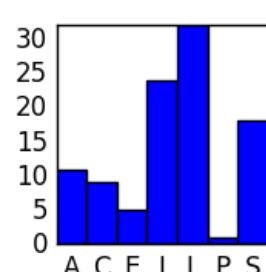
Cumulative CMC: 0: 0.06%, 1: 0.38%, 2: 0.65%, 3: 0.88%, 4: 0.93%, 5: 0.99%, 10: 1.00%



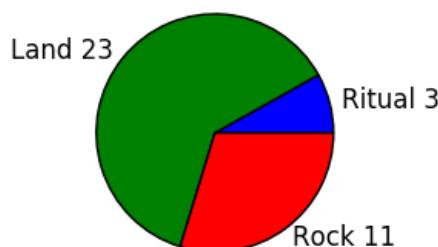
(a) Mana Pie



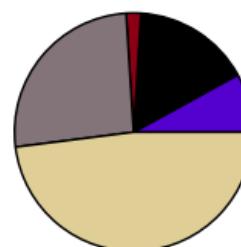
(b) CMC



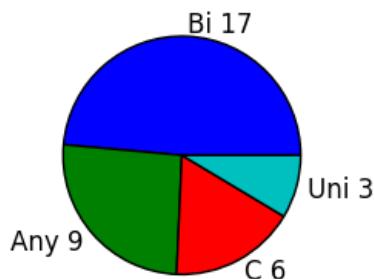
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 53: Grixis Twin

Decklist: Grixis Twin, Cockatrice Hash: 5h5t0nks

<b>Commander (1)</b>	<b>Instant (24)</b>	<b>Sorcery (18)</b>
1x Kess, Dissident Mage	1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Demonic Consultation 1x Dispel 1x Entomb 1x Fire Covenant 1x Force of Will 1x Frantic Search 1x Intuition 1x Izzet Charm 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Pact of Negation 1x Pyroblast 1x Red Elemental Blast 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor	1x Buried Alive 1x Chart a Course 1x Dark Petition 1x Demonic Tutor 1x Exhume 1x Faithless Looting 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Preordain 1x Reanimate 1x Timetwister 1x Toxic Deluge 1x Victimize 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (32)</b>		
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Blood Crypt 1x Bloodstained Mire 1x Cascade Bluffs 1x Cephalid Coliseum 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Graven Cairns 1x Island 1x Luxury Suite 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Polluted Delta 1x Scalding Tarn 1x Shivan Reef 1x Steam Vents 1x Sunken Ruins 1x Swamp 1x Tarnished Citadel 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Wooded Foothills		
<b>Planeswalker (1)</b>		
1x Dack Fayden		
<b>Enchantment (5)</b>		<b>Artifact (11)</b>
	1x Animate Dead 1x Mystic Remora 1x Necromancy 1x Necropotence 1x Splinter Twin	1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Izzet Signet 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Indulgence
<b>Creature (8)</b>		
		1x Dark Confidant 1x Deceiver Exarch 1x Jin-Gitaxias, Core Augur 1x Kiki-Jiki, Mirror Breaker 1x Laboratory Maniac 1x Notion Thief 1x Pestermite 1x Phyrexian Delver

## 4.24 HE-MAN

Deck Link: <https://tappedout.net/mtg-decks/the-holy-trinity-of-hate-99-casual-copy/>

Discord Url: <https://discord.gg/9AwgYgs>

Author: LabManiac\_Luke ([https://tappedout.net/users/LabManiac\\_Luke](https://tappedout.net/users/LabManiac_Luke))

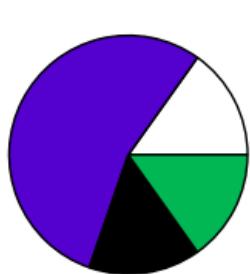
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 10 15.2% U: 36 54.5% B: 10 15.2% G: 10 15.2%)

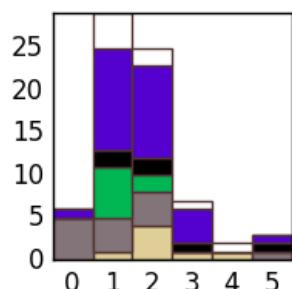
Avg. CMC: 1.71

Interaction Ratio: 0.60

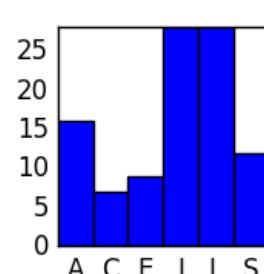
Cumulative CMC: 0: 0.08%, 1: 0.49%, 2: 0.83%, 3: 0.93%, 4: 0.96%, 5: 1.00%



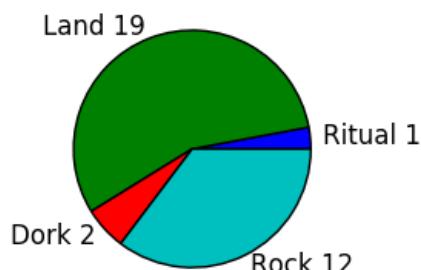
(a) Mana Pie



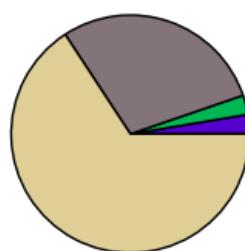
(b) CMC



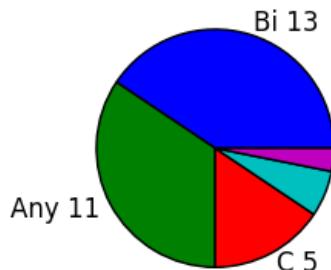
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 54: HE-MAN

Decklist: HE-MAN, Cockatrice Hash: 4bi0rbuq

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<b>Commander (2)</b>	<b>Instant (28)</b>	<b>Enchantment (9)</b>
1x Thrasios, Triton Hero	1x Ad Nauseam	1x Blind Obedience
1x Tymna the Weaver	1x Angel's Grace	1x Carpet of Flowers
	1x Brainstorm	1x Copy Artifact
<b>Land (28)</b>	1x Chain of Vapor	1x Humility
1x Adarkar Wastes	1x Cyclonic Rift	1x Mystic Remora
1x Arid Mesa	1x Delay	1x Rest in Peace
1x Bayou	1x Dispel	1x Rhystic Study
1x Bloodstained Mire	1x Dramatic Reversal	1x Sylvan Library
1x Breeding Pool	1x Enlightened Tutor	1x Wild Growth
1x City of Brass	1x Flusterstorm	
1x Command Tower	1x Force of Will	<b>Sorcery (12)</b>
1x Exotic Orchard	1x Impulse	1x Demonic Tutor
1x Flooded Strand	1x Lim-Dûl's Vault	1x Imperial Seal
1x Forest	1x Mana Drain	1x Merchant Scroll
1x Hallowed Fountain	1x Mental Misstep	1x Night's Whisper
3x Island	1x Mystical Tutor	1x Ponder
1x Mana Confluence	1x Natural State	1x Preordain
1x Marsh Flats	1x Nature's Claim	1x Regrowth
1x Misty Rainforest	1x Negate	1x Sleight of Hand
1x Polluted Delta	1x Noxious Revival	1x Timetwister
1x Savannah	1x Opt	1x Toxic Deluge
1x Scalding Tarn	1x Pact of Negation	1x Transmute Artifact
1x Scrubland	1x Silence	1x Windfall
1x Tropical Island	1x Swan Song	
1x Tundra	1x Swords to Plowshares	<b>Artifact (16)</b>
1x Underground River	1x Vampiric Tutor	1x Chrome Mox
1x Underground Sea	1x Whir of Invention	1x Cursed Totem
1x Verdant Catacombs	1x Winds of Rebuke	1x Fellwar Stone
1x Watery Grave		1x Grafdigger's Cage
1x Windswept Heath		1x Grim Monolith
		1x Isochron Scepter
<b>Creature (5)</b>		1x Mana Crypt
1x Aven Mindcensor		1x Mana Vault
1x Birds of Paradise		1x Mox Amber
1x Gilded Drake		1x Mox Diamond
1x Noble Hierarch		1x Mox Opal
1x Notion Thief		1x Paradox Engine
		1x Sensei's Divining Top
		1x Sol Ring
		1x Talisman of Dominance
		1x Talisman of Progress

## 4.25 Harvest Animar

Deck Link: <https://tappedout.net/mtg-decks/harvest-animar/>

Discord Url: <https://discord.gg/BXgec3K>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

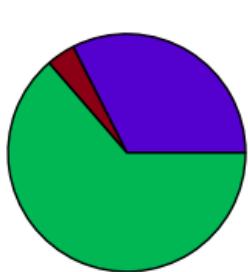
Commander(s): Animar, Soul of Elements

Color: URG (U: 25 32.5% R: 3 3.9% G: 49 63.6%)

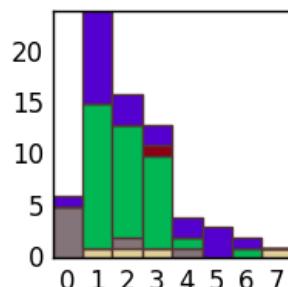
Avg. CMC: 2.10

Interaction Ratio: 0.36

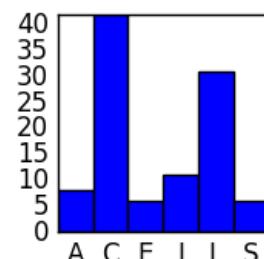
Cumulative CMC: 0: 0.09%, 1: 0.43%, 2: 0.67%, 3: 0.86%, 4: 0.91%, 5: 0.96%, 6: 0.99%, 7: 1.00%



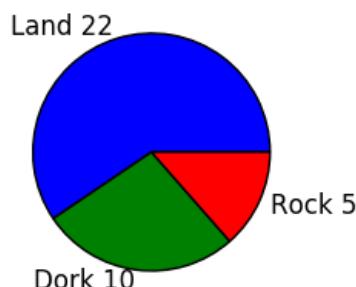
(a) Mana Pie



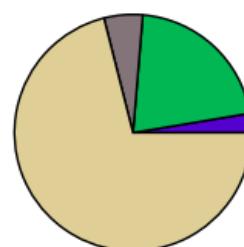
(b) CMC



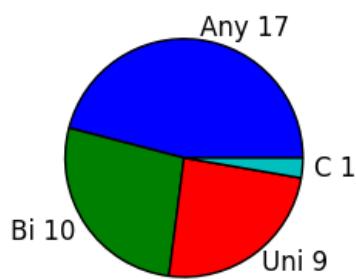
(c) Card Type



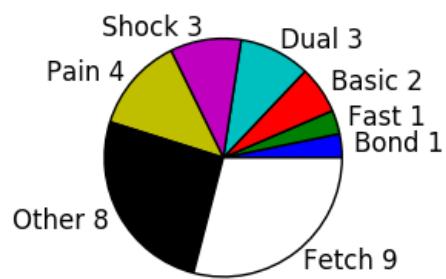
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 55: Harvest Animar

Decklist: Harvest Animar, Cockatrice Hash: ejpr70gp

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<b>Commander (1)</b>	<b>Instant (11)</b>	<b>Creature (41)</b>
1x Animar, Soul of Elements	1x Ancient Animus 1x Brainstorm 1x Chord of Calling 1x Crop Rotation 1x Dispel 1x Flusterstorm 1x Mental Misstep 1x Mystical Tutor 1x Pact of Negation 1x Swan Song 1x Worldly Tutor	1x Ancestral Statue 1x Arbor Elf 1x Bane of Progress 1x Beast Whisperer 1x Beastcaller Savant 1x Birds of Paradise 1x Bloom Tender 1x Bond Beetle 1x Cloud of Faeries 1x Consecrated Sphinx 1x Elvish Mystic 1x Elvish Spirit Guide 1x Elvish Visionary 1x Eternal Witness 1x Fauna Shaman 1x Fyndhorn Elves 1x Gaea's Herald 1x Generous Patron 1x Gilded Drake 1x Imperial Recruiter 1x Kiri-Onna 1x Llanowar Elves 1x Loyal Drake 1x Mulldrifter 1x Peregrine Drake 1x Phantasmal Image 1x Phyrexian Metamorph 1x Priest of Titania 1x Prowling Serpopard 1x Rishkar, Peema Renegade 1x Runic Armasaur 1x Siren Stormtamer 1x Slithermuse 1x Spellseeker 1x Spellskite 1x Sylvan Safekeeper 1x Tishana, Voice of Thunder 1x Walking Ballista 1x Wall of Roots 1x Wild Cantor 1x Wood Elves
<b>Land (31)</b>		
1x Ancient Ziggurat 1x Arid Mesa 1x Bloodstained Mire 1x Botanical Sanctum 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gaea's Cradle 1x Grove of the Burnwillows 1x Mana Confluence 1x Misty Rainforest 1x Polluted Delta 1x Reflecting Pool 1x Scalding Tarn 1x Snow-Covered Forest 1x Snow-Covered Island 1x Spire Garden 1x Steam Vents 1x Stomping Ground 1x Taiga 1x Tarnished Citadel 1x Thran Quarry 1x Tropical Island 1x Verdant Catacombs 1x Volcanic Island 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		
	<b>Enchantment (6)</b>	
	1x Carpet of Flowers 1x Mystic Remora 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	
	<b>Sorcery (6)</b>	
	1x Eldritch Evolution 1x Gitaxian Probe 1x Glimpse of Nature 1x Neoform 1x Sylvan Tutor 1x Weird Harvest	
	<b>Artifact (4)</b>	
	1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mox Diamond	

## 4.26 High Tide Jace

Deck Link: <https://tappedout.net/mtg-decks/03-04-16-high-tide/>

Discord Url: <https://discord.gg/VhwSnyY>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

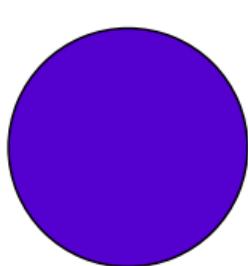
Commander(s): Jace, Vrynn's Prodigy

Color: U (U: 72 100.0%)

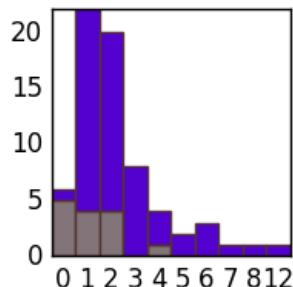
Avg. CMC: 2.31

Interaction Ratio: 0.57

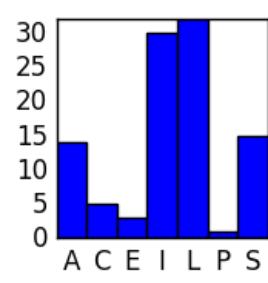
Cumulative CMC: 0: 0.09%, 1: 0.41%, 2: 0.71%, 3: 0.82%, 4: 0.88%, 5: 0.91%, 6: 0.96%, 7: 0.97%, 8: 0.99%, 12: 1.00%



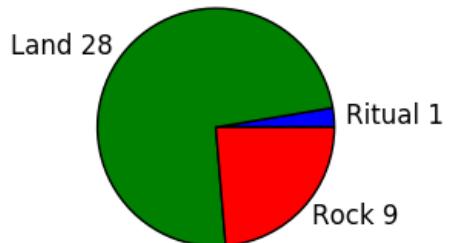
(a) Mana Pie



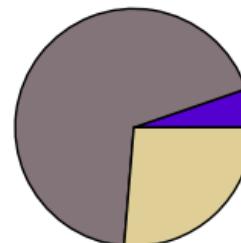
(b) CMC



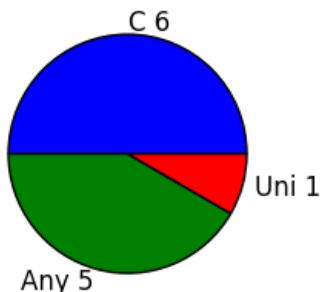
(c) Card Type



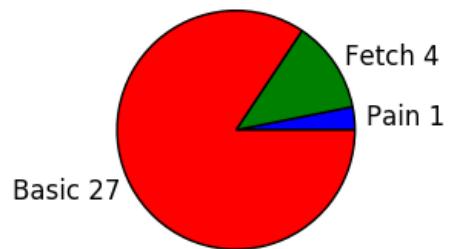
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 56: High Tide Jace

Decklist: High Tide Jace, Cockatrice Hash: 1da6j38t

<b>Commander (1)</b>	<b>Instant (30)</b>	<b>Artifact (14)</b>
1x Jace, Vryn's Prodigy	1x Blue Sun's Zenith 1x Brainstorm 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Dig Through Time 1x Dispel 1x Dramatic Reversal 1x Fact or Fiction 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x High Tide 1x Impulse 1x Intuition 1x Mana Drain 1x Mental Misstep 1x Muddle the Mixture 1x Mystical Tutor 1x Narset's Reversal 1x Negate 1x Obsessive Search 1x Opt 1x Pact of Negation 1x Snap 1x Spell Pierce 1x Submerge 1x Swan Song 1x Turnabout	1x Aetherflux Reservoir 1x Candelabra of Tawnos 1x Chrome Mox 1x Fellwar Stone 1x Grim Monolith 1x Isochron Scepter 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sapphire Medallion 1x Sensei's Divining Top 1x Sol Ring
<b>Land (32)</b>		
1x Ancient Tomb 1x Flooded Strand 27x Island 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn		
<b>Enchantment (3)</b>		
1x Copy Artifact 1x Mystic Remora 1x Rhystic Study		
<b>Sorcery (15)</b>		
1x Diminishing Returns 1x Enter the Infinite 1x Gitaxian Probe 1x Merchant Scroll 1x Mind's Desire 1x Personal Tutor 1x Ponder 1x Preordain 1x Recurring Insight 1x Serum Visions 1x Sleight of Hand 1x Time Spiral 1x Timetwister 1x Transmute Artifact 1x Windfall		
<b>Planeswalker (1)</b>		
1x Narset, Parter of Veils		
<b>Creature (4)</b>		
1x Baral, Chief of Compliance 1x Gilded Drake 1x Palinchron 1x Spellseeker		

## 4.27 Honorbru Meren

Deck Link: <https://tappedout.net/mtg-decks/honorbru-meren-finite-hulk/>  
 Discord Url: <https://discord.gg/HmVqsSU>  
 Author: roguelikedev (<https://tappedout.net/users/roguelikedev>)  
 Commander(s): Meren of Clan Nel Toth  
 Color: BG (B: 43 52.4% G: 39 47.6%)  
 Avg. CMC: 2.17  
 Interaction Ratio: 0.29  
 Cumulative CMC: 0: 0.06%, 1: 0.43%, 2: 0.65%, 3: 0.84%, 4: 0.93%, 5: 0.96%, 6: 0.97%, 7: 0.99%, 8: 1.00%

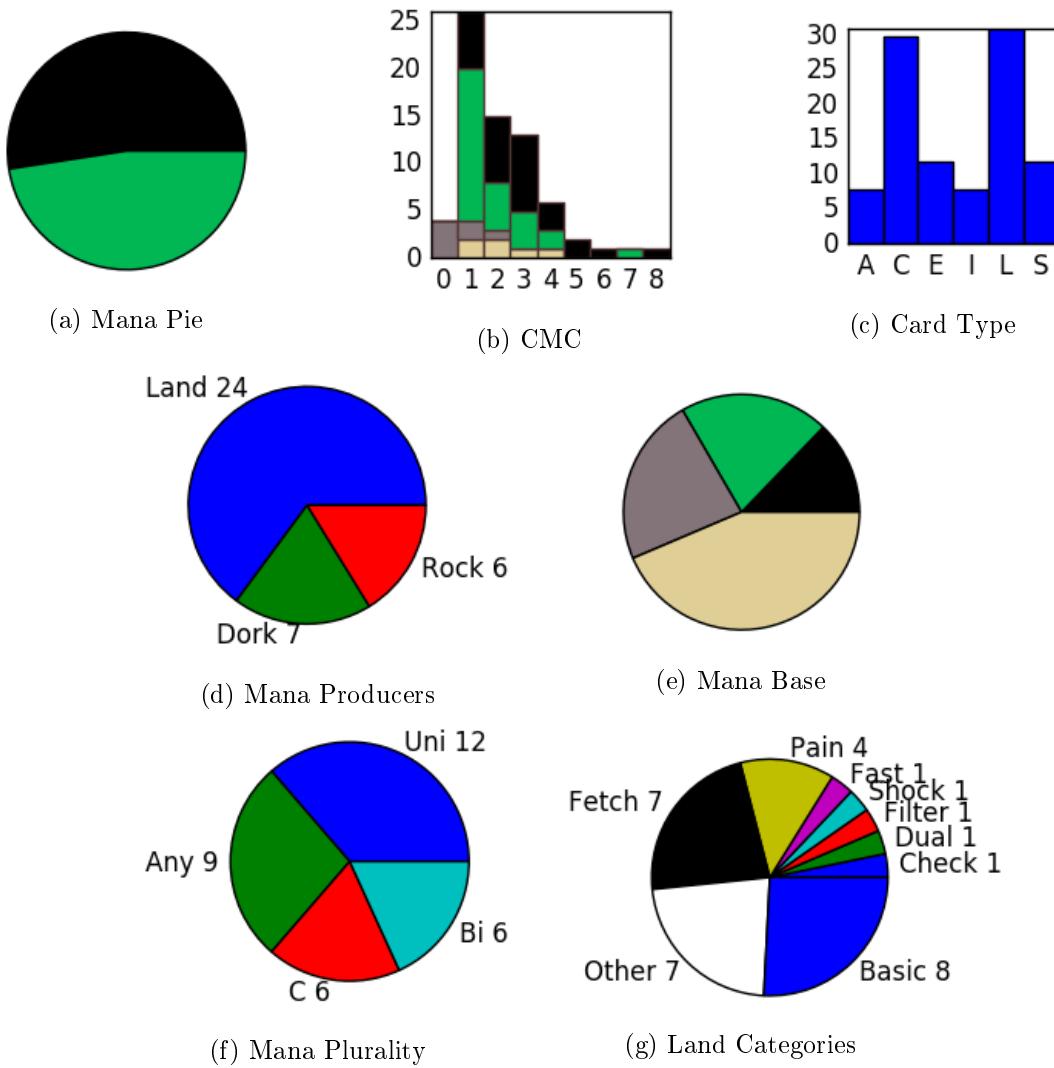


Figure 57: Honorbru Meren

Decklist: Honorbru Meren, Cockatrice Hash: l2lt0fg3

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<b>Commander (1)</b>	<b>Instant (8)</b>	<b>Artifact (8)</b>
1x Meren of Clan Nel Toth	1x Abrupt Decay 1x Assassin's Trophy 1x Crop Rotation 1x Entomb 1x Nature's Claim 1x Noxious Revival 1x Vampiric Tutor 1x Worldly Tutor	1x Birthing Pod 1x Chrome Mox 1x Lion's Eye Diamond 1x Mana Crypt 1x Mox Diamond 1x Null Rod 1x Skullclamp 1x Sol Ring
<b>Land (31)</b>		
1x Ancient Tomb 1x Bayou 1x Bloodstained Mire 1x Blooming Marsh 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Dryad Arbor 4x Forest 1x Gaea's Cradle 1x Gemstone Caverns 1x High Market 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Phyrexian Tower 1x Polluted Delta 1x Snow-Covered Forest 1x Snow-Covered Swamp 2x Swamp 1x Twilight Mire 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills 1x Woodland Cemetery		
<b>Enchantment (12)</b>		<b>Creature (28)</b>
	1x Animate Dead 1x Carpet of Flowers 1x Contamination 1x Dance of the Dead 1x Necromancy 1x Oppression 1x Pattern of Rebirth 1x Root Maze 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	1x Apprentice Necromancer 1x Arbor Elf 1x Birds of Paradise 1x Bloodthrone Vampire 1x Body Snatcher 1x Boreal Druid 1x Carrion Feeder 1x Caustic Caterpillar 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Eternal Witness 1x Fleshbag Marauder 1x Fyndhorn Elves 1x Gray Merchant of Asphodel 1x Llanowar Elves 1x Mikaeus, the Unhallowed 1x Mindslicer 1x Phyrexian Delver 1x Plaguecrafter 1x Priest of Titania 1x Protean Hulk 1x Razaketh, the Foulblooded 1x Reclamation Sage 1x Riftsweeper 1x Runic Armasaur 1x Viscera Seer
<b>Sorcery (12)</b>		
	1x Buried Alive 1x Demonic Tutor 1x Diabolic Intent 1x Eldritch Evolution 1x Finale of Devastation 1x Footsteps of the Goryo 1x Green Sun's Zenith 1x Imperial Seal 1x Life // Death 1x Reanimate 1x Toxic Deluge 1x Yahenni's Expertise	

## 4.28 Hulkweaver

Deck Link: <https://tappedout.net/mtg-decks/protean-weaver/>

Discord Url: <https://discord.gg/gqjbmsD>

Author: trestian (<https://tappedout.net/users/trestian>)

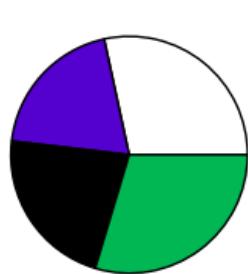
Commander(s): Thrasiros, Triton Hero, Tymna the Weaver

Color: WUBG (W: 23 28.4% U: 16 19.8% B: 18 22.2% G: 24 29.6%)

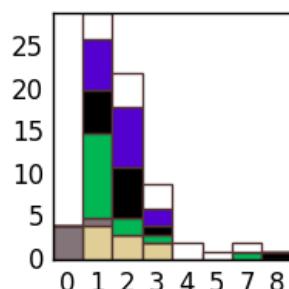
Avg. CMC: 1.93

Interaction Ratio: 0.47

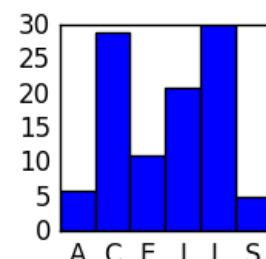
Cumulative CMC: 0: 0.06%, 1: 0.47%, 2: 0.79%, 3: 0.91%, 4: 0.94%, 5: 0.96%, 7: 0.99%, 8: 1.00%



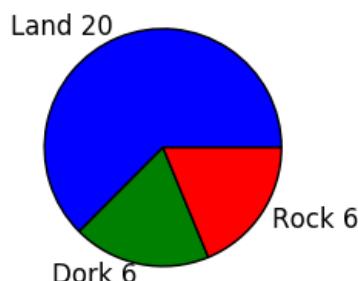
(a) Mana Pie



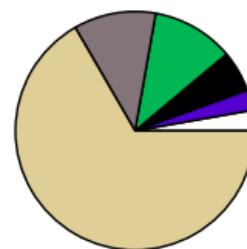
(b) CMC



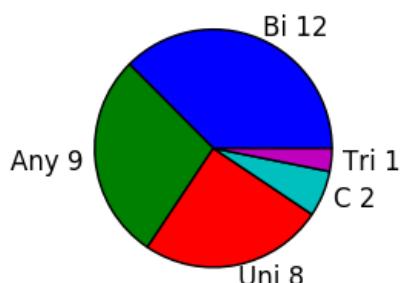
(c) Card Type



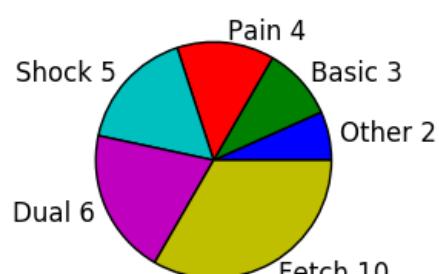
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 58: Hulkweaver

Decklist: Hulkweaver, Cockatrice Hash: 91sd8jpm

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<b>Commander (2)</b>	<b>Instant (21)</b>	<b>Sorcery (5)</b>
1x Thrasios, Triton Hero	1x Brainstorm	1x Demonic Tutor
1x Tymna the Weaver	1x Cyclonic Rift	1x Diabolic Intent
	1x Delay	1x Imperial Seal
	1x Dispel	1x Life // Death
<b>Land (30)</b>	1x Eladamri's Call	1x Reanimate
1x Arid Mesa	1x Enlightened Tutor	
1x Bayou	1x Entomb	
1x Bloodstained Mire	1x Flash	<b>Artifact (5)</b>
1x Breeding Pool	1x Intuition	1x Chrome Mox
1x City of Brass	1x Memory's Journey	1x Lion's Eye Diamond
1x Command Tower	1x Mental Misstep	1x Mana Crypt
1x Flooded Strand	1x Mystical Tutor	1x Mox Diamond
1x Forest	1x Natural State	1x Sol Ring
1x Gaea's Cradle	1x Nature's Claim	
1x Godless Shrine	1x Negate	<b>Creature (27)</b>
1x Hallowed Fountain	1x Noxious Revival	1x Arbor Elf
1x Horizon Canopy	1x Silence	1x Auriok Salvagers
1x Island	1x Swan Song	1x Avacyn's Pilgrim
1x Mana Confluence	1x Swords to Plowshares	1x Aven Mindcensor
1x Marsh Flats	1x Vampiric Tutor	1x Birds of Paradise
1x Misty Rainforest	1x Worldly Tutor	1x Blood Artist
1x Overgrown Tomb		1x Dark Confidant
1x Polluted Delta		1x Deathrite Shaman
1x Savannah	<b>Enchantment (10)</b>	1x Eidolon of Rhetoric
1x Scalding Tarn	1x Animate Dead	1x Elesh Norn, Grand Cenobite
1x Scrubland	1x Aura of Silence	1x Elves of Deep Shadow
1x Swamp	1x Carpet of Flowers	1x Elvish Mystic
1x Tarnished Citadel	1x Dance of the Dead	1x Eternal Witness
1x Temple Garden	1x Mystic Remora	1x Ethersworn Canonist
1x Tropical Island	1x Necromancy	1x Fyndhorn Elves
1x Tundra	1x Root Maze	1x Gilded Drake
1x Underground Sea	1x Stony Silence	1x Grand Abolisher
1x Verdant Catacombs	1x Survival of the Fittest	1x Karmic Guide
1x Windswept Heath	1x Sylvan Library	1x Leonin Relic-Warder
1x Wooded Foothills		1x Linvala, Keeper of Silence
		1x Noble Hierarch
		1x Phantasmal Image
		1x Protean Hulk
		1x Razaketh, the Foulblooded
		1x Saffi Eriksdotter
		1x Spellseeker
		1x Viscera Seer

## 4.29 Jeleva Storm

Deck Link: <https://tappedout.net/mtg-decks/jeleva-slim/>

Discord Url: <https://discord.gg/6v7wkPT>

Author: reversemermaid (<https://tappedout.net/users/reversemermaid>)

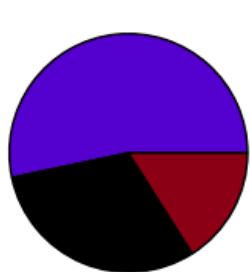
Commander(s): Jeleva, Nephila's Scourge

Color: UBR (U: 40 53.3% B: 23 30.7% R: 12 16.0%)

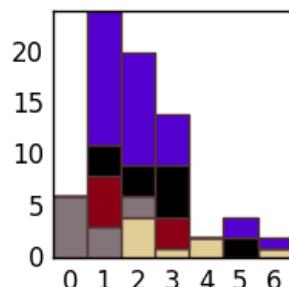
Avg. CMC: 2.03

Interaction Ratio: 0.58

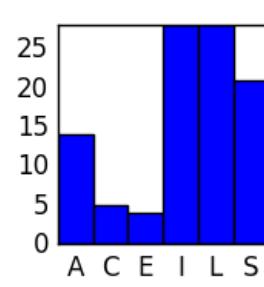
Cumulative CMC: 0: 0.08%, 1: 0.42%, 2: 0.69%, 3: 0.89%, 4: 0.92%, 5: 0.97%, 6: 1.00%



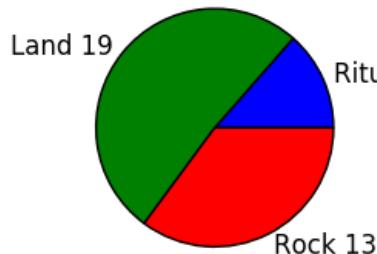
(a) Mana Pie



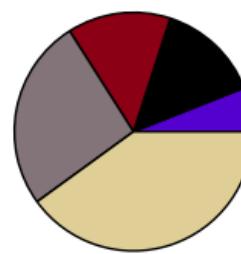
(b) CMC



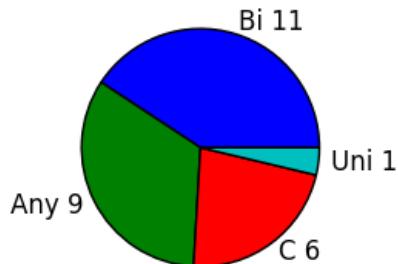
(c) Card Type



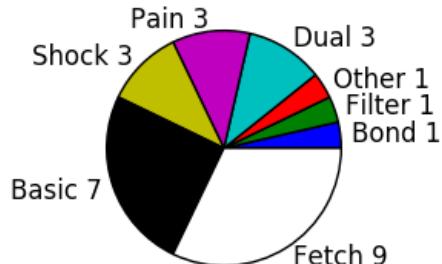
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 59: Jeleva Storm

Decklist: Jeleva Storm, Cockatrice Hash: ku0th0ap

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Sorcery (21)</b>
1x Jeleva, Nephalias Scourge	1x Ad Nauseam	1x Bonus Round
	1x Brainstorm	1x By Force
	1x Cabal Ritual	1x Dark Petition
<b>Land (28)</b>	1x Chain of Vapor	1x Demonic Tutor
1x Ancient Tomb	1x Cyclonic Rift	1x Doomsday
1x Arid Mesa	1x Dark Ritual	1x Gamble
1x Badlands	1x Delay	1x Gitaxian Probe
1x Blood Crypt	1x Dispel	1x Grim Tutor
1x Bloodstained Mire	1x Dramatic Reversal	1x Imperial Seal
1x City of Brass	1x Flusterstorm	1x Merchant Scroll
1x Command Tower	1x Force of Will	1x Mind's Desire
1x Flooded Strand	1x Frantic Search	1x Mnemonic Betrayal
7x Island	1x Gush	1x Night's Whisper
1x Mana Confluence	1x High Tide	1x Ponder
1x Marsh Flats	1x Impulse	1x Preordain
1x Misty Rainforest	1x Intuition	1x Rite of Flame
1x Morphic Pool	1x Mana Drain	1x Timetwister
1x Polluted Delta	1x Mental Misstep	1x Toxic Deluge
1x Scalding Tarn	1x Mystical Tutor	1x Wheel of Fortune
1x Steam Vents	1x Pyroblast	1x Windfall
1x Sunken Ruins	1x Red Elemental Blast	1x Yawgmoth's Will
1x Underground Sea	1x Remand	
1x Verdant Catacombs	1x Seething Song	<b>Artifact (14)</b>
1x Volcanic Island	1x Snap	1x Chrome Mox
1x Watery Grave	1x Spell Pierce	1x Dimir Signet
1x Wooded Foothills	1x Swan Song	1x Fellwar Stone
	1x Unsubstantiate	1x Grim Monolith
<b>Enchantment (4)</b>	1x Vampiric Tutor	1x Izzet Signet
1x Copy Artifact		1x Lion's Eye Diamond
1x Mystic Remora		1x Lotus Petal
1x Necropotence		1x Mana Crypt
1x Thousand-Year Storm		1x Mana Vault
		1x Mox Diamond
<b>Creature (4)</b>		1x Mox Opal
1x Baral, Chief of Compliance		1x Sensei's Divining Top
1x Goblin Electromancer		1x Sol Ring
1x Laboratory Maniac		1x Talisman of Dominance
1x Notion Thief		

### 4.30 Kess Storm

Deck Link: <https://tappedout.net/mtg-decks/grixis-flux-1/>

Discord Url: <https://discord.gg/NeP6sAs>

Author: Wedge-cEDH (<https://tappedout.net/users/Wedge-cEDH>)

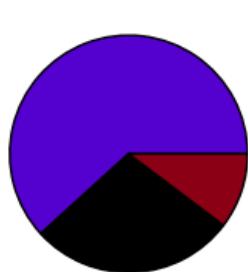
Commander(s): Kess, Dissident Mage

Color: UBR (U: 42 61.8% B: 19 27.9% R: 7 10.3%)

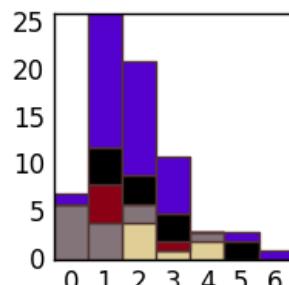
Avg. CMC: 1.86

Interaction Ratio: 0.60

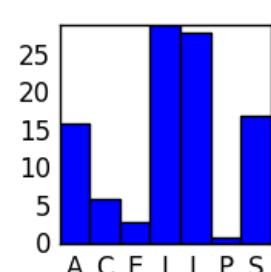
Cumulative CMC: 0: 0.10%, 1: 0.46%, 2: 0.75%, 3: 0.90%, 4: 0.94%, 5: 0.99%, 6: 1.00%



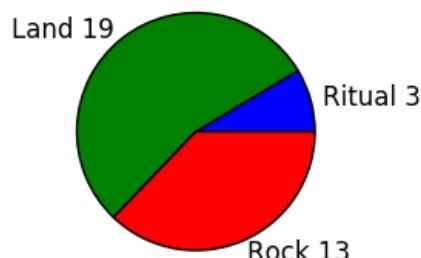
(a) Mana Pie



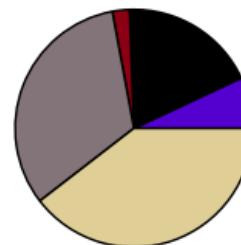
(b) CMC



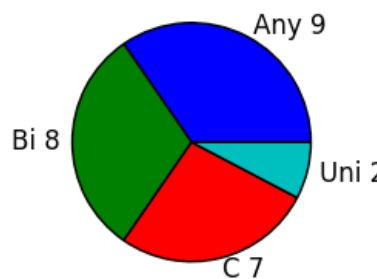
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 60: Kess Storm

Decklist: Kess Storm, Cockatrice Hash: f38e7t8u

<b>Commander (1)</b>	<b>Instant (29)</b>	<b>Sorcery (17)</b>
1x Kess, Dissident Mage	1x Ad Nauseam 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dramatic Reversal 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x High Tide 1x Impulse 1x Into the Roil 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Pact of Negation 1x Pyroblast 1x Rebuild 1x Snap 1x Spell Pierce 1x Swan Song 1x Vampiric Tutor	1x By Force 1x Dark Petition 1x Demonic Tutor 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Merchant Scroll 1x Mind's Desire 1x Ponder 1x Preordain 1x Rolling Earthquake 1x Sleight of Hand 1x Timetwister 1x Toxic Deluge 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>		
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Gemstone Caverns 8x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Steam Vents 1x Swamp 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Wooded Foothills		
<b>Enchantment (3)</b>		
1x Copy Artifact 1x Mystic Remora 1x Necropotence		
<b>Planeswalker (1)</b>		
1x Dack Fayden		
<b>Creature (5)</b>		
1x Baral, Chief of Compliance 1x Dark Confidant 1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Notion Thief		
		<b>Artifact (16)</b>
		1x Aetherflux Reservoir 1x Candelabra of Tawnos 1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Izzet Signet 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance

### 4.31 Kraum's MANly Combo

Deck Link: <http://tappedout.net/mtg-decks/16-11-17-troll-deck/>

Discord Url: <https://discord.gg/9AwgYgs>

Author: Lilbrudder (<https://tappedout.net/users/Lilbrudder>)

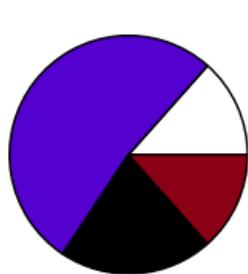
Commander(s): Kraum, Ludevic's Opus, Tymna the Weaver

Color: WUBR (W: 9 13.4% U: 35 52.2% B: 14 20.9% R: 9 13.4%)

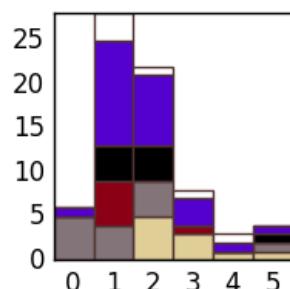
Avg. CMC: 1.80

Interaction Ratio: 0.63

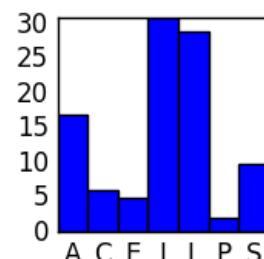
Cumulative CMC: 0: 0.08%, 1: 0.48%, 2: 0.79%, 3: 0.90%, 4: 0.94%, 5: 1.00%



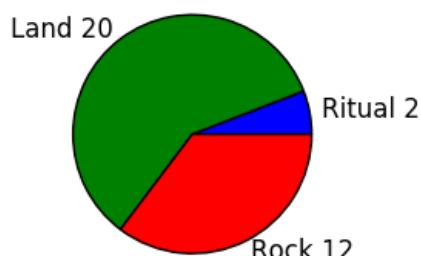
(a) Mana Pie



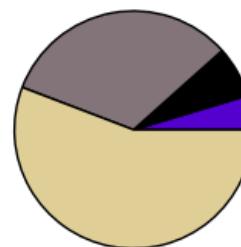
(b) CMC



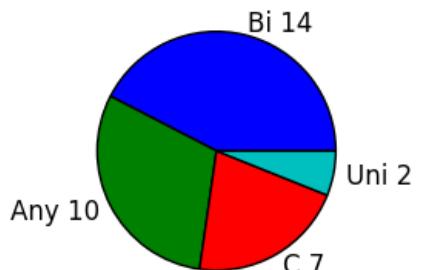
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 61: Kraum's MANly Combo

Decklist: Kraum's MANly Combo, Cockatrice Hash: fa3bb0a8

<b>Commander (2)</b>	<b>Instant (31)</b>	<b>Enchantment (5)</b>
1x Kraum, Ludevic's Opus	1x Ad Nauseam	1x Copy Artifact
1x Tymna the Weaver	1x Brainstorm	1x Mystic Remora
<b>Land (29)</b>	1x Chain of Vapor	1x Rest in Peace
1x Ancient Tomb	1x Cyclonic Rift	1x Rhystic Study
1x Arid Mesa	1x Dark Ritual	1x Smothering Tithe
1x Badlands	1x Delay	
1x Bloodstained Mire	1x Demonic Consultation	<b>Sorcery (10)</b>
1x City of Brass	1x Dispel	1x Demonic Tutor
1x Command Tower	1x Dovin's Veto	1x Gamble
1x Exotic Orchard	1x Dramatic Reversal	1x Gitaxian Probe
1x Flooded Strand	1x Enlightened Tutor	1x Imperial Seal
1x Forbidden Orchard	1x Fire Covenant	1x Ponder
1x Gemstone Caverns	1x Flusterstorm	1x Preordain
1x Hallowed Fountain	1x Force of Will	1x Rolling Earthquake
1x Island	1x Lim-Dûl's Vault	1x Timetwister
1x Mana Confluence	1x Mana Drain	1x Wheel of Fortune
1x Marsh Flats	1x Mental Misstep	1x Winds of Change
1x Misty Rainforest	1x Mystical Tutor	
1x Morphic Pool	1x Narset's Reversal	<b>Artifact (17)</b>
1x Plateau	1x Opt	1x Chrome Mox
1x Polluted Delta	1x Pact of Negation	1x Cursed Totem
1x Scalding Tarn	1x Plunge into Darkness	1x Fellwar Stone
1x Scrubland	1x Pyroblast	1x Grafdigger's Cage
1x Snow-Covered Island	1x Red Elemental Blast	1x Grim Monolith
1x Steam Vents	1x Silence	1x Isochron Scepter
1x Tundra	1x Swan Song	1x Lotus Petal
1x Underground River	1x Swords to Plowshares	1x Mana Crypt
1x Underground Sea	1x Tainted Pact	1x Mana Vault
1x Verdant Catacombs	1x Vampiric Tutor	1x Mox Diamond
1x Volcanic Island	1x Wear // Tear	1x Mox Opal
1x Watery Grave	1x Winds of Rebuke	1x Paradox Engine
1x Windswept Heath		1x Sensei's Divining Top
<b>Planeswalker (2)</b>		1x Sol Ring
1x Jace, Wielder of Mysteries		1x Talisman of Dominance
1x Narset, Parter of Veils		1x Talisman of Indulgence
		1x Talisman of Progress
		<b>Creature (4)</b>
		1x Aven Mindcensor
		1x Dark Confidant
		1x Gilded Drake
		1x Notion Thief

### 4.32 Mad Farm

Deck Link: <http://tappedout.net/mtg-decks/mad-farm/>

Discord Url: N/A

Author: RiverMayCry (<https://tappedout.net/users/RiverMayCry>)

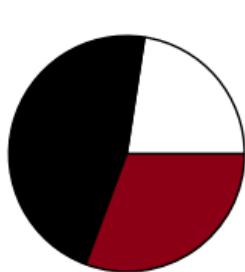
Commander(s): Bruse Tarl, Boorish Herder, Tymna the Weaver

Color: WBR (W: 14 22.6% B: 29 46.8% R: 19 30.6%)

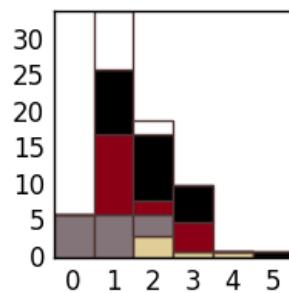
Avg. CMC: 1.56

Interaction Ratio: 0.46

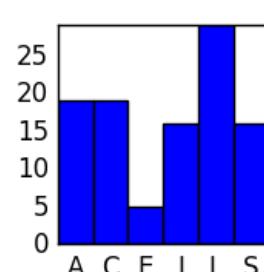
Cumulative CMC: 0: 0.08%, 1: 0.56%, 2: 0.83%, 3: 0.97%, 4: 0.99%, 5: 1.00%



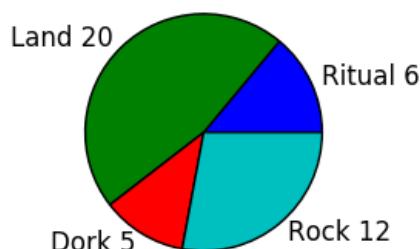
(a) Mana Pie



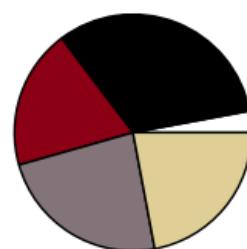
(b) CMC



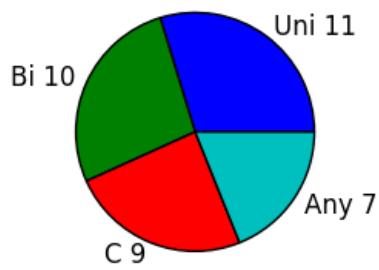
(c) Card Type



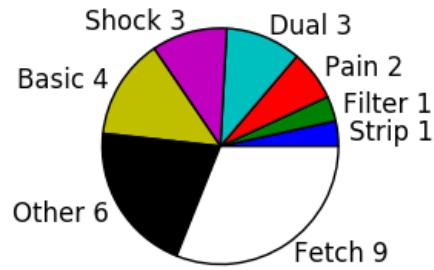
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 62: Mad Farm

Decklist: Mad Farm, Cockatrice Hash: t3fk35mb

<b>Commander (2)</b>	<b>Instant (16)</b>	<b>Sorcery (16)</b>
1x Bruse Tarl, Boorish Herder	1x Ad Nauseam	1x Cabal Therapy
1x Tymna the Weaver	1x Angel's Grace	1x Demonic Tutor
<b>Land (29)</b>	1x Cabal Ritual	1x Diabolic Intent
1x Ancient Tomb	1x Culling the Weak	1x Faithless Looting
1x Arid Mesa	1x Dark Ritual	1x Fragmentize
1x Badlands	1x Enlightened Tutor	1x Gamble
1x Blood Crypt	1x Entomb	1x Imperial Seal
1x Bloodstained Mire	1x Pyroblast	1x Infernal Plunge
1x Boseiju, Who Shelters All	1x Rain of Filth	1x Praetor's Grasp
1x Cavern of Souls	1x Red Elemental Blast	1x Rite of Flame
1x Command Tower	1x Rending Volley	1x Sickening Dreams
1x Fetid Heath	1x Seething Song	1x Thoughtseize
1x Flooded Strand	1x Silence	1x Twinflame
1x Gemstone Caverns	1x Swords to Plowshares	1x Vandalblast
1x Godless Shrine	1x Tainted Pact	1x Wheel of Fortune
1x Marsh Flats	1x Vampiric Tutor	1x Yawgmoth's Will
1x Phyrexian Tower	<b>Enchantment (5)</b>	<b>Artifact (15)</b>
1x Plateau	1x Animate Dead	1x Chrome Mox
1x Polluted Delta	1x Dance of the Dead	1x Fellwar Stone
1x Sacred Foundry	1x Goblin Bombardment	1x Grim Monolith
1x Scalding Tarn	1x Necromancy	1x Lotus Petal
1x Scrubland	1x Necropotence	1x Mana Crypt
1x Snow-Covered Mountain		1x Mana Vault
1x Snow-Covered Plains		1x Mox Diamond
1x Snow-Covered Swamp		1x Mox Opal
1x Strip Mine		1x Nihil Spellbomb
1x Swamp		1x Orzhov Signet
1x Urborg, Tomb of Yawgmoth		1x Rakdos Signet
1x Vault of Whispers		1x Scroll Rack
1x Verdant Catacombs		1x Sensei's Divining Top
1x Windswept Heath		1x Sol Ring
1x Wooded Foothills		1x Talisman of Indulgence
		<b>Creature (17)</b>
		1x Blood Pet
		1x Children of Korlis
		1x Dark Confidant
		1x Dualcaster Mage
		1x Gorilla Shaman
		1x Grand Abolisher
		1x Hope of Ghirapur
		1x Insolent Neonate
		1x Leonin Relic-Warder
		1x Memnite
		1x Myr Moonvessel
		1x Overeager Apprentice
		1x Serra Ascendant
		1x Simian Spirit Guide
		1x Skirk Prospector
		1x Weathered Wayfarer

### 4.33 Melt Banana

Deck Link: <http://tappedout.net/mtg-decks/melt-banana/>

Discord Url: N/A

Author: JimWolfie (<https://tappedout.net/users/JimWolfie>)

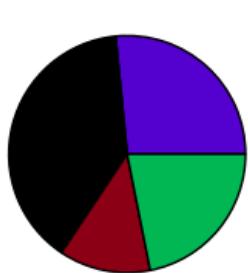
Commander(s): Yidris, Maelstrom Wielder

Color: UBRG (U: 17 26.6% B: 25 39.1% R: 8 12.5% G: 14 21.9%)

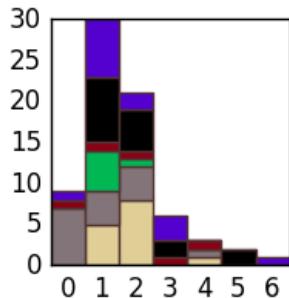
Avg. CMC: 1.64

Interaction Ratio: 0.54

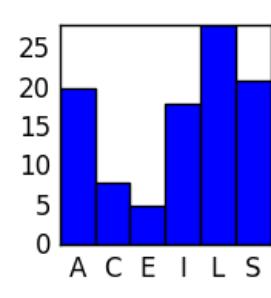
Cumulative CMC: 0: 0.12%, 1: 0.54%, 2: 0.83%, 3: 0.92%, 4: 0.96%, 5: 0.99%, 6: 1.00%



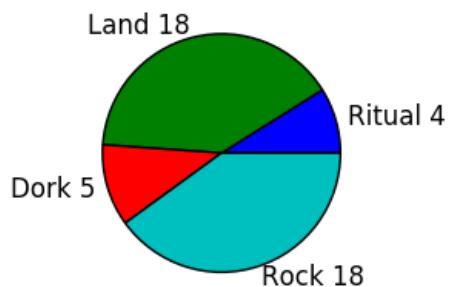
(a) Mana Pie



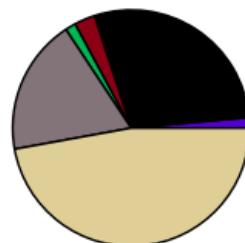
(b) CMC



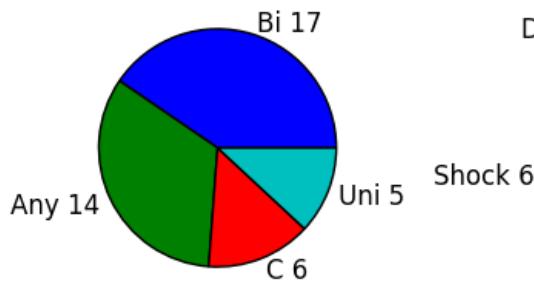
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 63: Melt Banana

Decklist: Melt Banana, Cockatrice Hash: 5ivvevam

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<b>Commander (1)</b>	<b>Instant (18)</b>	<b>Sorcery (21)</b>
1x Yidris, Maelstrom Wielder	1x Abrade 1x Abrupt Decay 1x Ad Nauseam 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Culling the Weak 1x Dark Ritual 1x Dramatic Reversal 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Manamorphose 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Rain of Filth 1x Vampiric Tutor	1x Ancestral Vision 1x Dark Petition 1x Demonic Tutor 1x Diabolic Intent 1x Duress 1x Gamble 1x Gitaxian Probe 1x Grim Tutor 1x Imperial Seal 1x Inquisition of Kozilek 1x Mind's Desire 1x Past in Flames 1x Ponder 1x Preordain 1x Summer Bloom 1x Thoughtseize 1x Timetwister 1x Wheel of Fate 1x Wheel of Fortune 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>	<b>Creature (7)</b>	<b>Artifact (20)</b>
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Bayou 1x Blood Crypt 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Lake of the Dead 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Scalding Tarn 1x Steam Vents 1x Stomping Ground 1x Taiga 1x Tropical Island 1x Underground Sea 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills	1x Birds of Paradise 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Orcish Lumberjack 1x Tinder Wall 1x Wild Cantor	1x Aether Spellbomb 1x Aetherflux Reservoir 1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Golgari Signet 1x Grim Monolith 1x Helm of Awakening 1x Isochron Scepter 1x Lion's Eye Diamond 1x Lotus Bloom 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Impulse
<b>Enchantment (5)</b>		
1x Carpet of Flowers 1x Exploration 1x Mystic Remora 1x Squandered Resources 1x Waste Not		

### 4.34 Meta Pod

Deck Link: <http://tappedout.net/mtg-decks/meta-pod/>

Discord Url: <https://discord.gg/q7Ehb9d>

Author: infiniteimoc (<https://tappedout.net/users/infiniteimoc>)

Commander(s): Tana, the Bloodsower, Tymna the Weaver

Color: WBRG (W: 19 22.9% B: 18 21.7% R: 17 20.5% G: 29 34.9%)

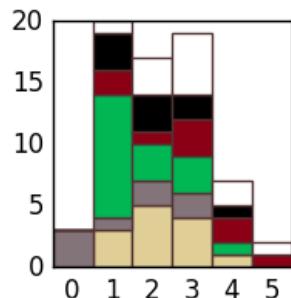
Avg. CMC: 2.19

Interaction Ratio: 0.34

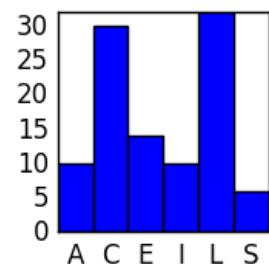
Cumulative CMC: 0: 0.04%, 1: 0.34%, 2: 0.59%, 3: 0.87%, 4: 0.97%, 5: 1.00%



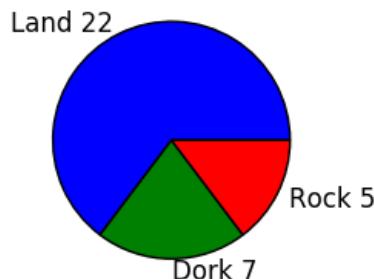
(a) Mana Pie



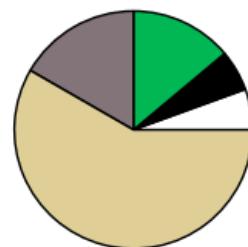
(b) CMC



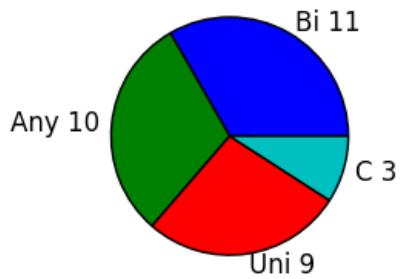
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 64: Meta Pod

Decklist: Meta Pod, Cockatrice Hash: lobac033

<b>Commander (2)</b>	<b>Instant (10)</b>	<b>Artifact (9)</b>
1x Tana, the Bloodsower	1x Abrupt Decay	1x Birthing Pod
1x Tymna the Weaver	1x Assassin's Trophy	1x Chrome Mox
	1x Eladamri's Call	1x Mana Crypt
	1x Enlightened Tutor	1x Mox Diamond
<b>Land (32)</b>	1x Fire Covenant	1x Null Rod
1x Ancient Tomb	1x Noxious Revival	1x Sol Ring
1x Arid Mesa	1x Pyroblast	1x Sphere of Resistance
1x Badlands	1x Red Elemental Blast	1x Tangle Wire
1x Bayou	1x Vampiric Tutor	1x Trinisphere
1x Bloodstained Mire	1x Zealous Persecution	
1x City of Brass		
1x Command Tower		
1x Flooded Strand	<b>Enchantment (13)</b>	<b>Creature (28)</b>
1x Forbidden Orchard	1x Aura of Silence	1x Anafenza, the Foremost
2x Forest	1x Blood Moon	1x Arbor Elf
1x Gaea's Cradle	1x Carpet of Flowers	1x Avacyn's Pilgrim
1x Godless Shrine	1x Leyline of the Void	1x Aven Mindcensor
1x Horizon Canopy	1x Necromancy	1x Azra Oddsmaker
1x Mana Confluence	1x Root Maze	1x Birds of Paradise
1x Marsh Flats	1x Rule of Law	1x Bloom Tender
1x Misty Rainforest	1x Splinter Twin	1x Dark Confidant
1x Overgrown Tomb	1x Stony Silence	1x Deathrite Shaman
1x Plains	1x Stranglehold	1x Eidolon of Rhetoric
1x Plateau	1x Survival of the Fittest	1x Elves of Deep Shadow
1x Polluted Delta	1x Sylvan Library	1x Elvish Mystic
1x Savannah	1x Wild Growth	1x Ethersworn Canonist
1x Scalding Tarn		1x Felidar Guardian
1x Scrubland		1x Fyndhorn Elves
1x Stomping Ground	<b>Sorcery (6)</b>	1x Goblin Sharpshooter
1x Swamp	1x Buried Alive	1x Karmic Guide
1x Taiga	1x Demonic Tutor	1x Kiki-Jiki, Mirror Breaker
1x Tarnished Citadel	1x Diabolic Intent	1x Linvala, Keeper of Silence
1x Temple Garden	1x Eldritch Evolution	1x Llanowar Elves
1x Verdant Catacombs	1x Imperial Seal	1x Loyal Apprentice
1x Windswept Heath	1x Reanimate	1x Magus of the Moon
1x Wooded Foothills		1x Quirion Ranger
		1x Runic Armasaur
		1x Thalia, Guardian of Thraben
		1x Vexing Shusher
		1x Village Bell-Ringer
		1x Yisan, the Wanderer Bard

### 4.35 Midrange Yisan

Deck Link: <https://tappedout.net/mtg-decks/wanderers-song/>

Discord Url: <https://discord.gg/ukqBA8U>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

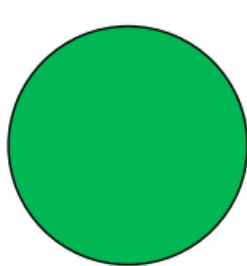
Commander(s): Yisan, the Wanderer Bard

Color: G (G: 65 100.0%)

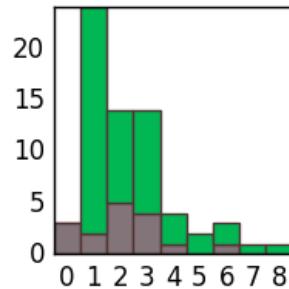
Avg. CMC: 2.32

Interaction Ratio: 0.24

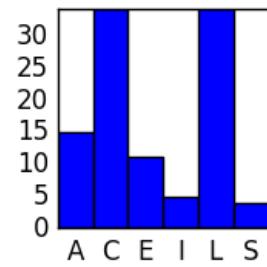
Cumulative CMC: 0: 0.05%, 1: 0.41%, 2: 0.62%, 3: 0.83%, 4: 0.89%, 5: 0.92%, 6: 0.97%, 7: 0.98%, 8: 1.00%



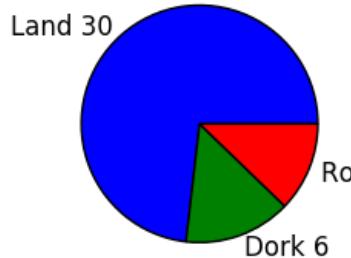
(a) Mana Pie



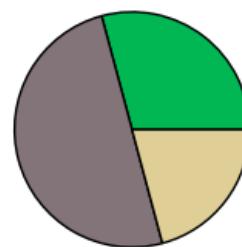
(b) CMC



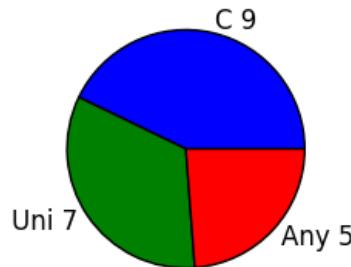
(c) Card Type



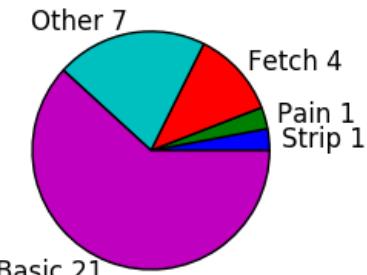
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 65: Midrange Yisan

Decklist: Midrange Yisan, Cockatrice Hash: h52nrl7g

<b>Commander (1)</b>	<b>Sorcery (4)</b>	<b>Creature (32)</b>
1x Yisan, the Wanderer Bard	1x Finale of Devastation 1x Green Sun's Zenith 1x Natural Order 1x Sylvan Scrying	1x Arbor Elf 1x Azusa, Lost but Seeking 1x Bane of Progress 1x Birds of Paradise 1x Boreal Druid 1x Caustic Caterpillar 1x Craterhoof Behemoth 1x Duplicant 1x Elvish Mystic 1x Eternal Witness 1x Fyndhorn Elves 1x Karametra's Acolyte 1x Kraul Harpooner 1x Llanowar Elves 1x Manglehorn 1x Phyrexian Revoker 1x Priest of Titania 1x Quirion Ranger 1x Ravenous Slime 1x Reclamation Sage 1x Regal Force 1x Runic Armasaur 1x Sakura-Tribe Scout 1x Scavenging Ooze 1x Scryb Ranger 1x Seedborn Muse 1x Somberwald Stag 1x Sylvan Safekeeper 1x Temur Sabertooth 1x Thought-Knot Seer 1x Wirewood Symbiote 1x Woodland Bellower
<b>Land (34)</b>		
1x Ancient Tomb 1x Cavern of Souls 1x Dryad Arbor 1x Gaea's Cradle 1x Gemstone Caverns 1x Misty Rainforest 1x Mouth of Ronom 1x Nykthos, Shrine to Nyx 21x Snow-Covered Forest 1x Strip Mine 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Hollow		
<b>Instant (5)</b>	<b>Artifact (13)</b>	
1x Beast Within 1x Chord of Calling 1x Crop Rotation 1x Nature's Claim 1x Worldly Tutor	1x Chrome Mox 1x Mana Crypt 1x Mox Diamond 1x Null Rod 1x Sensei's Divining Top 1x Sol Ring 1x Sphere of Resistance 1x Staff of Domination 1x Tangle Wire 1x Thorn of Amethyst 1x Trinisphere 1x Umbral Mantle 1x Winter Orb	
<b>Enchantment (11)</b>		
1x Burgeoning 1x Carpet of Flowers 1x Exploration 1x Lignify 1x Mirri's Guile 1x Root Maze 1x Song of the Dryads 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth		

#### 4.36 Mimeo Reanimator Hulk

Deck Link: <http://tappedout.net/mtg-decks/19-09-16-the-mimeoplasm-edh/>

Discord Url: <https://discord.gg/zsePv5T>

Author: monkeryz (<https://tappedout.net/users/monkeryz>)

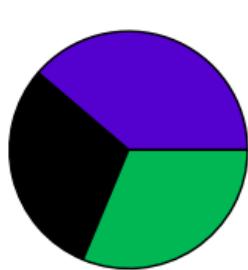
Commander(s): The Mimeoplasm

Color: UBG (U: 31 38.8% B: 24 30.0% G: 25 31.2%)

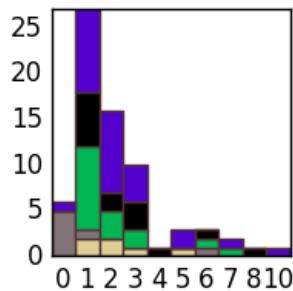
Avg. CMC: 2.26

Interaction Ratio: 0.53

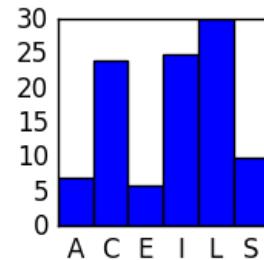
Cumulative CMC: 0: 0.09%, 1: 0.47%, 2: 0.70%, 3: 0.84%, 4: 0.86%, 5: 0.90%, 6: 0.94%, 7: 0.97%, 8: 0.99%, 10: 1.00%



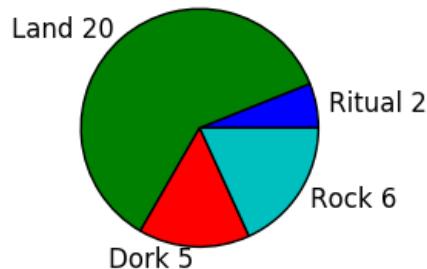
(a) Mana Pie



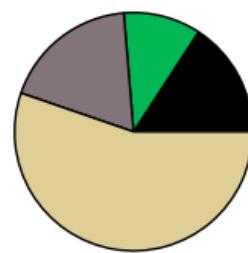
(b) CMC



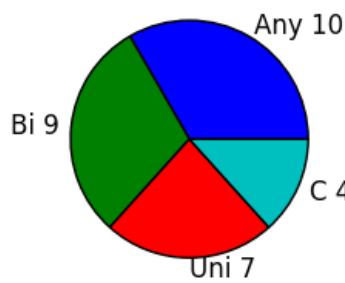
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 66: Mimeo Reanimator Hulk

Decklist: Mimeo Reanimator Hulk, Cockatrice Hash: pi8gps9s

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<b>Commander (1)</b>	<b>Instant (25)</b>	<b>Sorcery (10)</b>
1x The Mimeoplasm	1x Abrupt Decay 1x Assassin's Trophy 1x Brainstorm 1x Chain of Vapor 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Entomb 1x Flash 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Intuition 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Natural State 1x Nature's Claim 1x Negate 1x Noxious Revival 1x Pact of Negation 1x Swan Song 1x Vampiric Tutor 1x Winds of Rebuke 1x Worldly Tutor	1x Buried Alive 1x Careful Study 1x Demonic Tutor 1x Imperial Seal 1x Life // Death 1x Ponder 1x Reanimate 1x Regrowth 1x Toxic Deluge 1x Windfall
<b>Land (30)</b>		<b>Creature (23)</b>
1x Ancient Tomb 1x Bayou 1x Bazaar of Baghdad 1x Bloodstained Mire 1x Breeding Pool 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Forbidden Orchard 3x Forest 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Overgrown Tomb 1x Polluted Delta 1x Scalding Tarn 1x Swamp 1x Tropical Island 1x Underground Sea 1x Urborg, Tomb of Yawgmoth		1x Arbor Elf 1x Bane of Progress 1x Birds of Paradise 1x Body Double 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Spirit Guide 1x Eternal Witness 1x Fyndhorn Elves 1x Gilded Drake 1x Jace, Vryn's Prodigy 1x Jin-Gitaxias, Core Augur 1x Llanowar Elves 1x Mikaeus, the Unhallowed 1x Necrotic Ooze 1x Nezahal, Primal Tide 1x Phyrexian Devourer 1x Protean Hulk 1x Razaketh, the Foulblooded 1x Snapcaster Mage 1x Spellseeker 1x Viscera Seer 1x Walking Ballista
<b>Artifact (5)</b>	<b>Enchantment (6)</b>	
1x Chrome Mox 1x Lion's Eye Diamond 1x Mana Crypt 1x Mox Diamond 1x Sol Ring	1x Animate Dead 1x Carpet of Flowers 1x Mystic Remora 1x Necromancy 1x Survival of the Fittest 1x Sylvan Library	

### 4.37 Momir Hackball

Deck Link: <https://tappedout.net/mtg-decks/hackball-momir-vig-primer-wip/>

Discord Url: <https://discord.gg/K7AUzH4>

Author: AverageDragon (<https://tappedout.net/users/AverageDragon>)

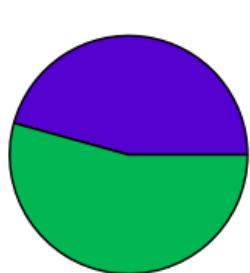
Commander(s): Momir Vig, Simic Visionary

Color: UG (U: 32 45.7% G: 38 54.3%)

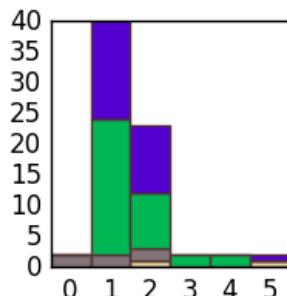
Avg. CMC: 1.55

Interaction Ratio: 0.58

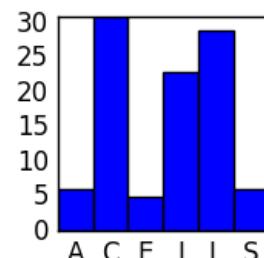
Cumulative CMC: 0: 0.03%, 1: 0.59%, 2: 0.92%, 3: 0.94%, 4: 0.97%, 5: 1.00%



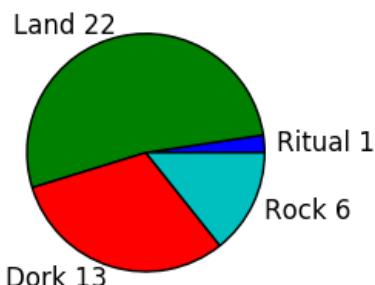
(a) Mana Pie



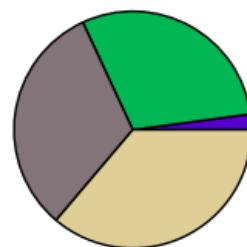
(b) CMC



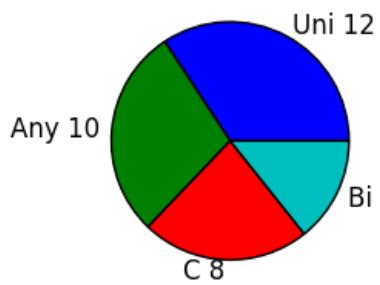
(c) Card Type



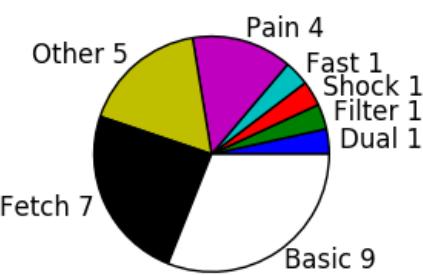
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 67: Momir Hackball

Decklist: Momir Hackball, Cockatrice Hash: d22ds6i2

<b>Commander (1)</b>	<b>Instant (23)</b>	<b>Creature (30)</b>
1x Momir Vig, Simic Visionary	1x Alter Reality 1x Brainstorm 1x Crop Rotation 1x Delay 1x Dispel 1x Flusterstorm 1x Force of Will 1x Glamerdye 1x Mana Drain 1x Mana Leak 1x Mental Misstep 1x Mind Bend 1x Mystical Tutor 1x Nature's Claim 1x Negate 1x Pongify 1x Sleight of Mind 1x Spectral Shift 1x Spell Pierce 1x Swan Song 1x Whim of Volrath 1x Winds of Rebuke 1x Worldly Tutor	1x Arbor Elf 1x Birchlore Rangers 1x Birds of Paradise 1x Boreal Druid 1x Caustic Caterpillar 1x Devoted Druid 1x Elvish Mystic 1x Fyndhorn Elves 1x Gilded Drake 1x Heart Warden 1x Heritage Druid 1x Joraga Treespeaker 1x Kiora's Follower 1x Llanowar Elves 1x Nantuko Tracer 1x Nettle Sentinel 1x Phantasmal Image 1x Priest of Titania 1x Quirion Ranger 1x Reclamation Sage 1x Riftsweeper 1x Scavenging Ooze 1x Sidisi's Faithful 1x Somberwald Sage 1x Sylvan Safekeeper 1x Temur Sabertooth 1x Vizier of the Menagerie 1x Voyaging Satyr 1x Wall of Roots 1x Wirewood Symbiote
<b>Land (29)</b>		
1x Ancient Tomb 1x Botanical Sanctum 1x Breeding Pool 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Flooded Grove 1x Flooded Strand 1x Forbidden Orchard 5x Forest 1x Gaea's Cradle 1x Gemstone Caverns 4x Island 1x Mana Confluence 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Tropical Island 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		
<b>Enchantment (5)</b>		
1x Carpet of Flowers 1x Mystic Remora 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	1x Chrome Mox 1x Grim Monolith 1x Mana Crypt 1x Mana Vault 1x Null Rod 1x Sol Ring	
<b>Sorcery (6)</b>		
1x Glimpse of Nature 1x Green Sun's Zenith 1x Merchant Scroll 1x Ponder 1x Preordain 1x Trait Doctoring		

#### 4.38 Najeela Hermit Hulk

Deck Link: <https://deckstats.net/decks/50436/1091682-najeela-druid-hulk/>

Discord Url: <https://discord.gg/eFed3Yg>

Author: frozeninfate (<https://deckstats.net/decks/50436/?lng=en>)

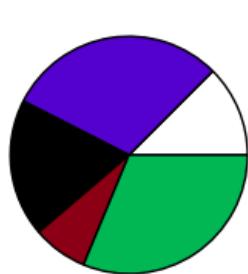
Commander(s): Najeela, the Blade-Blossom

Color: WUBRG (W: 10 12.5% U: 24 30.0% B: 15 18.8% R: 6 7.5% G: 25 31.2%)

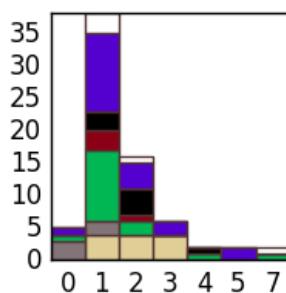
Avg. CMC: 1.69

Interaction Ratio: 0.52

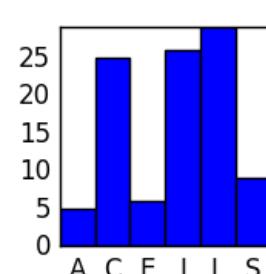
Cumulative CMC: 0: 0.07%, 1: 0.61%, 2: 0.83%, 3: 0.92%, 4: 0.94%, 5: 0.97%, 7: 1.00%



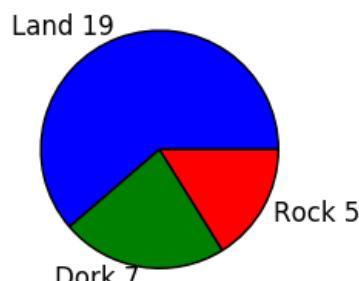
(a) Mana Pie



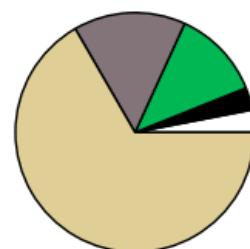
(b) CMC



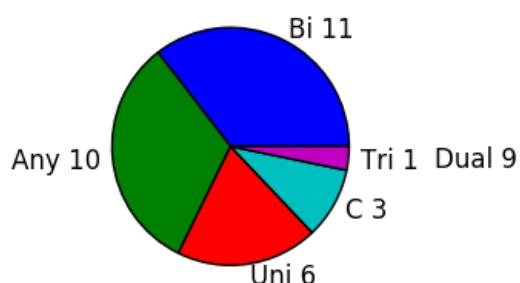
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 68: Najeela Hermit Hulk

Decklist: Najeela Hermit Hulk, Cockatrice Hash: vk9h7q1d

<b>Commander (1)</b>	<b>Instant (26)</b>	<b>Sorcery (9)</b>
1x Najeela, the Blade-Blossom	1x Abrupt Decay 1x Assassin's Trophy 1x Brainstorm 1x Chain of Vapor 1x Dispel 1x Eladamri's Call 1x Enlightened Tutor 1x Fire Covenant 1x Flash 1x Flusterstorm 1x Force of Will 1x Lim-Dûl's Vault 1x Mental Misstep 1x Misdirection 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Pyroblast 1x Red Elemental Blast 1x Silence 1x Spell Pierce 1x Summoner's Pact 1x Swan Song 1x Vampiric Tutor 1x Worldly Tutor	1x Cabal Therapy 1x Demonic Tutor 1x Diabolic Intent 1x Dread Return 1x Gamble 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Preordain
<b>Land (29)</b>		<b>Artifact (5)</b>
1x Arid Mesa 1x Badlands 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gaea's Cradle 1x Gemstone Caverns 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Scrubland 1x Taiga 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Windswept Heath 1x Wooded Foothills	1x Chrome Mox 1x Mana Crypt 1x Mox Diamond 1x Skullclamp 1x Sol Ring	
		<b>Creature (24)</b>
		1x Angel of Glory's Rise 1x Arbor Elf 1x Avacyn's Pilgrim 1x Birds of Paradise 1x Cephalid Illusionist 1x Dark Confidant 1x Deathrite Shaman 1x Derevi, Empyrial Tactician 1x Elves of Deep Shadow 1x Elvish Mystic 1x Fyndhorn Elves 1x Gilded Drake 1x Grand Abolisher 1x Hermit Druid 1x Laboratory Maniac 1x Lightning Mauler 1x Llanowar Elves 1x Mindblade Render 1x Narcomoeba 1x Noble Hierarch 1x Nomads en-Kor 1x Protean Hulk 1x Spellseeker 1x Tymna the Weaver
		<b>Enchantment (6)</b>
	1x Carpet of Flowers 1x Mystic Remora 1x Nature's Will 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	

### 4.39 Najeela Tempo

Deck Link: <https://tappedout.net/mtg-decks/warrior-queen-najeela-midrangetempo-cedh-primer/>  
 Discord Url: <https://discord.gg/eFed3Yg>

Author: Pongo\_Pygmaeu5 ([https://tappedout.net/users/Pongo\\_Pygmaeu5](https://tappedout.net/users/Pongo_Pygmaeu5))

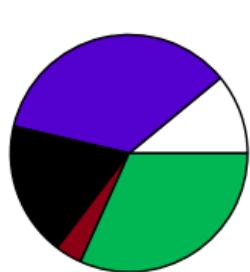
Commander(s): Najeela, the Blade-Blossom

Color: WUBRG (W: 9 11.0% U: 29 35.4% B: 15 18.3% R: 3 3.7% G: 26 31.7%)

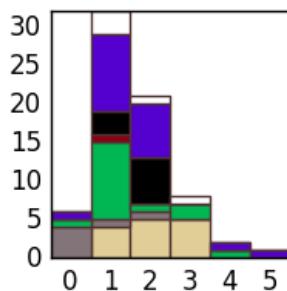
Avg. CMC: 1.59

Interaction Ratio: 0.64

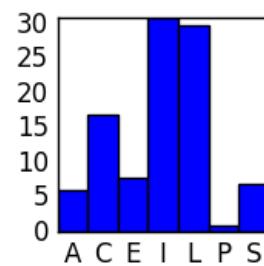
Cumulative CMC: 0: 0.09%, 1: 0.54%, 2: 0.84%, 3: 0.96%, 4: 0.99%, 5: 1.00%



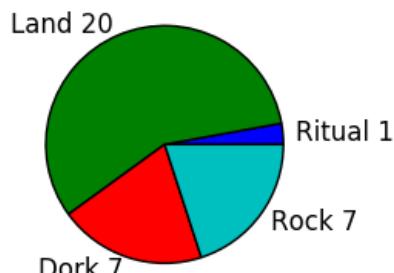
(a) Mana Pie



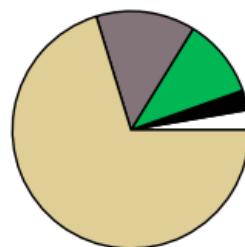
(b) CMC



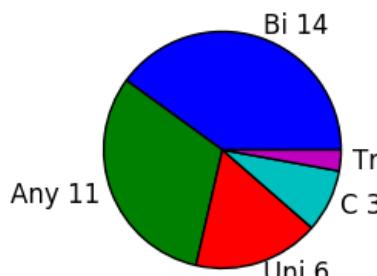
(c) Card Type



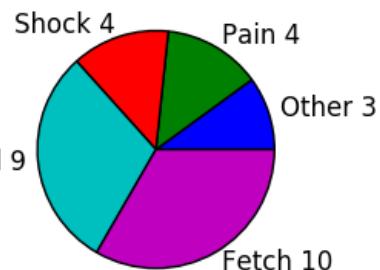
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 69: Najeela Tempo

Decklist: Najeela Tempo, Cockatrice Hash: 8gqefrkr

<b>Commander (1)</b>	<b>Instant (31)</b>	<b>Enchantment (8)</b>
1x Najeela, the Blade-Blossom	1x Abrupt Decay 1x Assassin's Trophy 1x Brainstorm 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Demonic Consultation 1x Dispel 1x Dovin's Veto 1x Eladamri's Call 1x Enlightened Tutor 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Narset's Reversal 1x Nature's Claim 1x Negate 1x Noxious Revival 1x Pact of Negation 1x Plunge into Darkness 1x Pyroblast 1x Silence 1x Summoner's Pact 1x Swan Song 1x Swords to Plowshares 1x Tainted Pact 1x Vampiric Tutor	1x Carpet of Flowers 1x Druids' Repository 1x Mystic Remora 1x Nature's Will 1x Rest in Peace 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth
<b>Land (30)</b>		<b>Sorcery (7)</b>
1x Arid Mesa 1x Badlands 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Gaea's Cradle 1x Hallowed Fountain 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Scrubland 1x Taiga 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		1x Demonic Tutor 1x Diabolic Intent 1x Eldritch Evolution 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Preordain
<b>Planeswalker (1)</b>		<b>Artifact (6)</b>
1x Jace, Wielder of Mysteries		1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mox Diamond 1x Null Rod 1x Sol Ring
		<b>Creature (16)</b>
		1x Arbor Elf 1x Avacyn's Pilgrim 1x Aven Mindcensor 1x Birds of Paradise 1x Dark Confidant 1x Deathrite Shaman 1x Derevi, Empyrial Tactician 1x Edric, Spymaster of Trest 1x Elves of Deep Shadow 1x Elvish Mystic 1x Fyndhorn Elves 1x Gilded Drake 1x Llanowar Elves 1x Mindblade Render 1x Noble Hierarch 1x Tymna the Weaver

#### 4.40 Nooze Reanimator

Deck Link: <http://tappedout.net/mtg-decks/4c-necrotic-ooze-brewsday-112216/>

Discord Url: <https://discord.gg/YGsZTu>

Author: infiniteimoc (<https://tappedout.net/users/infiniteimoc>)

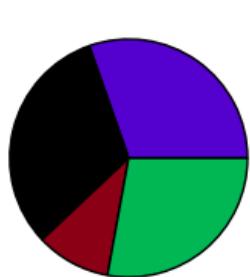
Commander(s): Thrasios, Triton Hero, Vial Smasher the Fierce

Color: UBRG (U: 24 30.4% B: 25 31.6% R: 8 10.1% G: 22 27.8%)

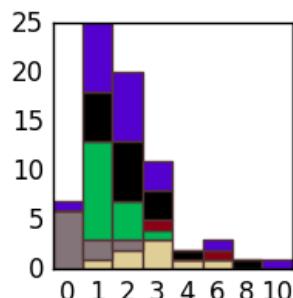
Avg. CMC: 2.03

Interaction Ratio: 0.50

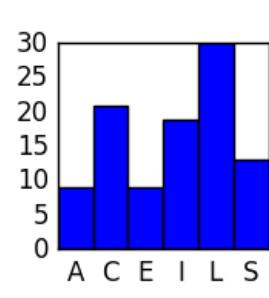
Cumulative CMC: 0: 0.10%, 1: 0.46%, 2: 0.74%, 3: 0.90%, 4: 0.93%, 6: 0.97%, 8: 0.99%, 10: 1.00%



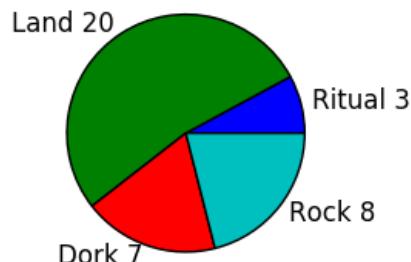
(a) Mana Pie



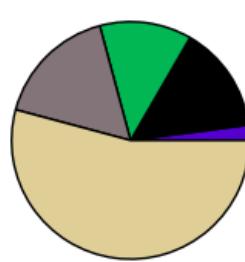
(b) CMC



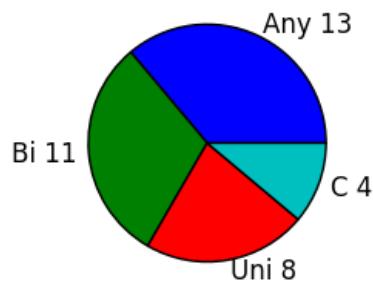
(c) Card Type



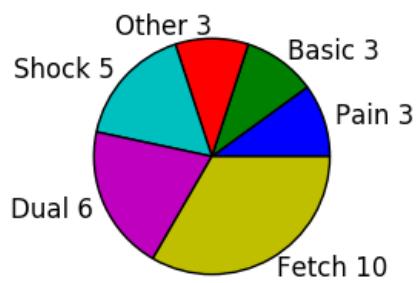
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 70: Nooze Reanimator

Decklist: Nooze Reanimator, Cockatrice Hash: 3buvi2e

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<b>Commander (2)</b>	<b>Instant (19)</b>	<b>Sorcery (13)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Buried Alive
1x Vial Smasher the Fierce	1x Brainstorm	1x Demonic Tutor
	1x Cabal Ritual	1x Exhume
<b>Land (30)</b>	1x Dark Ritual	1x Gitaxian Probe
1x Arid Mesa	1x Delay	1x Imperial Seal
1x Badlands	1x Dramatic Reversal	1x Life // Death
1x Bayou	1x Entomb	1x Ponder
1x Bloodstained Mire	1x Fire Covenant	1x Preordain
1x Breeding Pool	1x Frantic Search	1x Reanimate
1x City of Brass	1x Mana Drain	1x Timetwister
1x Command Tower	1x Mystical Tutor	1x Toxic Deluge
1x Flooded Strand	1x Nature's Claim	1x Wheel of Fortune
1x Forbidden Orchard	1x Negate	1x Windfall
1x Forest	1x Noxious Revival	
1x Gaea's Cradle	1x Pact of Negation	<b>Artifact (8)</b>
1x Island	1x Reality Shift	1x Chrome Mox
1x Mana Confluence	1x Swan Song	1x Isochron Scepter
1x Marsh Flats	1x Vampiric Tutor	1x Lion's Eye Diamond
1x Misty Rainforest	1x Winds of Rebuke	1x Lotus Petal
1x Overgrown Tomb		1x Mana Crypt
1x Polluted Delta	<b>Enchantment (9)</b>	1x Mana Vault
1x Scalding Tarn	1x Animate Dead	1x Mox Diamond
1x Steam Vents	1x Carpet of Flowers	1x Sol Ring
1x Stomping Ground	1x Dance of the Dead	
1x Swamp	1x Mystic Remora	<b>Creature (19)</b>
1x Taiga	1x Necromancy	1x Arbor Elf
1x Tarnished Citadel	1x Survival of the Fittest	1x Birds of Paradise
1x Tropical Island	1x Sylvan Library	1x Bloom Tender
1x Underground Sea	1x Utopia Sprawl	1x Consecrated Sphinx
1x Verdant Catacombs	1x Wild Growth	1x Dark Confidant
1x Volcanic Island		1x Deathrite Shaman
1x Watery Grave		1x Devoted Druid
1x Windswept Heath		1x Elvish Mystic
1x Wooded Foothills		1x Eternal Witness
		1x Fyndhorn Elves
		1x Jace, Vryn's Prodigy
		1x Jin-Gitaxias, Core Augur
		1x Llanowar Elves
		1x Morselhoarder
		1x Necrotic Ooze
		1x Notion Thief
		1x Razaketh, the Foulblooded
		1x Walking Ballista
		1x Worldgorger Dragon

#### 4.41 Opus Consultation

Deck Link: <https://tappedout.net/mtg-decks/opus-consultation/>

Discord Url: <https://discord.gg/MkPWY38>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

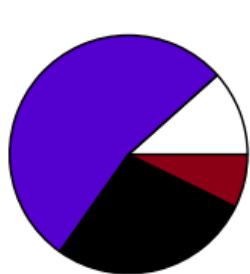
Commander(s): Kraum, Ludevic's Opus, Tymna the Weaver

Color: WUBR (W: 8 11.6% U: 37 53.6% B: 19 27.5% R: 5 7.2%)

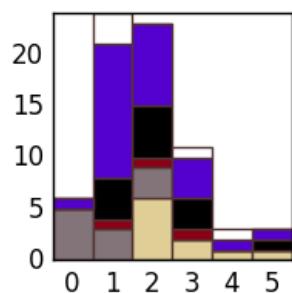
Avg. CMC: 1.86

Interaction Ratio: 0.64

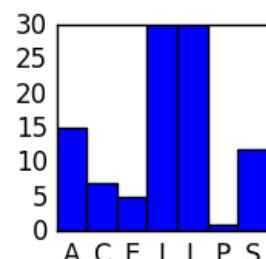
Cumulative CMC: 0: 0.09%, 1: 0.43%, 2: 0.76%, 3: 0.91%, 4: 0.96%, 5: 1.00%



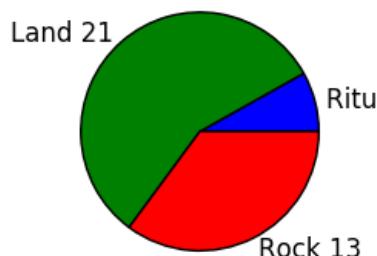
(a) Mana Pie



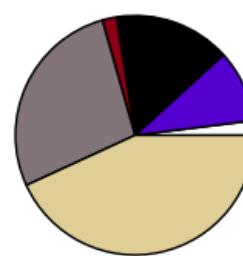
(b) CMC



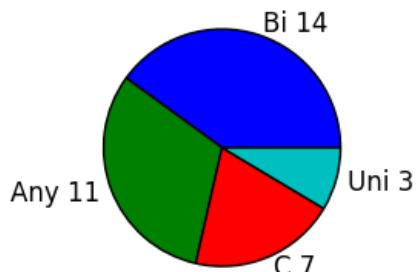
(c) Card Type



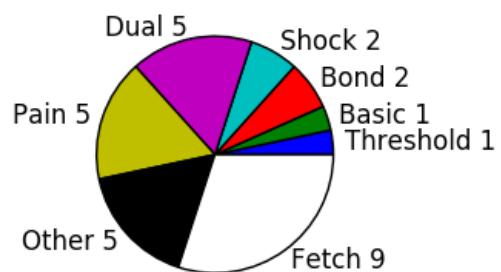
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 71: Opus Consultation

Decklist: Opus Consultation, Cockatrice Hash: jm2so40q

<b>Commander (2)</b>	<b>Instant (30)</b>	<b>Enchantment (5)</b>
1x Kraum, Ludevic's Opus	1x Ad Nauseam	1x Copy Artifact
1x Tymna the Weaver	1x Angel's Grace	1x Mystic Remora
<b>Land (30)</b>	1x Brainstorm	1x Necropotence
1x Ancient Tomb	1x Cabal Ritual	1x Rhystic Study
1x Arid Mesa	1x Chain of Vapor	1x Smothering Tithe
1x Badlands	1x Counterspell	
1x Bloodstained Mire	1x Cyclonic Rift	
1x Cephalid Coliseum	1x Dark Ritual	
1x City of Brass	1x Delay	
1x Command Tower	1x Demonic Consultation	
1x Exotic Orchard	1x Dispel	
1x Flooded Strand	1x Dovin's Veto	
1x Forbidden Orchard	1x Dramatic Reversal	
1x Gemstone Caverns	1x Enlightened Tutor	
1x Mana Confluence	1x Flusterstorm	
1x Marsh Flats	1x Force of Will	
1x Misty Rainforest	1x Lim-Dûl's Vault	
1x Morphic Pool	1x Mana Drain	
1x Polluted Delta	1x Mental Misstep	
1x Scalding Tarn	1x Mystical Tutor	
1x Scrubland	1x Narset's Reversal	
1x Sea of Clouds	1x Opt	
1x Snow-Covered Island	1x Pact of Negation	
1x Steam Vents	1x Plunge into Darkness	
1x Tarnished Citadel	1x Silence	
1x Tundra	1x Spell Pierce	
1x Underground River	1x Swan Song	
1x Underground Sea	1x Tainted Pact	
1x Urborg, Tomb of Yawgmoth	1x Vampiric Tutor	
1x Verdant Catacombs	1x Wear // Tear	
1x Volcanic Island		
1x Watery Grave		
1x Wooded Foothills		
<b>Planeswalker (1)</b>		
1x Jace, Wielder of Mysteries		
<b>Sorcery (12)</b>		
	1x Demon Tutor	
	1x Gitaxian Probe	
	1x Imperial Seal	
	1x Ponder	
	1x Preordain	
	1x Pyroclasm	
	1x Rolling Earthquake	
	1x Timetwister	
	1x Toxic Deluge	
	1x Wheel of Fortune	
	1x Windfall	
	1x Yawgmoth's Will	
<b>Artifact (15)</b>		
	1x Azorius Signet	
	1x Chrome Mox	
	1x Cursed Totem	
	1x Dimir Signet	
	1x Fellwar Stone	
	1x Grim Monolith	
	1x Izzet Signet	
	1x Lotus Petal	
	1x Mana Crypt	
	1x Mana Vault	
	1x Mox Diamond	
	1x Mox Opal	
	1x Sensei's Divining Top	
	1x Sol Ring	
	1x Talisman of Dominance	
<b>Creature (5)</b>		
	1x Aven Mindcensor	
	1x Dark Confidant	
	1x Gilded Drake	
	1x Laboratory Maniac	
	1x Notion Thief	

#### 4.42 Opus Thief

Deck Link: <http://tappedout.net/mtg-decks/opus-thief/>

Discord Url: <https://discord.gg/MkPWY38>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

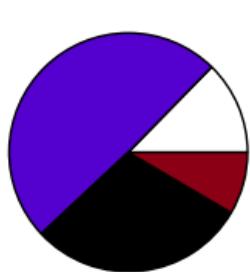
Commander(s): Kraum, Ludevic's Opus, Tymna the Weaver

Color: WUBR (W: 9 12.7% U: 35 49.3% B: 21 29.6% R: 6 8.5%)

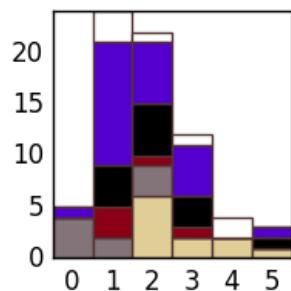
Avg. CMC: 1.93

Interaction Ratio: 0.57

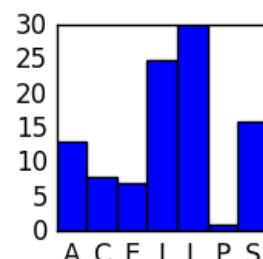
Cumulative CMC: 0: 0.07%, 1: 0.41%, 2: 0.73%, 3: 0.90%, 4: 0.96%, 5: 1.00%



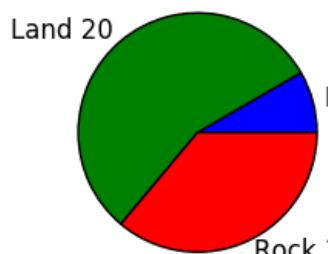
(a) Mana Pie



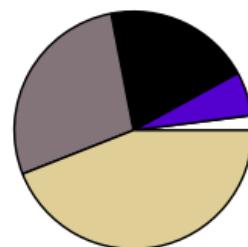
(b) CMC



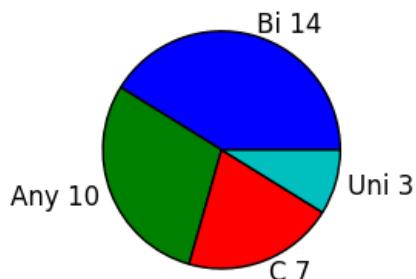
(c) Card Type



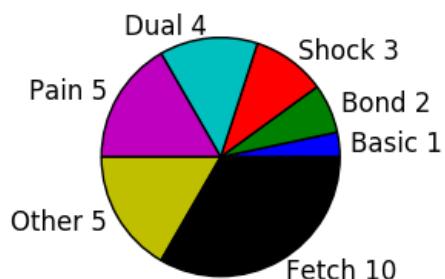
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 72: Opus Thief

Decklist: Opus Thief, Cockatrice Hash: ovirikbv

<b>Commander (2)</b>	<b>Instant (25)</b>	<b>Sorcery (16)</b>
1x Kraum, Ludevic's Opus	1x Ad Nauseam	1x Burning Inquiry
1x Tymna the Weaver	1x Angel's Grace	1x Demonic Tutor
 	1x Brainstorm	1x Gitaxian Probe
<b>Land (30)</b>	1x Cabal Ritual	1x Imperial Seal
1x Ancient Tomb	1x Chain of Vapor	1x Mnemonic Betrayal
1x Arid Mesa	1x Counterspell	1x Ponder
1x Badlands	1x Dark Ritual	1x Preordain
1x Bloodstained Mire	1x Delay	1x Pyroclasm
1x City of Brass	1x Demonic Consultation	1x Rolling Earthquake
1x Command Tower	1x Dispel	1x Timetwister
1x Exotic Orchard	1x Dovin's Veto	1x Toxic Deluge
1x Flooded Strand	1x Enlightened Tutor	1x Wheel of Fortune
1x Forbidden Orchard	1x Flusterstorm	1x Whispering Madness
1x Gemstone Caverns	1x Force of Will	1x Windfall
1x Hallowed Fountain	1x Lim-Dûl's Vault	1x Winds of Change
1x Mana Confluence	1x Mana Drain	1x Yawgmoth's Will
1x Marsh Flats	1x Mental Misstep	
1x Misty Rainforest	1x Mystical Tutor	
1x Morphic Pool	1x Narset's Reversal	
1x Polluted Delta	1x Pact of Negation	
1x Scalding Tarn	1x Silence	
1x Sea of Clouds	1x Spell Pierce	
1x Snow-Covered Island	1x Swan Song	
1x Steam Vents	1x Tainted Pact	
1x Tarnished Citadel	1x Vampiric Tutor	
1x Tundra		
1x Underground River	 <b>Enchantment (7)</b>	
1x Underground Sea	1x Copy Artifact	
1x Urborg, Tomb of Yawgmoth	1x Mystic Remora	
1x Verdant Catacombs	1x Necropotence	
1x Volcanic Island	1x Rhystic Study	
1x Watery Grave	1x Smothering Tithe	
1x Windswept Heath	1x Suppression Field	
1x Wooded Foothills	1x Waste Not	
 <b>Planeswalker (1)</b>		
1x Narset, Parter of Veils		

#### 4.43 Paradox Arcum

Deck Link: <https://tappedout.net/mtg-decks/03-02-17-paradox-arcum/>

Discord Url: N/A

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

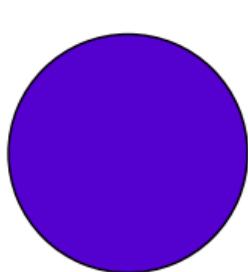
Commander(s): Arcum Dagsson

Color: U (U: 34 100.0%)

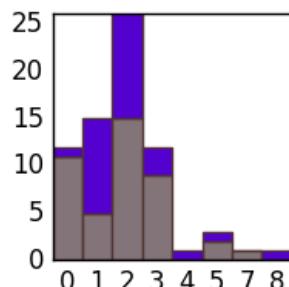
Avg. CMC: 1.93

Interaction Ratio: 0.56

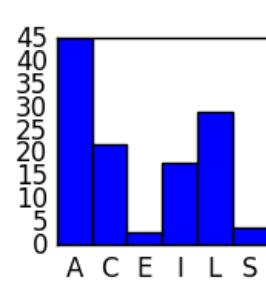
Cumulative CMC: 0: 0.17%, 1: 0.38%, 2: 0.75%, 3: 0.92%, 4: 0.93%, 5: 0.97%, 7: 0.99%, 8: 1.00%



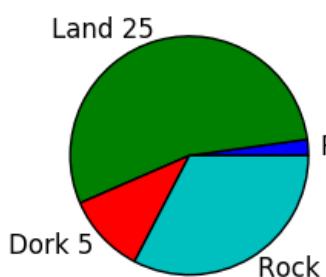
(a) Mana Pie



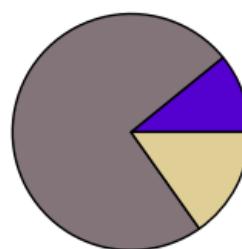
(b) CMC



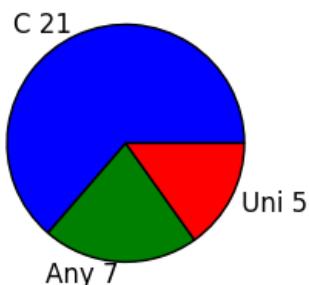
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 73: Paradox Arcum

Decklist: Paradox Arcum, Cockatrice Hash: 516ob1pu

<b>Commander (1)</b>	<b>Instant (18)</b>	<b>Artifact (24)</b>
1x Arcum Dagsson	1x Brainstorm 1x Chain of Vapor 1x Cyclonic Rift 1x Delay 1x Dig Through Time 1x Flusterstorm 1x Force of Will 1x Hurkyl's Recall 1x Impulse 1x Into the Roil 1x Mana Drain 1x Mana Leak 1x Mental Misstep 1x Mystical Tutor 1x Pact of Negation 1x Spell Pierce 1x Swan Song 1x Whir of Invention	1x Basalt Monolith 1x Chrome Mox 1x Citanul Flute 1x Everflowing Chalice 1x Fellwar Stone 1x Grim Monolith 1x Guardian Idol 1x Lightning Greaves 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Paradox Engine 1x Pithing Needle 1x Prismatic Lens 1x Rings of Brightearth 1x Sensei's Divining Top 1x Sky Diamond 1x Sol Ring 1x Spine of Ish Sah 1x Staff of Domination 1x Thought Vessel 1x Thousand-Year Elixir
<b>Land (29)</b>		
1x Academy Ruins 1x Ancient Tomb 1x Blinkmoth Nexus 1x Buried Ruin 1x Cavern of Souls 1x City of Traitors 1x Flooded Strand 1x Inkmoth Nexus 14x Island 1x Minamo, School at Water's Edge 1x Mishra's Factory 1x Mishra's Workshop 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Seat of the Synod		
<b>Enchantment (3)</b>		
1x Back to Basics 1x Mystic Remora 1x Power Artifact		
<b>Sorcery (4)</b>		
1x Ponder 1x Preordain 1x Timetwister 1x Transmute Artifact		
		<b>Creature (21)</b>
		1x Arcbound Ravager 1x Etherium Sculptor 1x Hangarback Walker 1x Hedron Crawler 1x Hope of Ghirapur 1x Junk Diver 1x Manakin 1x Memnite 1x Metalworker 1x Myr Retriever 1x Ornithopter 1x Palladium Myr 1x Phyrexian Revoker 1x Plague Myr 1x Scrap Trawler 1x Shield Sphere 1x Shimmer Myr 1x Silver Myr 1x Snapcaster Mage 1x Spellskite 1x Walking Ballista

#### 4.44 Paradox Scepter Thrasios

Deck Link: <http://tappedout.net/mtg-decks/paradox-scepter-thrasios-1/>

Discord Url: <https://discord.gg/DtG4djy>

Author: AlwaysSleepy (<https://tappedout.net/users/AlwaysSleepy>)

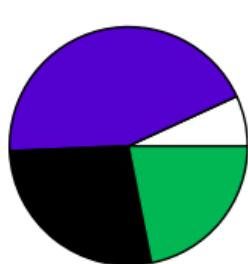
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 5 6.8% U: 32 43.8% B: 20 27.4% G: 16 21.9%)

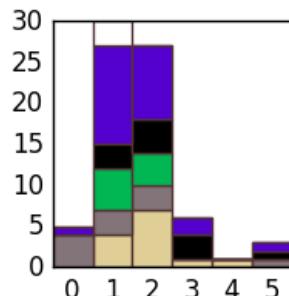
Avg. CMC: 1.68

Interaction Ratio: 0.68

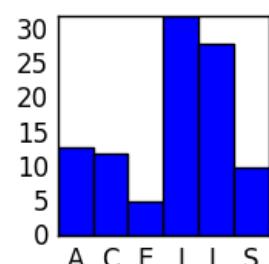
Cumulative CMC: 0: 0.07%, 1: 0.49%, 2: 0.86%, 3: 0.94%, 4: 0.96%, 5: 1.00%



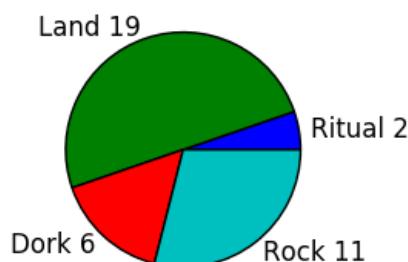
(a) Mana Pie



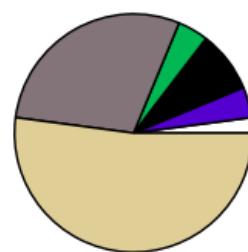
(b) CMC



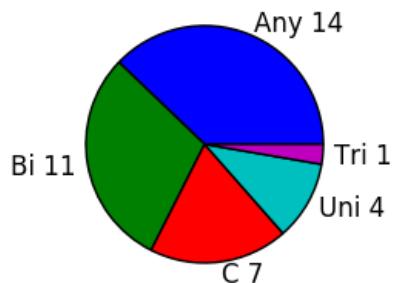
(c) Card Type



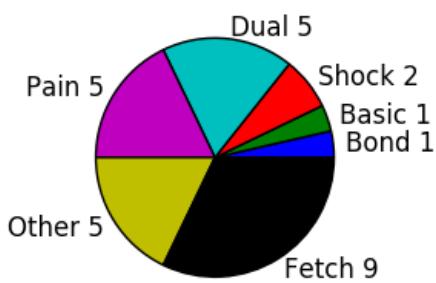
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 74: Paradox Scepter Thrasios

Decklist: Paradox Scepter Thrasios, Cockatrice Hash: e1d4qdda

<b>Commander (2)</b>	<b>Instant (32)</b>	<b>Enchantment (5)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Tymna the Weaver	1x Ad Nauseam	1x Copy Artifact
	1x Angel's Grace	1x Mystic Remora
<b>Land (28)</b>	1x Assassin's Trophy	1x Necropotence
1x Ancient Tomb	1x Brainstorm	1x Sylvan Library
1x Bayou	1x Chain of Vapor	
1x Bloodstained Mire	1x Counterspell	<b>Sorcery (10)</b>
1x Breeding Pool	1x Cyclonic Rift	1x Demonic Tutor
1x City of Brass	1x Dark Ritual	1x Gitaxian Probe
1x Command Tower	1x Delay	1x Imperial Seal
1x Exotic Orchard	1x Dispel	1x Ponder
1x Flooded Strand	1x Dovin's Veto	1x Preordain
1x Forbidden Orchard	1x Dramatic Reversal	1x Regrowth
1x Gemstone Caverns	1x Enlightened Tutor	1x Timetwister
1x Gemstone Mine	1x Flusterstorm	1x Toxic Deluge
1x Mana Confluence	1x Force of Will	1x Windfall
1x Marsh Flats	1x Lim-Dûl's Vault	1x Yawgmoth's Will
1x Misty Rainforest	1x Mana Drain	
1x Morphic Pool	1x Mental Misstep	<b>Artifact (13)</b>
1x Polluted Delta	1x Mystical Tutor	1x Chrome Mox
1x Savannah	1x Narset's Reversal	1x Fellwar Stone
1x Scalding Tarn	1x Nature's Claim	1x Grim Monolith
1x Snow-Covered Island	1x Negate	1x Isochron Scepter
1x Tarnished Citadel	1x Noxious Revival	1x Lotus Petal
1x Tropical Island	1x Pact of Negation	1x Mana Crypt
1x Tundra	1x Plunge into Darkness	1x Mana Vault
1x Underground Sea	1x Silence	1x Mox Diamond
1x Verdant Catacombs	1x Spell Pierce	1x Paradox Engine
1x Watery Grave	1x Swan Song	1x Sensei's Divining Top
1x Windswept Heath	1x Tainted Pact	1x Simic Signet
1x Wooded Foothills	1x Vampiric Tutor	1x Sol Ring
1x Yavimaya Coast	1x Winds of Rebuke	1x Talisman of Dominance
		<b>Creature (10)</b>
		1x Arbor Elf
		1x Avacyn's Pilgrim
		1x Birds of Paradise
		1x Bloom Tender
		1x Dark Confidant
		1x Deathrite Shaman
		1x Elves of Deep Shadow
		1x Noble Hierarch
		1x Notion Thief
		1x Priest of Titania

#### 4.45 Paradox Sisay

Deck Link: <https://tappedout.net/mtg-decks/sisay-staxcombo/>

Discord Url: <https://discord.gg/QPYtV8m>

Author: biopouvoir (<https://tappedout.net/users/biopouvoir>)

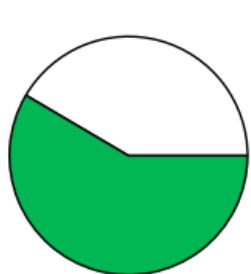
Commander(s): Captain Sisay

Color: WG (W: 27 41.5% G: 38 58.5%)

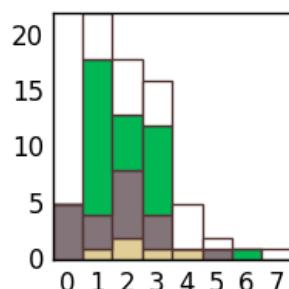
Avg. CMC: 2.13

Interaction Ratio: 0.39

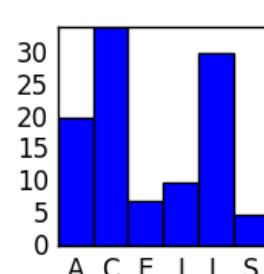
Cumulative CMC: 0: 0.07%, 1: 0.39%, 2: 0.64%, 3: 0.87%, 4: 0.94%, 5: 0.97%, 6: 0.99%, 7: 1.00%



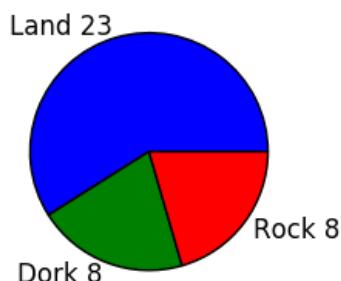
(a) Mana Pie



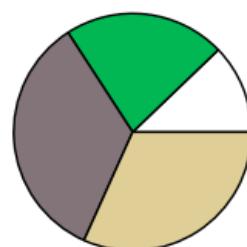
(b) CMC



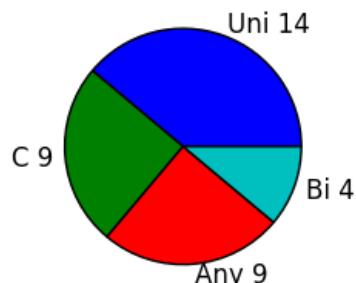
(c) Card Type



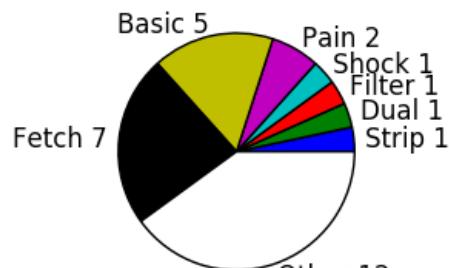
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 75: Paradox Sisay

Decklist: Paradox Sisay, Cockatrice Hash: mor62pgo

<b>Commander (1)</b>	<b>Instant (10)</b>	<b>Creature (32)</b>
1x Captain Sisay	1x Beast Within 1x Chord of Calling 1x Crop Rotation 1x Eladamri's Call 1x Enlightened Tutor 1x Nature's Claim 1x Noxious Revival 1x Path to Exile 1x Swords to Plowshares 1x Worldly Tutor	1x Arbor Elf 1x Avacyn's Pilgrim 1x Aven Mindcensor 1x Azusa, Lost but Seeking 1x Birds of Paradise 1x Bloom Tender 1x Boreal Druid 1x Dosan the Falling Leaf 1x Eidolon of Rhetoric 1x Elesh Norn, Grand Cenobite 1x Elvish Mystic 1x Ethersworn Canonist 1x Fiend Hunter 1x Fyndhorn Elves 1x Hokori, Dust Drinker 1x Hushwing Gryff 1x Kamahl, Fist of Krosa 1x Kataki, War's Wage 1x Linvala, Keeper of Silence 1x Llanowar Elves 1x Manglehorn 1x Mother of Runes 1x Phyrexian Revoker 1x Priest of Titania 1x Qasali Pridemage 1x Quirion Ranger 1x Rishkar, Peema Renegade 1x Selvala, Explorer Returned 1x Spirit of the Labyrinth 1x Sylvan Safekeeper 1x Thalia, Guardian of Thraben 1x Yisan, the Wanderer Bard
<b>Land (30)</b>	<b>Sorcery (5)</b>	
1x Ancient Tomb 1x Arid Mesa 1x Cavern of Souls 1x Command Tower 1x Dryad Arbor 1x Eiganjo Castle 1x Flagstones of Trokair 1x Flooded Strand 3x Forest 1x Gaea's Cradle 1x Gemstone Caverns 1x Horizon Canopy 1x Inventors' Fair 1x Marsh Flats 1x Mistveil Plains 1x Misty Rainforest 1x Okina, Temple to the Grandfathers 1x Pendelhaven 2x Plains 1x Savannah 1x Strip Mine 1x Temple Garden 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Bastion 1x Wooded Foothills 1x Yavimaya Hollow	1x Armageddon 1x Green Sun's Zenith 1x Land Grant 1x Ravages of War 1x Urza's Ruinous Blast	
<b>Enchantment (4)</b>	<b>Artifact (18)</b>	
1x Carpet of Flowers 1x Stony Silence 1x Survival of the Fittest 1x Sylvan Library	1x Bow of Nylea 1x Chrome Mox 1x Grafdigger's Cage 1x Lightning Greaves 1x Mana Crypt 1x Mana Vault 1x Mox Amber 1x Mox Diamond 1x Mox Opal 1x Null Rod 1x Paradox Engine 1x Sol Ring 1x Sphere of Resistance 1x Static Orb 1x Thorn of Amethyst 1x Thousand-Year Elixir 1x Trinisphere 1x Winter Orb	

## 4.46 Rad Farm

Deck Link: <http://tappedout.net/mtg-decks/rad-farm/>

Discord Url: <https://discord.gg/xbNX4ex>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

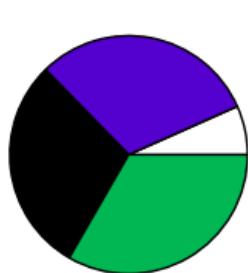
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 5 6.7% U: 23 30.7% B: 22 29.3% G: 25 33.3%)

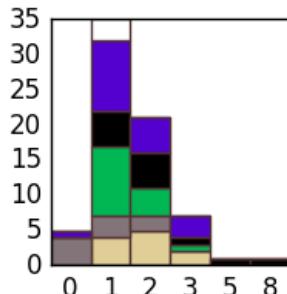
Avg. CMC: 1.59

Interaction Ratio: 0.64

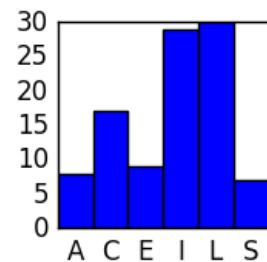
Cumulative CMC: 0: 0.07%, 1: 0.57%, 2: 0.87%, 3: 0.97%, 5: 0.99%, 8: 1.00%



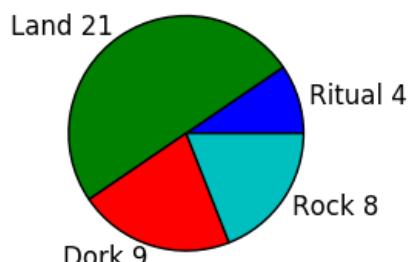
(a) Mana Pie



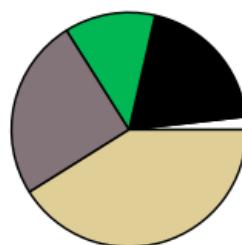
(b) CMC



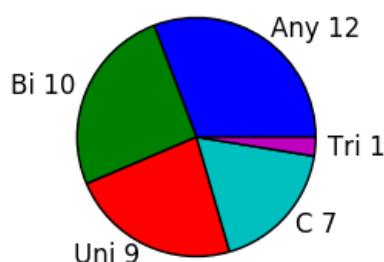
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 76: Rad Farm

Decklist: Rad Farm, Cockatrice Hash: 3c7lhun0

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<b>Commander (2)</b>	<b>Instant (29)</b>	<b>Enchantment (9)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Animate Dead
1x Tymna the Weaver	1x Ad Nauseam	1x Carpet of Flowers
	1x Angel's Grace	1x Earthcraft
<b>Land (30)</b>	1x Assassin's Trophy	1x Intruder Alarm
1x Ancient Tomb	1x Brainstorm	1x Mystic Remora
1x Bayou	1x Cabal Ritual	1x Squirrel Nest
1x Bloodstained Mire	1x Chain of Vapor	1x Sylvan Library
1x Breeding Pool	1x Crop Rotation	1x Utopia Sprawl
1x City of Brass	1x Culling the Weak	1x Wild Growth
1x Command Tower	1x Dark Ritual	
1x Exotic Orchard	1x Delay	<b>Sorcery (7)</b>
1x Flooded Strand	1x Dispel	1x Demonic Tutor
1x Forbidden Orchard	1x Dovin's Veto	1x Diabolic Intent
1x Forest	1x Dramatic Reversal	1x Imperial Seal
1x Gaea's Cradle	1x Enlightened Tutor	1x Life // Death
1x Gemstone Caverns	1x Entomb	1x Ponder
1x Mana Confluence	1x Flusterstorm	1x Timetwister
1x Marsh Flats	1x Frantic Search	1x Yawgmoth's Will
1x Misty Rainforest	1x Lim-Dûl's Vault	
1x Morphic Pool	1x Mana Drain	<b>Artifact (8)</b>
1x Overgrown Tomb	1x Mental Misstep	1x Chrome Mox
1x Polluted Delta	1x Mystical Tutor	1x Grim Monolith
1x Savannah	1x Narset's Reversal	1x Isochron Scepter
1x Scalding Tarn	1x Noxious Revival	1x Lotus Petal
1x Scrubland	1x Pact of Negation	1x Mana Crypt
1x Snow-Covered Forest	1x Silence	1x Mana Vault
1x Tarnished Citadel	1x Spell Pierce	1x Mox Diamond
1x Tropical Island	1x Swan Song	1x Sol Ring
1x Tundra	1x Vampiric Tutor	
1x Underground Sea		<b>Creature (15)</b>
1x Verdant Catacombs		1x Arbor Elf
1x Watery Grave		1x Avacyn's Pilgrim
1x Windswept Heath		1x Birds of Paradise
1x Wooded Foothills		1x Blisterpod
		1x Bloom Tender
		1x Dark Confidant
		1x Deathrite Shaman
		1x Elves of Deep Shadow
		1x Elvish Mystic
		1x Fyndhorn Elves
		1x Gilded Drake
		1x Llanowar Elves
		1x Noble Hierarch
		1x Priest of Titania
		1x Razaketh, the Foulblooded

#### 4.47 Rashmi Control

Deck Link: <http://tappedout.net/mtg-decks/infinite-eternities-that-also-last-a-long-time/>

Discord Url: <https://discord.gg/UQbRkH>

Author: Nakhla (<https://tappedout.net/users/Nakhla>)

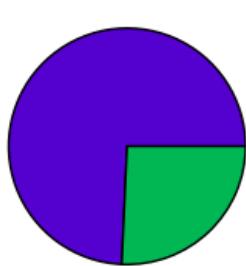
Commander(s): Rashmi, Eternities Crafter

Color: UG (U: 52 74.3% G: 18 25.7%)

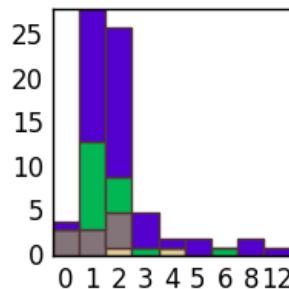
Avg. CMC: 2.07

Interaction Ratio: 0.72

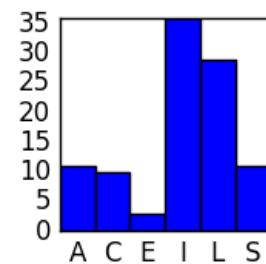
Cumulative CMC: 0: 0.06%, 1: 0.45%, 2: 0.82%, 3: 0.89%, 4: 0.92%, 5: 0.94%, 6: 0.96%, 8: 0.99%, 12: 1.00%



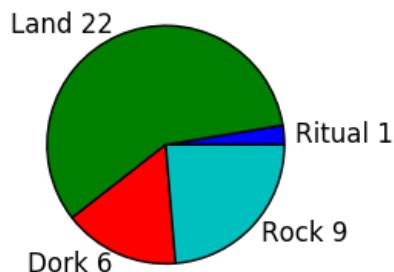
(a) Mana Pie



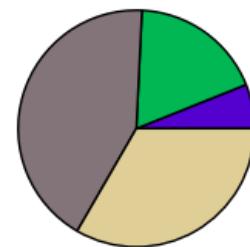
(b) CMC



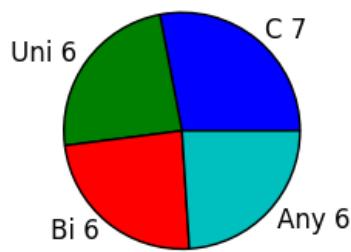
(c) Card Type



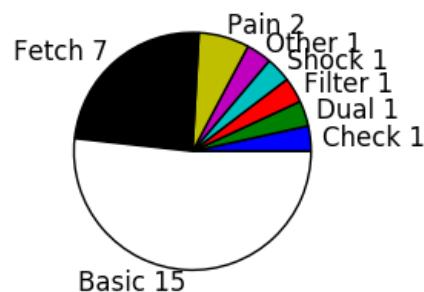
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 77: Rashmi Control

Decklist: Rashmi Control, Cockatrice Hash: u3d940b3

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<b>Commander (1)</b>	<b>Artifact (11)</b>	<b>Instant (36)</b>
1x Rashmi, Eternities Crafter	1x Chrome Mox 1x Fellwar Stone 1x Grim Monolith 1x Isochron Scepter 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sapphire Medallion 1x Sensei's Divining Top 1x Simic Signet 1x Sol Ring	1x Beast Within 1x Brainstorm 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Dig Through Time 1x Dispel 1x Dramatic Reversal 1x Fact or Fiction 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Hurkyl's Recall 1x Impulse 1x Into the Roil 1x Intuition 1x Mana Drain 1x Mana Leak 1x Mental Misstep 1x Muddle the Mixture 1x Mystical Tutor 1x Natural State 1x Nature's Claim 1x Negate 1x Noxious Revival 1x Pact of Negation 1x Pongify 1x Prohibit 1x Pull from Tomorrow 1x Rapid Hybridization 1x Reality Shift 1x Spell Pierce 1x Stroke of Genius 1x Submerge 1x Swan Song
<b>Land (29)</b>		
1x Ancient Tomb 1x Breeding Pool 1x Command Tower 1x Flooded Grove 1x Flooded Strand 1x Hinterland Harbor 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 5x Snow-Covered Forest 10x Snow-Covered Island 1x Tropical Island 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		
<b>Enchantment (3)</b>	<b>Creature (9)</b>	
1x Carpet of Flowers 1x Mystic Remora 1x Sylvan Library	1x Arbor Elf 1x Baral, Chief of Compliance 1x Birds of Paradise 1x Boreal Druid 1x Elvish Mystic 1x Fyndhorn Elves 1x Llanowar Elves 1x Priest of Titania 1x Snapcaster Mage	
<b>Sorcery (11)</b>		
1x Enter the Infinite 1x Gitaxian Probe 1x Manifold Insights 1x Merchant Scroll 1x Nature's Lore 1x Ponder 1x Preordain 1x Seasons Past 1x Sleight of Hand 1x Three Visits 1x Treasure Cruise		

#### 4.48 Razakats

Deck Link: <http://tappedout.net/mtg-decks/razakats/>

Discord Url: <https://discord.gg/sgJwnJj>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

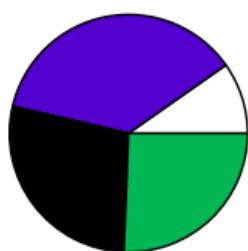
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 8 9.8% U: 30 36.6% B: 23 28.0% G: 21 25.6%)

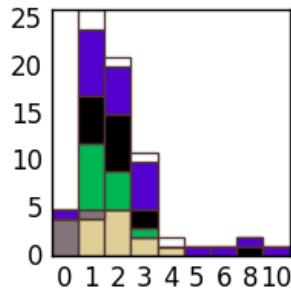
Avg. CMC: 2.09

Interaction Ratio: 0.53

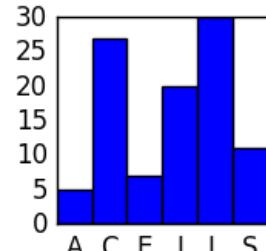
Cumulative CMC: 0: 0.07%, 1: 0.44%, 2: 0.74%, 3: 0.90%, 4: 0.93%, 5: 0.94%, 6: 0.96%, 8: 0.99%, 10: 1.00%



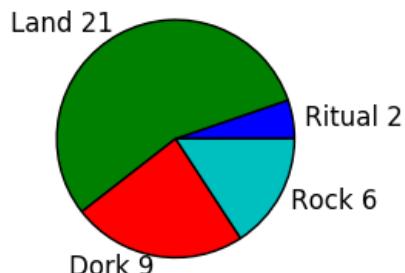
(a) Mana Pie



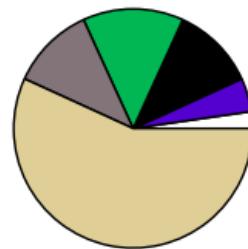
(b) CMC



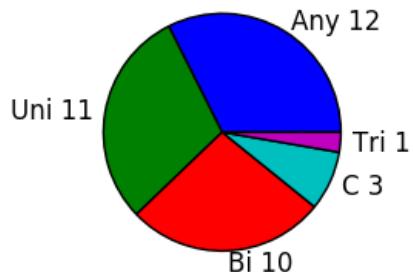
(c) Card Type



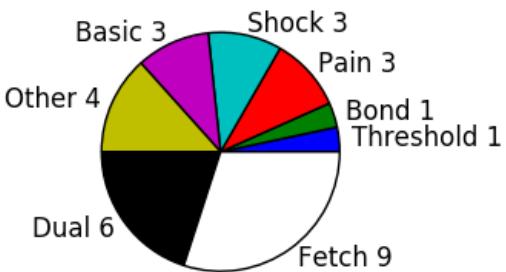
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 78: Razakats

Decklist: Razakats, Cockatrice Hash: 74bt072a

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<b>Commander (2)</b>	<b>Instant (20)</b>	<b>Sorcery (11)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Careful Study
1x Tymna the Weaver	1x Assassin's Trophy	1x Chart a Course
<b>Land (30)</b>	<b>1x Brainstorm</b>	1x Demonic Tutor
1x Bayou	1x Dark Ritual	1x Diabolic Intent
1x Bloodstained Mire	1x Dovin's Veto	1x Imperial Seal
1x Breeding Pool	1x Enlightened Tutor	1x Life // Death
1x Cephalid Coliseum	1x Entomb	1x Ponder
1x City of Brass	1x Force of Will	1x Reanimate
1x Command Tower	1x Frantic Search	1x Timetwister
1x Exotic Orchard	1x Intuition	1x Toxic Deluge
1x Flooded Strand	1x Lim-Dûl's Vault	1x Windfall
1x Forbidden Orchard	1x Mana Drain	<b>Creature (25)</b>
1x Gaea's Cradle	1x Mental Misstep	1x Arbor Elf
1x Mana Confluence	1x Mystical Tutor	1x Auriok Salvagers
1x Marsh Flats	1x Noxious Revival	1x Avacyn's Pilgrim
1x Misty Rainforest	1x Pact of Negation	1x Aven Mindcensor
1x Morphic Pool	1x Silence	1x Birds of Paradise
1x Overgrown Tomb	1x Swan Song	1x Blood Artist
1x Polluted Delta	1x Vampiric Tutor	1x Bloom Tender
1x Savannah	1x Winds of Rebuke	1x Consecrated Sphinx
1x Scalding Tarn	<b>Enchantment (7)</b>	1x Dark Confidant
1x Scrubland	1x Animate Dead	1x Deathrite Shaman
1x Snow-Covered Forest	1x Carpet of Flowers	1x Elves of Deep Shadow
1x Snow-Covered Island	1x Dance of the Dead	1x Elvish Mystic
1x Snow-Covered Swamp	1x Mystic Remora	1x Eternal Witness
1x Tarnished Citadel	1x Necromancy	1x Fyndhorn Elves
1x Tropical Island	1x Survival of the Fittest	1x Gilded Drake
1x Tundra	1x Sylvan Library	1x Jace, Vryn's Prodigy
1x Underground Sea	<b>Artifact (5)</b>	1x Jin-Gitaxias, Core Augur
1x Verdant Catacombs	1x Chrome Mox	1x Kederekt Leviathan
1x Watery Grave	1x Lion's Eye Diamond	1x Leonin Relic-Warder
1x Windswept Heath	1x Mana Crypt	1x Llanowar Elves
1x Wooded Foothills	1x Mox Diamond	1x Noble Hierarch
	1x Sol Ring	1x Notion Thief
		1x Priest of Titania
		1x Razaketh, the Foulblooded
		1x Spellseeker

#### 4.49 SBT Grave Combos

Deck Link: <https://tappedout.net/mtg-decks/a-heart-three-sizes-too-small-turn-1-win-copy/>  
 Discord Url: <https://discord.gg/7nUTaXa>

Author: Lilbrudder (<https://tappedout.net/users/Lilbrudder>)

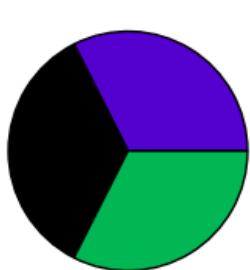
Commander(s): Sidisi, Brood Tyrant

Color: UBG (U: 25 32.5% B: 27 35.1% G: 25 32.5%)

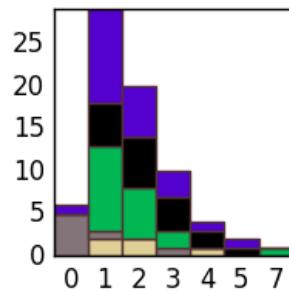
Avg. CMC: 1.83

Interaction Ratio: 0.53

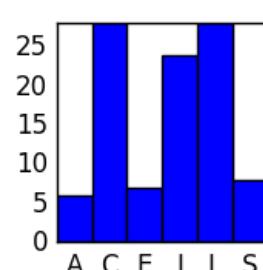
Cumulative CMC: 0: 0.08%, 1: 0.49%, 2: 0.76%, 3: 0.90%, 4: 0.96%, 5: 0.99%, 7: 1.00%



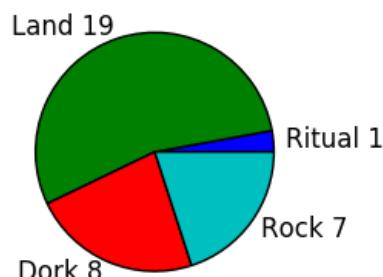
(a) Mana Pie



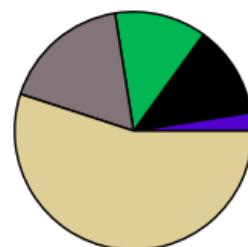
(b) CMC



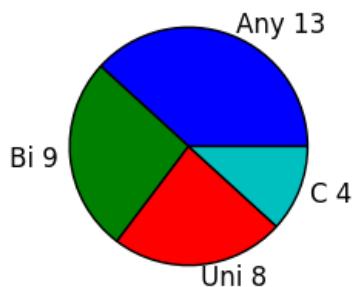
(c) Card Type



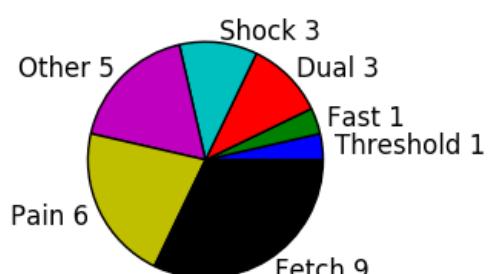
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 79: SBT Grave Combos

Decklist: SBT Grave Combos, Cockatrice Hash: m95bt32t

<b>Commander (1)</b>	<b>Instant (24)</b>	<b>Sorcery (8)</b>
1x Sidisi, Brood Tyrant	1x Abrupt Decay 1x Ad Nauseam 1x Brainstorm 1x Chain of Vapor 1x Dark Ritual 1x Dispel 1x Entomb 1x Flash 1x Flash of Insight 1x Flusterstorm 1x Force of Will 1x Lim-Dûl's Vault 1x Memory's Journey 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Shallow Grave 1x Spell Pierce 1x Swan Song 1x Tainted Pact 1x Vampiric Tutor 1x Worldly Tutor	1x Demonic Tutor 1x Diabolic Intent 1x Dread Return 1x Green Sun's Zenith 1x Imperial Seal 1x Ponder 1x Reanimate 1x Windfall
<b>Land (28)</b>		<b>Creature (27)</b>
1x Ancient Tomb 1x Bayou 1x Bloodstained Mire 1x Blooming Marsh 1x Breeding Pool 1x Cavern of Souls 1x Cephalid Coliseum 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Scalding Tarn 1x Tarnished Citadel 1x Tropical Island 1x Underground River 1x Underground Sea 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		1x Apprentice Necromancer 1x Arbor Elf 1x Birds of Paradise 1x Blighted Bat 1x Cephalid Inkshrouder 1x Channeler Initiate 1x Dark Confidant 1x Deathrite Shaman 1x Devoted Druid 1x Elves of Deep Shadow 1x Elvish Mystic 1x Eternal Scourge 1x Eternal Witness 1x Fatestitcher 1x Fyndhorn Elves 1x Gilded Drake 1x Hapless Researcher 1x Hermit Druid 1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Llanowar Elves 1x Mogis's Marauder 1x Narcomoeba 1x Necrotic Ooze 1x Protean Hulk 1x Walking Ballista 1x Wall of Roots
<b>Artifact (5)</b>	<b>Enchantment (7)</b>	
1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mox Diamond 1x Sol Ring	1x Carpet of Flowers 1x Food Chain 1x Mystic Remora 1x Necromancy 1x Necropotence 1x Survival of the Fittest 1x Sylvan Library	

## 4.50 Sacred Hulk

Deck Link: <https://tappedout.net/mtg-decks/sacred-hulk/>

Discord Url: <https://discord.gg/ZaEtFCd>

Author: Pongo\_Pygmaeu5 ([https://tappedout.net/users/Pongo\\_Pygmaeu5](https://tappedout.net/users/Pongo_Pygmaeu5))

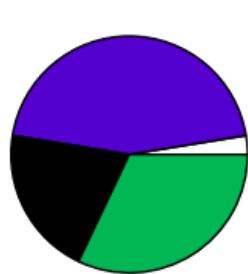
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 2 2.6% U: 35 44.9% B: 16 20.5% G: 25 32.1%)

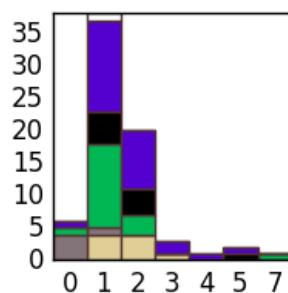
Avg. CMC: 1.52

Interaction Ratio: 0.63

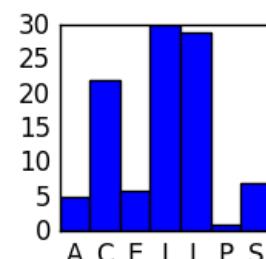
Cumulative CMC: 0: 0.08%, 1: 0.62%, 2: 0.90%, 3: 0.94%, 4: 0.96%, 5: 0.99%, 7: 1.00%



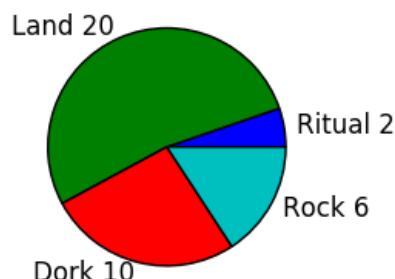
(a) Mana Pie



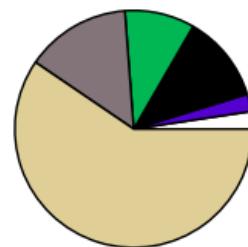
(b) CMC



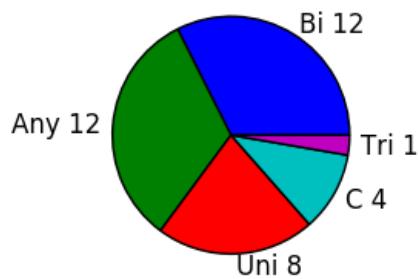
(c) Card Type



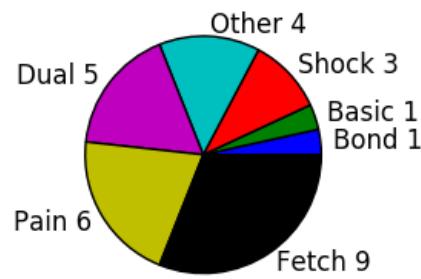
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 80: Sacred Hulk

Decklist: Sacred Hulk, Cockatrice Hash: 1lt8oiqb

<b>Commander (2)</b>	<b>Instant (30)</b>	<b>Enchantment (6)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Carpet of Flowers
1x Tymna the Weaver	1x Ad Nauseam	1x Mystic Remora
<b>Land (29)</b>	1x Assassin's Trophy	1x Sylvan Library
1x Bayou	1x Autumn's Veil	1x Training Grounds
1x Bloodstained Mire	1x Brainstorm	1x Utopia Sprawl
1x Breeding Pool	1x Chain of Vapor	1x Wild Growth
1x City of Brass	1x Counterspell	
1x Command Tower	1x Cyclonic Rift	
1x Exotic Orchard	1x Dark Ritual	
1x Flooded Strand	1x Delay	
1x Forbidden Orchard	1x Demonic Consultation	
1x Gemstone Caverns	1x Dispel	
1x Horizon Canopy	1x Flash	
1x Island	1x Flusterstorm	
1x Mana Confluence	1x Force of Will	
1x Marsh Flats	1x Lim-Dûl's Vault	
1x Misty Rainforest	1x Mana Drain	
1x Morphic Pool	1x Mental Misstep	
1x Overgrown Tomb	1x Mystical Tutor	
1x Polluted Delta	1x Narset's Reversal	
1x Savannah	1x Nature's Claim	
1x Scalding Tarn	1x Negate	
1x Tarnished Citadel	1x Noxious Revival	
1x Tropical Island	1x Pact of Negation	
1x Tundra	1x Pongify	
1x Underground River	1x Summoner's Pact	
1x Underground Sea	1x Swan Song	
1x Verdant Catacombs	1x Tainted Pact	
1x Watery Grave	1x Vampiric Tutor	
1x Windswept Heath	1x Worldly Tutor	
<b>Planeswalker (1)</b>		
1x Jace, Wielder of Mysteries		
<b>Sorcery (7)</b>		
	1x Demon Tutor	
	1x Diabolic Intent	
	1x Gitaxian Probe	
	1x Imperial Seal	
	1x Merchant Scroll	
	1x Ponder	
	1x Preordain	
<b>Artifact (5)</b>		
	1x Chrome Mox	
	1x Lotus Petal	
	1x Mana Crypt	
	1x Mox Diamond	
	1x Sol Ring	
<b>Creature (20)</b>		
	1x Arbor Elf	
	1x Avacyn's Pilgrim	
	1x Birds of Paradise	
	1x Blood Pet	
	1x Bloom Tender	
	1x Dark Confidant	
	1x Deathrite Shaman	
	1x Elves of Deep Shadow	
	1x Elvish Mystic	
	1x Fyndhorn Elves	
	1x Gilded Drake	
	1x Hapless Researcher	
	1x Laboratory Maniac	
	1x Llanowar Elves	
	1x Noble Hierarch	
	1x Priest of Titania	
	1x Protean Hulk	
	1x Sacred Guide	
	1x Spellseeker	
	1x Sylvan Safekeeper	

## 4.51 Scepter Control

Deck Link: <http://tappedout.net/mtg-decks/20-04-17-scepter-control/>

Discord Url: <https://discord.gg/ERMTuyP>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

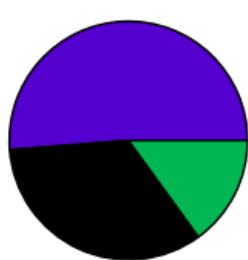
Commander(s): Tasigur, the Golden Fang

Color: UBG (U: 41 51.2% B: 27 33.8% G: 12 15.0%)

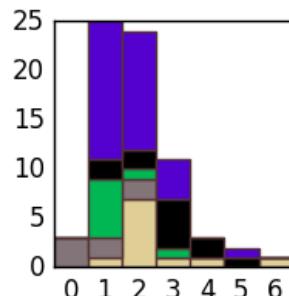
Avg. CMC: 1.94

Interaction Ratio: 0.57

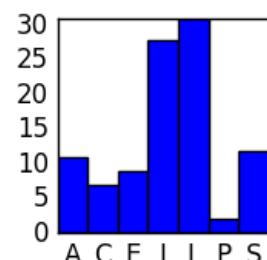
Cumulative CMC: 0: 0.04%, 1: 0.41%, 2: 0.75%, 3: 0.91%, 4: 0.96%, 5: 0.99%, 6: 1.00%



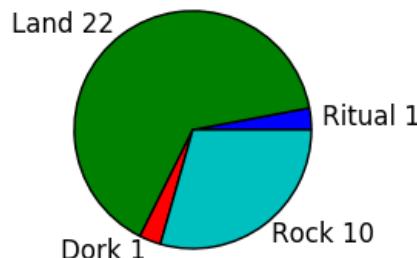
(a) Mana Pie



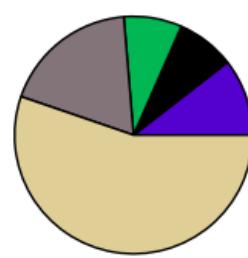
(b) CMC



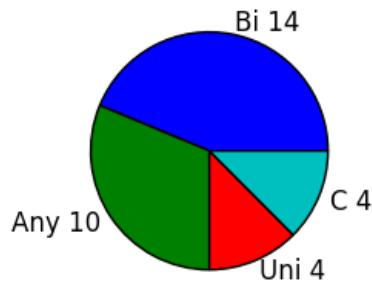
(c) Card Type



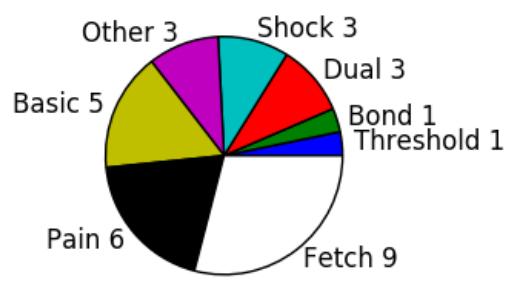
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 81: Scepter Control

Decklist: Scepter Control, Cockatrice Hash: 0bpa5352

<b>Commander (1)</b>	<b>Instant (28)</b>	<b>Enchantment (9)</b>
1x Tasigur, the Golden Fang	1x Abrupt Decay 1x Ad Nauseam 1x Assassin's Trophy 1x Brainstorm 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Dispel 1x Dramatic Reversal 1x Flusterstorm 1x Force of Will 1x Impulse 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Muddle the Mixture 1x Mystical Tutor 1x Narset's Reversal 1x Nature's Claim 1x Negate 1x Noxious Revival 1x Pongify 1x Rapid Hybridization 1x Reality Shift 1x Stubborn Denial 1x Swan Song 1x Vampiric Tutor	1x Carpet of Flowers 1x Copy Artifact 1x Mystic Remora 1x Necropotence 1x Rhystic Study 1x Sylvan Library 1x Utopia Sprawl 1x Verity Circle 1x Wild Growth
<b>Land (31)</b>		<b>Sorcery (12)</b>
1x Ancient Tomb 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x Cephalid Coliseum 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Overgrown Tomb 1x Polluted Delta 1x Scalding Tarn 1x Snow-Covered Forest 3x Snow-Covered Island 1x Snow-Covered Swamp 1x Tropical Island 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills 1x Yavimaya Coast		1x Damnation 1x Demonic Tutor 1x Gitaxian Probe 1x Grim Tutor 1x Imperial Seal 1x Massacre 1x Ponder 1x Praetor's Grasp 1x Preordain 1x Toxic Deluge 1x Windfall 1x Yawgmoth's Will
<b>Planeswalker (2)</b>		<b>Artifact (11)</b>
1x Ashiok, Dream Render 1x Narset, Parter of Veils		1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Golgari Signet 1x Isochron Scepter 1x Mana Crypt 1x Mox Diamond 1x Sensei's Divining Top 1x Simic Signet 1x Sol Ring 1x Talisman of Dominance
<b>Creature (6)</b>		
	1x Birds of Paradise 1x Dark Confidant 1x Deathrite Shaman 1x Gilded Drake 1x Notion Thief 1x Runic Armasaur	

## 4.52 Scion Reanimator

Deck Link: <https://tappedout.net/mtg-decks/18-12-18-scion-reanimator/>

Discord Url: <https://discord.gg/xbNX4ex>

Author: ShaperSavant (<https://tappedout.net/users/ShaperSavant>)

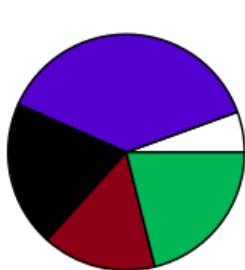
Commander(s): Scion of the Ur-Dragon

Color: WUBRG (W: 5 5.6% U: 34 37.8% B: 18 20.0% R: 14 15.6% G: 19 21.1%)

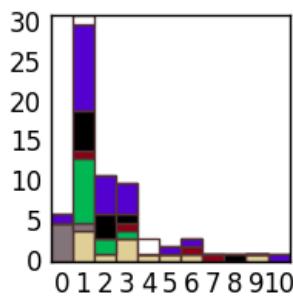
Avg. CMC: 2.24

Interaction Ratio: 0.53

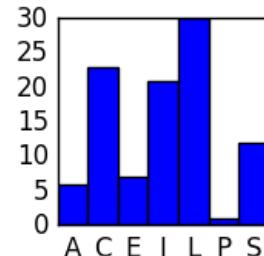
Cumulative CMC: 0: 0.09%, 1: 0.53%, 2: 0.69%, 3: 0.83%, 4: 0.87%, 5: 0.90%, 6: 0.94%, 7: 0.96%, 8: 0.97%, 9: 0.99%, 10: 1.00%



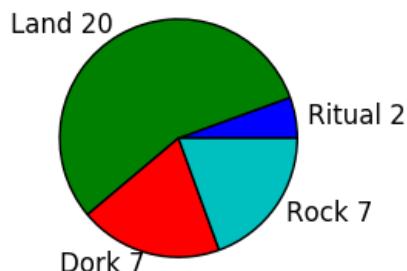
(a) Mana Pie



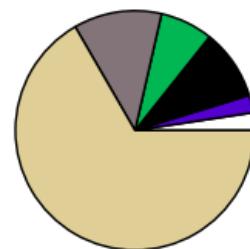
(b) CMC



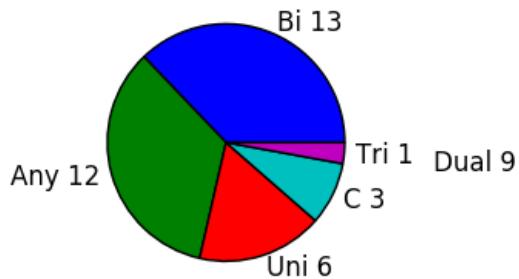
(c) Card Type



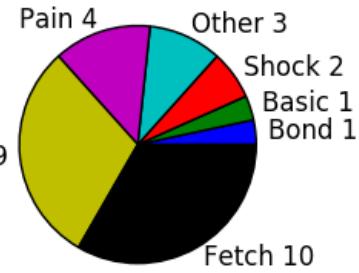
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 82: Scion Reanimator

Decklist: Scion Reanimator, Cockatrice Hash: vdd9lctg

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<b>Commander (1)</b>	<b>Instant (21)</b>	<b>Sorcery (12)</b>
1x Scion of the Ur-Dragon	1x Brainstorm 1x Dark Ritual 1x Dispel 1x Enlightened Tutor 1x Entomb 1x Fire Covenant 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Intuition 1x Izzet Charm 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Pongify 1x Swan Song 1x Vampiric Tutor 1x Winds of Rebuke	1x Careful Study 1x Chart a Course 1x Demonic Tutor 1x Faithless Looting 1x Imperial Seal 1x Life // Death 1x Ponder 1x Preordain 1x Reanimate 1x Timetwister 1x Wheel of Fortune 1x Windfall
<b>Land (30)</b>		
1x Arid Mesa 1x Badlands 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Scrubland 1x Snow-Covered Island 1x Taiga 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Volcanic Island 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills		
<b>Planeswalker (1)</b>		
1x Dack Fayden		
<b>Enchantment (7)</b>		<b>Creature (22)</b>
	1x Animate Dead 1x Carpet of Flowers 1x Dance of the Dead 1x Mystic Remora 1x Necromancy 1x Survival of the Fittest 1x Sylvan Library	1x Alms Collector 1x Arbor Elf 1x Auriok Salvagers 1x Avacyn's Pilgrim 1x Birds of Paradise 1x Consecrated Sphinx 1x Deathrite Shaman 1x Dragon Mage 1x Elves of Deep Shadow 1x Elvish Mystic 1x Eternal Witness 1x Fyndhorn Elves 1x Gilded Drake 1x Jace, Vryn's Prodigy 1x Jin-Gitaxias, Core Augur 1x Llanowar Elves 1x Niv-Mizzet, Dracogenius
<b>Artifact (6)</b>		
	1x Chrome Mox 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mox Diamond 1x Sol Ring	1x Noble Hierarch 1x Notion Thief 1x Razaketh, the Foulblooded 1x The Ur-Dragon 1x Worldgorger Dragon

### 4.53 Seasons Pastigur

Deck Link: <http://tappedout.net/mtg-decks/tasigur-seasons-past-season-pastigur/>

Discord Url: <https://discord.gg/ERMTuyP>

Author: LabManiac\_Cameron ([https://tappedout.net/users/LabManiac\\_Cameron](https://tappedout.net/users/LabManiac_Cameron))

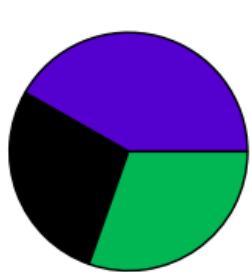
Commander(s): Tasigur, the Golden Fang

Color: UBG (U: 33 41.8% B: 22 27.8% G: 24 30.4%)

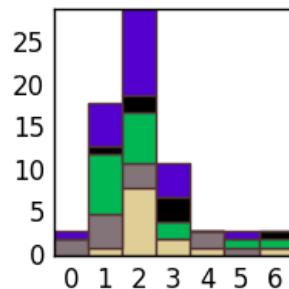
Avg. CMC: 2.20

Interaction Ratio: 0.51

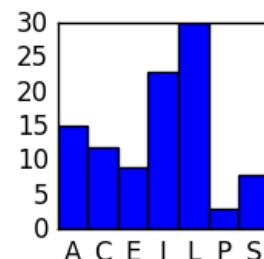
Cumulative CMC: 0: 0.04%, 1: 0.30%, 2: 0.71%, 3: 0.87%, 4: 0.91%, 5: 0.96%, 6: 1.00%



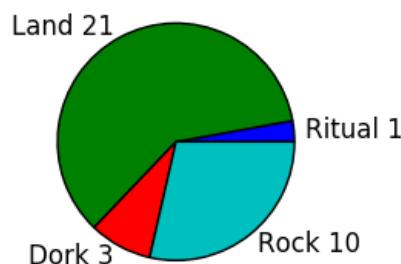
(a) Mana Pie



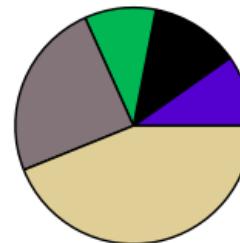
(b) CMC



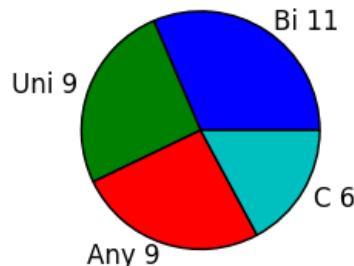
(c) Card Type



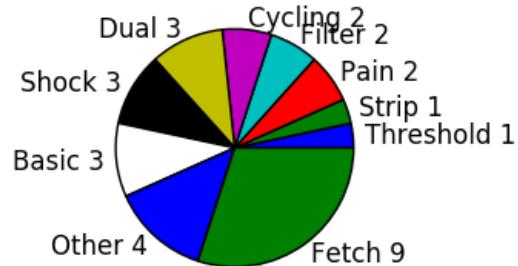
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 83: Seasons Pastigur

Decklist: Seasons Pastigur, Cockatrice Hash: 36n4e1fm

<b>Commander (1)</b>	<b>Instant (23)</b>	<b>Sorcery (8)</b>
1x Tasigur, the Golden Fang	1x Abrupt Decay 1x Assassin's Trophy 1x Beast Within 1x Brainstorm 1x Counterspell 1x Crop Rotation 1x Cyclonic Rift 1x Dimir Charm 1x Dramatic Reversal 1x Flusterstorm 1x Force of Will 1x Intuition 1x Lim-Dûl's Vault 1x Mana Drain 1x Mission Briefing 1x Narset's Reversal 1x Noxious Revival 1x Pact of Negation 1x Rapid Hybridization 1x Reality Shift 1x Shadow of Doubt 1x Swan Song 1x Vampiric Tutor	1x Demonic Tutor 1x Life from the Loam 1x Praetor's Grasp 1x Regrowth 1x Seasons Past 1x Timetwister 1x Toxic Deluge 1x Yawgmoth's Will
<b>Land (30)</b>		<b>Artifact (15)</b>
1x Barren Moor 1x Bayou 1x Bloodstained Mire 1x Bojuka Bog 1x Breeding Pool 1x Cephalid Coliseum 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Forest 1x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Reflecting Pool 1x Scalding Tarn 1x Strip Mine 1x Sunken Ruins 1x Swamp 1x Tranquil Thicket 1x Tropical Island 1x Twilight Mire 1x Underground Sea 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills		1x Aetherflux Reservoir 1x Bolas's Citadel 1x Dimir Signet 1x Fellwar Stone 1x Grafdigger's Cage 1x Isochron Scepter 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Paradox Engine 1x Sensei's Divining Top 1x Simic Signet 1x Sol Ring 1x Talisman of Dominance 1x Thought Vessel
<b>Planeswalker (3)</b>	<b>Enchantment (9)</b>	<b>Creature (11)</b>
1x Ashiok, Dream Render 1x Karn, the Great Creator 1x Narset, Parter of Veils	1x Carpet of Flowers 1x Copy Artifact 1x Exploration 1x Freed from the Real 1x Mystic Remora 1x Pernicious Deed 1x Search for Azcanta 1x Sylvan Library 1x Utopia Sprawl	1x Arbor Elf 1x Birds of Paradise 1x Bloom Tender 1x Dark Confidant 1x Deathrite Shaman 1x Gilded Drake 1x Notion Thief 1x Priest of Titania 1x Riftsweeper 1x Runic Armasaur 1x Seedborn Muse

## 4.54 Selvala Brostorm

Deck Link: <https://tappedout.net/mtg-decks/selvala-brostorm/>

Discord Url: <https://discord.gg/7Bj3wuS>

Author: asm (<https://tappedout.net/users/asm>)

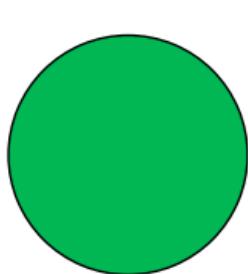
Commander(s): Selvala, Heart of the Wilds

Color: G (G: 82 100.0%)

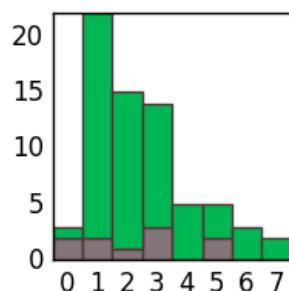
Avg. CMC: 2.48

Interaction Ratio: 0.39

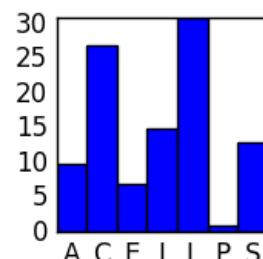
Cumulative CMC: 0: 0.04%, 1: 0.36%, 2: 0.58%, 3: 0.78%, 4: 0.86%, 5: 0.93%, 6: 0.97%, 7: 1.00%



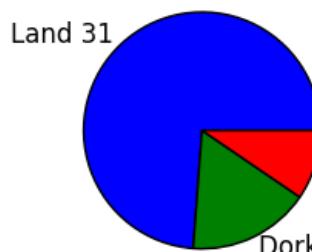
(a) Mana Pie



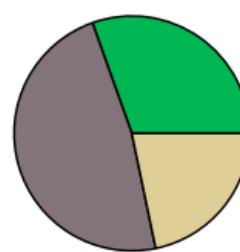
(b) CMC



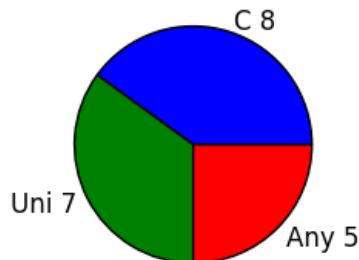
(c) Card Type



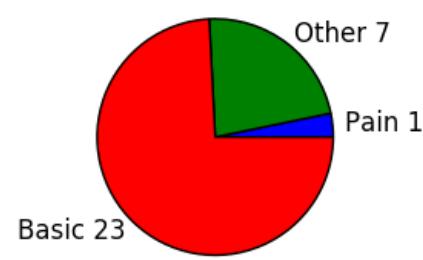
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 84: Selvala Brostorm

Decklist: Selvala Brostrom, Cockatrice Hash: fb3k4jfb

<b>Commander (1)</b>	<b>Sorcery (13)</b>	<b>Creature (25)</b>
1x Selvala, Heart of the Wilds	1x Eldritch Evolution 1x Finale of Devastation 1x Genesis Wave 1x Green Sun's Zenith 1x Harmonize 1x Life's Legacy 1x Natural Order 1x Phytopurst 1x Rishkar's Expertise 1x Soul's Majesty 1x Tooth and Nail 1x Uncage the Menagerie 1x Weird Harvest	1x Arbor Elf 1x Birds of Paradise 1x Boreal Druid 1x Duskwatch Recruiter 1x Elvish Mystic 1x Eternal Witness 1x Fyndhorn Elves 1x Great Oak Guardian 1x Kraul Harpooner 1x Llanowar Elves 1x Lupine Prototype 1x Phyrexian Dreadnought 1x Phyrexian Soulgorgor 1x Priest of Titania 1x Quirion Ranger 1x Ravaging Riftwurm 1x Reclamation Sage 1x Regal Force 1x Scryb Ranger 1x Sheltering Ancient 1x Somberwald Stag 1x Temur Sabertooth 1x Wirewood Symbiote 1x Woodland Bellower 1x Yisan, the Wanderer Bard
<b>Land (31)</b>		
1x Ancient Tomb 1x Cavern of Souls 1x Dryad Arbor 1x Gaea's Cradle 1x Gemstone Caverns 1x Mouth of Ronom 1x Nykthos, Shrine to Nyx 23x Snow-Covered Forest 1x Wirewood Lodge		
<b>Instant (15)</b>	<b>Artifact (7)</b>	
1x Autumn's Veil 1x Beast Within 1x Benefactor's Draught 1x Berserk 1x Chord of Calling 1x Crop Rotation 1x Deglamer 1x Groundswell 1x Invigorate 1x Might of Old Krosa 1x Momentous Fall 1x Nature's Claim 1x Summoner's Pact 1x Vines of Vastwood 1x Worldly Tutor	1x Chrome Mox 1x Mana Crypt 1x Memory Jar 1x Paradox Engine 1x Sol Ring 1x Staff of Domination 1x Umbral Mantle	
<b>Enchantment (7)</b>		
1x Carpet of Flowers 1x Greater Good 1x Song of the Dryads 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth		
<b>Planeswalker (1)</b>		
1x Garruk, Primal Hunter		

#### 4.55 Shimmer Zur

Deck Link: <https://tappedout.net/mtg-decks/ad-nauseam-doomsday-zur-2/>

Discord Url: <https://discord.gg/UDgq2QF>

Author: Suasion (<https://tappedout.net/users/Suasion>)

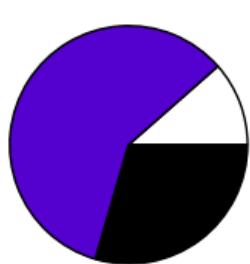
Commander(s): Zur the Enchanter

Color: WUB (W: 7 11.5% U: 36 59.0% B: 18 29.5%)

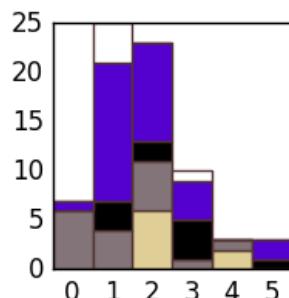
Avg. CMC: 1.80

Interaction Ratio: 0.68

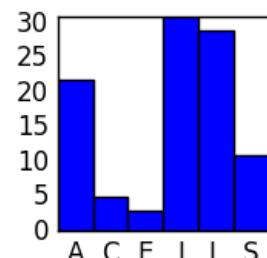
Cumulative CMC: 0: 0.10%, 1: 0.45%, 2: 0.77%, 3: 0.92%, 4: 0.96%, 5: 1.00%



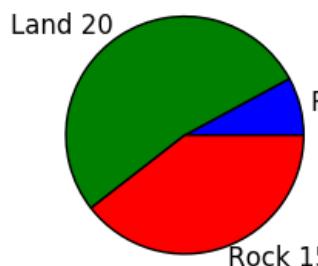
(a) Mana Pie



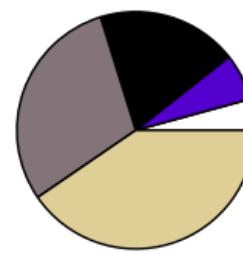
(b) CMC



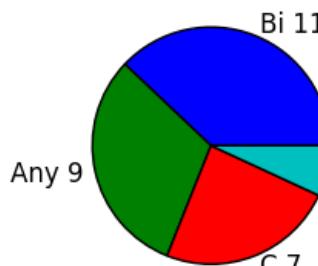
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 85: Shimmer Zur

Decklist: Shimmer Zur, Cockatrice Hash: cf45rvsl

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<b>Commander (1)</b>	<b>Instant (31)</b>	<b>Sorcery (11)</b>
1x Zur the Enchanter	1x Ad Nauseam 1x Angel's Grace 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Dramatic Reversal 1x Enlightened Tutor 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Gush 1x High Tide 1x Hurkyl's Recall 1x Impulse 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Negate 1x Opt 1x Pact of Negation 1x Quicken 1x Silence 1x Spell Pierce 1x Swan Song 1x Swords to Plowshares 1x Vampiric Tutor	1x Demonic Tutor 1x Doomsday 1x Gitaxian Probe 1x Imperial Seal 1x Merchant Scroll 1x Ponder 1x Preordain 1x Timetwister 1x Toxic Deluge 1x Windfall 1x Yawgmoth's Will
<b>Land (29)</b>		<b>Artifact (21)</b>
1x Ancient Tomb 1x Arid Mesa 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Flooded Strand 1x Gemstone Caverns 1x Godless Shrine 1x Hallowed Fountain 8x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x Scrubland 1x Swamp 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath		1x Aetherflux Reservoir 1x Azorius Signet 1x Chrome Mox 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Helm of Awakening 1x Isochron Scepter 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Nihil Spellbomb 1x Orzhov Signet 1x Scroll Rack 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Progress
<b>Enchantment (3)</b>		
1x Grasp of Fate 1x Mystic Remora 1x Necropotence		
<b>Creature (4)</b>		
1x Jace, Vryn's Prodigy 1x Laboratory Maniac 1x Notion Thief 1x Shimmer Myr		

## 4.56 Shuffle Hulk

Deck Link: <https://tappedout.net/mtg-decks/shuffle-hulk/>

Discord Url: <https://discord.gg/n8xVUxu>

Author: sickrobot (<https://tappedout.net/users/sickrobot>)

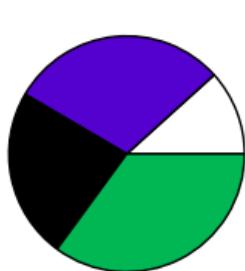
Commander(s): Thrasios, Triton Hero, Tymna the Weaver

Color: WUBG (W: 9 11.7% U: 23 29.9% B: 18 23.4% G: 27 35.1%)

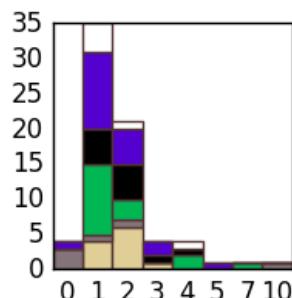
Avg. CMC: 1.79

Interaction Ratio: 0.49

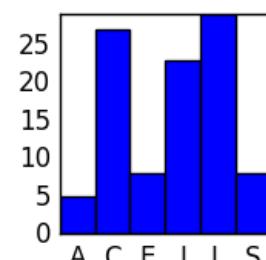
Cumulative CMC: 0: 0.06%, 1: 0.55%, 2: 0.85%, 3: 0.90%, 4: 0.96%, 5: 0.97%, 7: 0.99%, 10: 1.00%



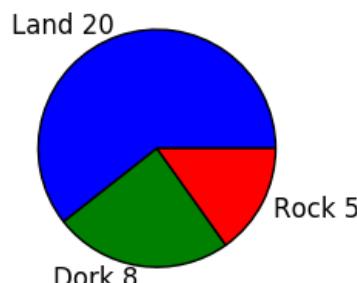
(a) Mana Pie



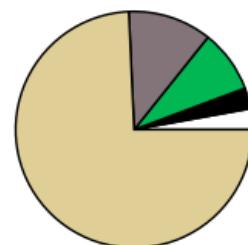
(b) CMC



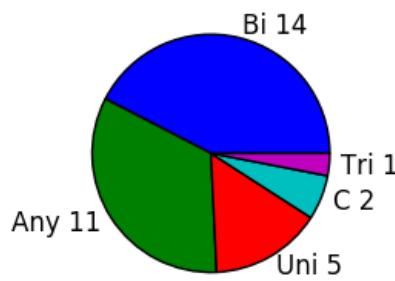
(c) Card Type



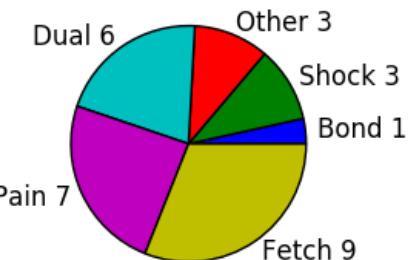
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 86: Shuffle Hulk

Decklist: Shuffle Hulk, Cockatrice Hash: 1kja9275

<b>Commander (2)</b>	<b>Instant (23)</b>	<b>Sorcery (8)</b>
1x Thrasios, Triton Hero	1x Abrupt Decay	1x Demonic Tutor
1x Tymna the Weaver	1x Assassin's Trophy	1x Diabolic Intent
	1x Brainstorm	1x Gitaxian Probe
<b>Land (29)</b>	1x Chain of Vapor	1x Imperial Seal
1x Bayou	1x Dispel	1x Natural Order
1x Bloodstained Mire	1x Eladamri's Call	1x Neoform
1x Breeding Pool	1x Enlightened Tutor	1x Ponder
1x City of Brass	1x Entomb	1x Preordain
1x Command Tower	1x Flash	
1x Exotic Orchard	1x Flusterstorm	<b>Artifact (5)</b>
1x Flooded Strand	1x Force of Will	1x Altar of Dementia
1x Forbidden Orchard	1x Lim-Dûl's Vault	1x Chrome Mox
1x Horizon Canopy	1x Memory's Journey	1x Mana Crypt
1x Llanowar Wastes	1x Mental Misstep	1x Mox Diamond
1x Mana Confluence	1x Mystical Tutor	1x Sol Ring
1x Marsh Flats	1x Nature's Claim	
1x Misty Rainforest	1x Noxious Revival	<b>Creature (25)</b>
1x Morphic Pool	1x Pact of Negation	1x Academy Rector
1x Overgrown Tomb	1x Silence	1x Apprentice Necromancer
1x Polluted Delta	1x Swan Song	1x Arbor Elf
1x Savannah	1x Swords to Plowshares	1x Avacyn's Pilgrim
1x Scalding Tarn	1x Vampiric Tutor	1x Birds of Paradise
1x Scrubland	1x Worldly Tutor	1x Blood Artist
1x Tarnished Citadel		1x Bloom Tender
1x Tropical Island	<b>Enchantment (8)</b>	1x Body Snatcher
1x Tundra	1x Carpet of Flowers	1x Carrion Feeder
1x Underground River	1x Freed from the Real	1x Cephalid Illusionist
1x Underground Sea	1x Mystic Remora	1x Dark Confidant
1x Verdant Catacombs	1x Necromancy	1x Deathrite Shaman
1x Watery Grave	1x Pattern of Rebirth	1x Elves of Deep Shadow
1x Windswept Heath	1x Survival of the Fittest	1x Elvish Mystic
1x Wooded Foothills	1x Sylvan Library	1x Fyndhorn Elves
1x Yavimaya Coast	1x Wild Growth	1x Gilded Drake
		1x Kozilek, Butcher of Truth
		1x Leonin Relic-Warder
		1x Llanowar Elves
		1x Narcomoeba
		1x Noble Hierarch
		1x Nomads en-Kor
		1x Protean Hulk
		1x Spellseeker
		1x Viscera Seer

## 4.57 Sidisi Ad Naus Fishbowl

Deck Link: <https://tappedout.net/mtg-decks/sidisis-reign-of-filth/>

Discord Url: <https://discord.gg/abTZ8rT>

Author: Nakhla (<https://tappedout.net/users/Nakhla>)

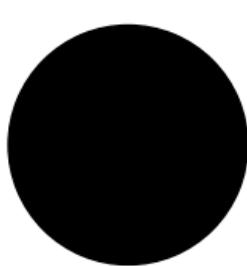
Commander(s): Sidisi, Undead Vizier

Color: B (B: 31 100.0%)

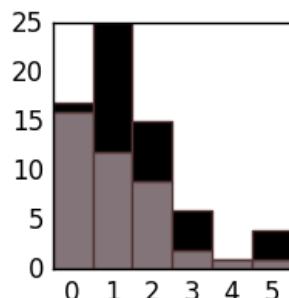
Avg. CMC: 1.43

Interaction Ratio: 0.44

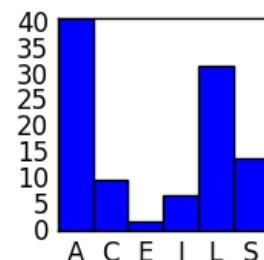
Cumulative CMC: 0: 0.25%, 1: 0.62%, 2: 0.84%, 3: 0.93%, 4: 0.94%, 5: 1.00%



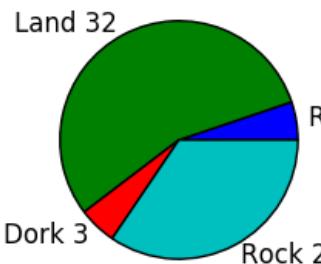
(a) Mana Pie



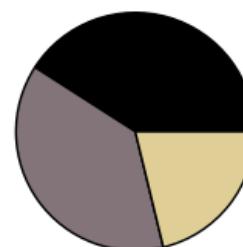
(b) CMC



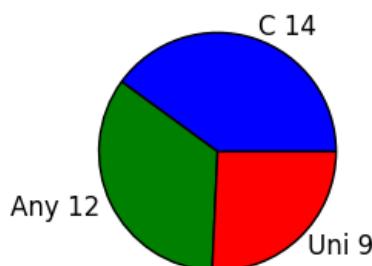
(c) Card Type



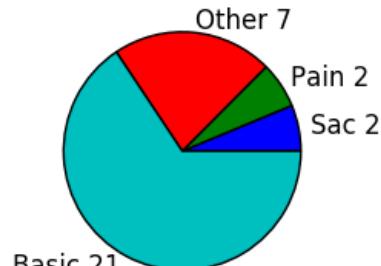
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 87: Sidisi Ad Naus Fishbowl

Decklist: Sidisi Ad Naus Fishbowl, Cockatrice Hash: de473cts

<b>Commander (1)</b>	<b>Sorcery (14)</b>	<b>Artifact (35)</b>
1x Sidisi, Undead Vizier	1x Bubbling Muck 1x Cabal Therapy 1x Deathmark 1x Demonic Tutor 1x Diabolic Intent 1x Duress 1x Exsanguinate 1x Grim Tutor 1x Imperial Seal 1x Inquisition of Kozilek 1x Praetor's Grasp 1x Reanimate 1x Thoughtseize 1x Yawgmoth's Will	1x Aetherflux Reservoir 1x Astral Cornucopia 1x Basalt Monolith 1x Chromatic Sphere 1x Chromatic Star 1x Chrome Mox 1x Codex Shredder 1x Conjurer's Bauble 1x Defense Grid 1x Everflowing Chalice 1x Expedition Map 1x Fellwar Stone 1x Fractured Powerstone 1x Grim Monolith 1x Helm of Awakening 1x Jet Medallion 1x Jeweled Amulet 1x Lion's Eye Diamond 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mind Stone 1x Mishra's Bauble 1x Mox Diamond 1x Mox Opal 1x Paradox Engine 1x Prismatic Lens 1x Rings of Brightearth 1x Sensei's Divining Top 1x Sol Ring 1x Springleaf Drum 1x Thought Vessel 1x Urza's Bauble 1x Voltaic Key 1x Wayfarer's Bauble
<b>Land (32)</b>		
1x Ancient Tomb 1x Boseiju, Who Shelters All 1x Cavern of Souls 1x City of Traitors 1x Crystal Vein 1x Ebon Stronghold 1x Gemstone Caverns 1x Lake of the Dead 1x Peat Bog 1x Phyrexian Tower 21x Swamp 1x Urborg, Tomb of Yawgmoth		
<b>Instant (7)</b>		
1x Ad Nauseam 1x Cabal Ritual 1x Culling the Weak 1x Dark Ritual 1x Rain of Filth 1x Slaughter Pact 1x Vampiric Tutor		
<b>Enchantment (2)</b>		
1x Animate Dead 1x Dance of the Dead		
<b>Creature (9)</b>		
1x Blood Pet 1x Hope of Ghirapur 1x Memnite 1x Ornithopter 1x Overeager Apprentice 1x Phyrexian Walker 1x Shield Sphere 1x Skirge Familiar 1x Walking Ballista		

## 4.58 T&T Hulkball

Deck Link: [http://tappedout.net/mtg-decks/tymna-tana\\_the-burlap-sack\\_threaten-copy-1/](http://tappedout.net/mtg-decks/tymna-tana_the-burlap-sack_threaten-copy-1/)  
 Discord Url: <https://discord.gg/7nUTaXa>

Author: tw0handt0uch (<https://tappedout.net/users/tw0handt0uch>)

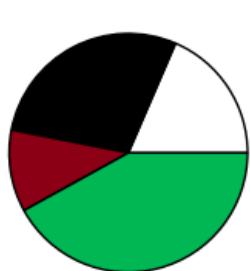
Commander(s): Tana, the Bloodsower, Tymna the Weaver

Color: WBRG (W: 15 18.5% B: 23 28.4% R: 9 11.1% G: 34 42.0%)

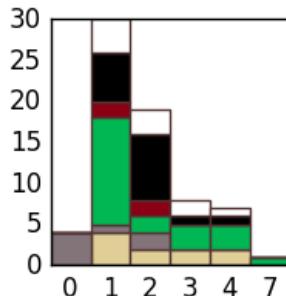
Avg. CMC: 1.84

Interaction Ratio: 0.49

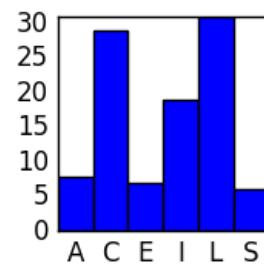
Cumulative CMC: 0: 0.06%, 1: 0.49%, 2: 0.77%, 3: 0.88%, 4: 0.99%, 7: 1.00%



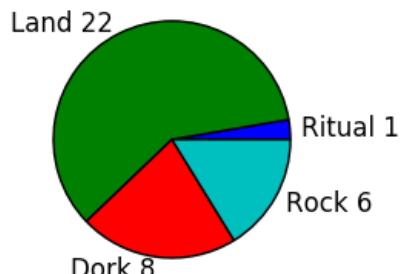
(a) Mana Pie



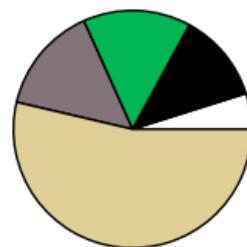
(b) CMC



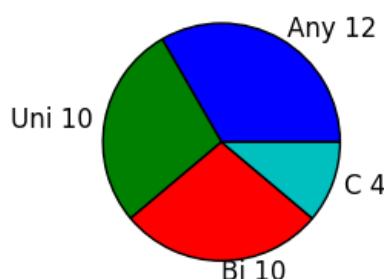
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 88: T&T Hulkball

Decklist: T&T Hulkball, Cockatrice Hash: nk4ii190

<b>Commander (2)</b>	<b>Instant (19)</b>	<b>Artifact (8)</b>
1x Tana, the Bloodsower	1x Abrade	1x Altar of Dementia
1x Tymna the Weaver	1x Abrupt Decay	1x Birthing Pod
	1x Autumn's Veil	1x Chrome Mox
	1x Chord of Calling	1x Lotus Petal
<b>Land (31)</b>	1x Dark Ritual	1x Mana Crypt
1x Arid Mesa	1x Eladamri's Call	1x Mox Diamond
1x Badlands	1x Enlightened Tutor	1x Sol Ring
1x Bayou	1x Entomb	1x Spawning Pit
1x Bloodstained Mire	1x Fire Covenant	
1x Brushland	1x Guttural Response	<b>Creature (27)</b>
1x City of Brass	1x Natural State	1x Academy Rector
1x Command Tower	1x Nature's Claim	1x Anafenza, Kin-Tree Spirit
1x Exotic Orchard	1x Path to Exile	1x Arbor Elf
1x Flooded Strand	1x Pyroblast	1x Avacyn's Pilgrim
1x Forbidden Orchard	1x Red Elemental Blast	1x Aven Mindcensor
1x Forest	1x Silence	1x Birds of Paradise
1x Gaea's Cradle	1x Swords to Plowshares	1x Blood Artist
1x Gemstone Caverns	1x Vampiric Tutor	1x Bloodthrone Vampire
1x Gemstone Mine	1x Worldly Tutor	1x Body Snatcher
1x Godless Shrine		1x Boreal Druid
1x Mana Confluence	<b>Enchantment (7)</b>	1x Carrion Feeder
1x Marsh Flats	1x Animate Dead	1x Caustic Caterpillar
1x Misty Rainforest	1x Carpet of Flowers	1x Dark Confidant
1x Overgrown Tomb	1x Goblin Bombardment	1x Deathrite Shaman
1x Plains	1x Necromancy	1x Dross Hopper
1x Plateau	1x Pattern of Rebirth	1x Elves of Deep Shadow
1x Polluted Delta	1x Survival of the Fittest	1x Elvish Mystic
1x Savannah	1x Sylvan Library	1x Elvish Spirit Guide
1x Scrubland		1x Fyndhorn Elves
1x Swamp	<b>Sorcery (6)</b>	1x Golgari Thug
1x Taiga	1x Demonic Tutor	1x Grand Abolisher
1x Tarnished Citadel	1x Diabolic Intent	1x Hushwing Gryff
1x Temple Garden	1x Eldritch Evolution	1x Leonin Relic-Warder
1x Verdant Catacombs	1x Imperial Seal	1x Llanowar Elves
1x Windswept Heath	1x Natural Order	1x Murderous Redcap
1x Wooded Foothills	1x Sylvan Tutor	1x Protean Hulk
		1x Viscera Seer

## 4.59 Tazri Hulk

Deck Link: <http://tappedout.net/mtg-decks/tazri-hulk-druid/>

Discord Url: N/A

Author: biopouvoir (<https://tappedout.net/users/biopouvoir>)

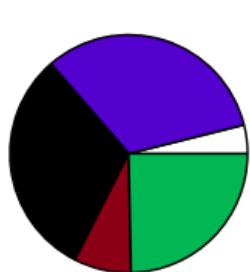
Commander(s): General Tazri

Color: WUBRG (W: 3 3.9% U: 25 32.5% B: 24 31.2% R: 6 7.8% G: 19 24.7%)

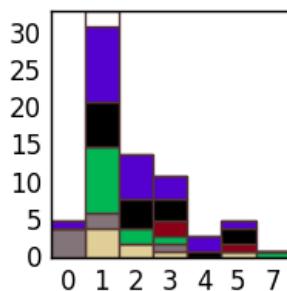
Avg. CMC: 1.92

Interaction Ratio: 0.56

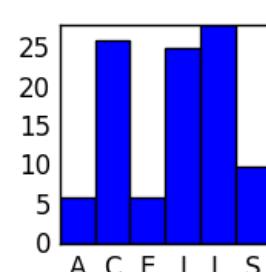
Cumulative CMC: 0: 0.07%, 1: 0.53%, 2: 0.72%, 3: 0.88%, 4: 0.92%, 5: 0.99%, 7: 1.00%



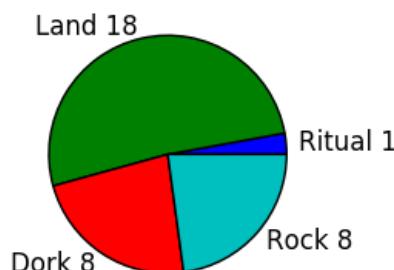
(a) Mana Pie



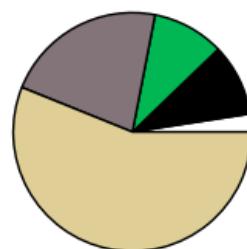
(b) CMC



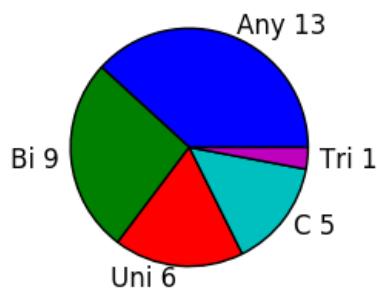
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 89: Tazri Hulk

Decklist: Tazri Hulk, Cockatrice Hash: eaikq7om

<b>Commander (1)</b>	<b>Instant (25)</b>	<b>Sorcery (10)</b>
1x General Tazri	1x Abrupt Decay 1x Ad Nauseam 1x Brainstorm 1x Chain of Vapor 1x Dark Ritual 1x Demonic Consultation 1x Enlightened Tutor 1x Entomb 1x Fire Covenant 1x Flash 1x Flash of Insight 1x Force of Will 1x Lim-Dûl's Vault 1x Memory's Journey 1x Mental Misstep 1x Mystical Tutor 1x Nature's Claim 1x Noxious Revival 1x Pact of Negation 1x Spell Pierce 1x Stifle 1x Swan Song 1x Swords to Plowshares 1x Tainted Pact 1x Vampiric Tutor	1x Cabal Therapy 1x Demonic Tutor 1x Dread Return 1x Gitaxian Probe 1x Green Sun's Zenith 1x Imperial Seal 1x Ponder 1x Timetwister 1x Windfall 1x Yawgmoth's Will
<b>Land (28)</b>		<b>Artifact (6)</b>
1x Arid Mesa 1x Bayou 1x Bloodstained Mire 1x Breeding Pool 1x City of Brass 1x Command Tower 1x Dryad Arbor 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Gemstone Mine 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Polluted Delta 1x Savannah 1x Scalding Tarn 1x Scrubland 1x Tarnished Citadel 1x Tropical Island 1x Tundra 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath 1x Wooded Foothills	1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring	
	<b>Enchantment (6)</b>	<b>Creature (24)</b>
	1x Carpet of Flowers 1x Food Chain 1x Mystic Remora 1x Necromancy 1x Necropotence 1x Sylvan Library	1x Avacyn's Pilgrim 1x Birds of Paradise 1x Boreal Druid 1x Dark Confidant 1x Deathrite Shaman 1x Elves of Deep Shadow 1x Elvish Mystic 1x Eternal Scourge 1x Fatestitcher 1x Fyndhorn Elves 1x Gilded Drake 1x Goblin Dark-Dwellers 1x Hagra Diabolist 1x Halimar Excavator 1x Hellraiser Goblin 1x Hermit Druid 1x Kalastria Healer 1x Laboratory Maniac 1x Llanowar Elves 1x Misthollow Griffin 1x Narcomoeba 1x Noble Hierarch 1x Protean Hulk 1x Squee, the Immortal

## 4.60 Teferi Chain Veil

Deck Link: <https://tappedout.net/mtg-decks/chain-veil-teferi/>

Discord Url: <https://discord.gg/3Y6CDyf>

Author: LabManiac\_Sigi ([https://tappedout.net/users/LabManiac\\_Sigi](https://tappedout.net/users/LabManiac_Sigi))

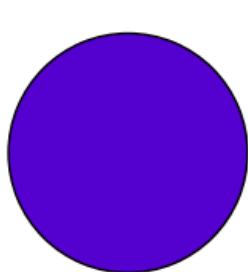
Commander(s): Teferi, Temporal Archmage

Color: U (U: 68 100.0%)

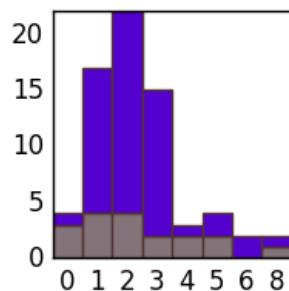
Avg. CMC: 2.41

Interaction Ratio: 0.51

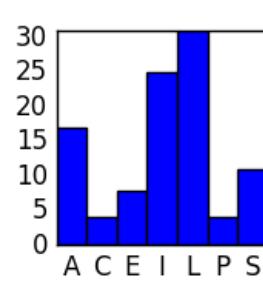
Cumulative CMC: 0: 0.06%, 1: 0.30%, 2: 0.62%, 3: 0.84%, 4: 0.88%, 5: 0.94%, 6: 0.97%, 8: 1.00%



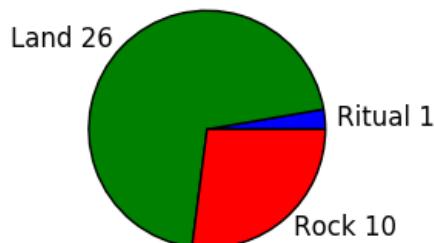
(a) Mana Pie



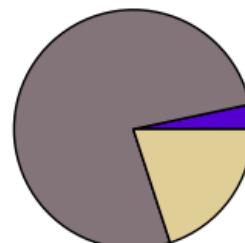
(b) CMC



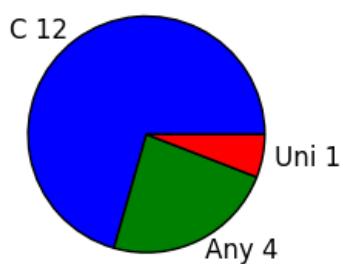
(c) Card Type



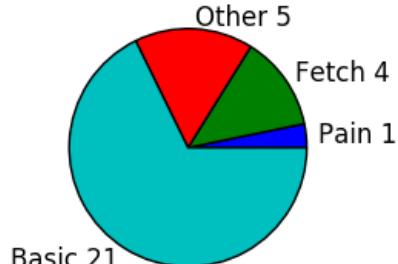
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 90: Teferi Chain Veil

Decklist: Teferi Chain Veil, Cockatrice Hash: h0gsl5uh

<b>Commander (1)</b>	<b>Instant (25)</b>	<b>Artifact (17)</b>
1x Teferi, Temporal Archmage	1x Brainstorm 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Delay 1x Dig Through Time 1x Dispel 1x Fact or Fiction 1x Flusterstorm 1x Force of Will 1x High Tide 1x Impulse 1x Intuition 1x Mana Drain 1x Mental Misstep 1x Muddle the Mixture 1x Mystical Tutor 1x Narset's Reversal 1x Negate 1x Pact of Negation 1x Pull from Tomorrow 1x Pulse of the Grid 1x Stroke of Genius 1x Swan Song 1x Whir of Invention	1x Basalt Monolith 1x Chrome Mox 1x Cursed Totem 1x Fellwar Stone 1x Gilded Lotus 1x Grafdigger's Cage 1x Grim Monolith 1x Mana Crypt 1x Mana Vault 1x Memory Jar 1x Mox Diamond 1x Rings of Brightearth 1x Sapphire Medallion 1x Sensei's Divining Top 1x Sol Ring 1x The Chain Veil 1x Thran Dynamo
<b>Land (31)</b>		
1x Academy Ruins 1x Ancient Tomb 1x Blast Zone 1x Buried Ruin 1x Flooded Strand 1x Inventors' Fair 21x Island 1x Misty Rainforest 1x Polluted Delta 1x Scalding Tarn 1x The Tabernacle at Pendrell Vale		
<b>Enchantment (8)</b>		
1x Back to Basics 1x Copy Artifact 1x Legacy's Allure 1x Mystic Remora 1x Power Artifact 1x Rhystic Study 1x Stasis 1x Verity Circle		
<b>Sorcery (11)</b>		
1x Fabricate 1x Gitaxian Probe 1x Merchant Scroll 1x Ponder 1x Preordain 1x Reshape 1x Sleight of Hand 1x Time Spiral 1x Timetwister 1x Transmute Artifact 1x Windfall		
<b>Creature (4)</b>		
	1x Baral, Chief of Compliance 1x Gilded Drake 1x Spellseeker 1x Trinket Mage	
<b>Planeswalker (3)</b>		
1x Narset, Parter of Veils 1x Tezzeret the Seeker 1x Ugin, the Spirit Dragon		

## 4.61 Varolz Hulk

Deck Link: <https://tappedout.net/mtg-decks/varolz-hulk/?cat=type&sort=>

Discord Url: <https://discord.gg/NA4eTr>

Author: sickrobot (<https://tappedout.net/users/sickrobot>)

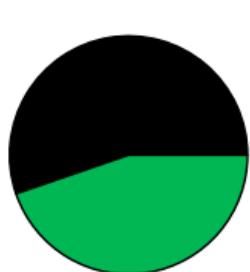
Commander(s): Varolz, the Scar-Striped

Color: BG (B: 42 55.3% G: 34 44.7%)

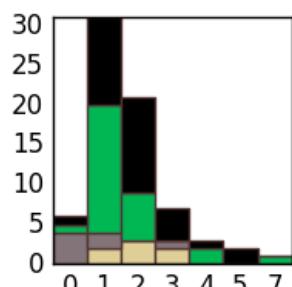
Avg. CMC: 1.73

Interaction Ratio: 0.42

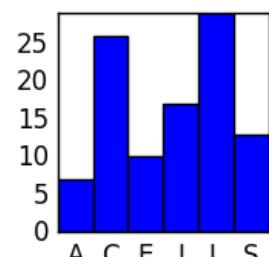
Cumulative CMC: 0: 0.08%, 1: 0.52%, 2: 0.82%, 3: 0.92%, 4: 0.96%, 5: 0.99%, 7: 1.00%



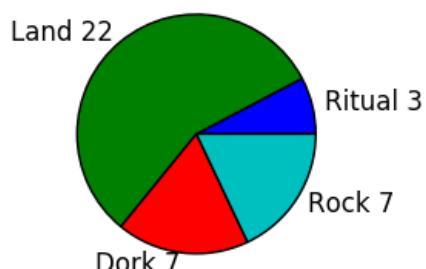
(a) Mana Pie



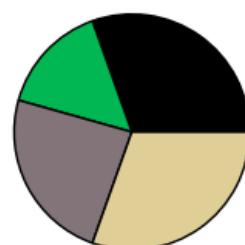
(b) CMC



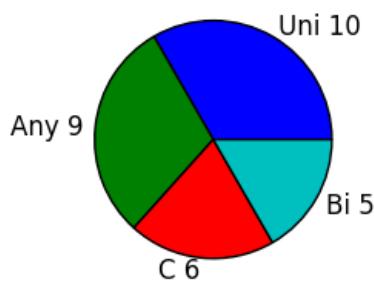
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 91: Varolz Hulk

Decklist: Varolz Hulk, Cockatrice Hash: ulagic76

<b>Commander (1)</b>	<b>Instant (17)</b>	<b>Artifact (6)</b>
1x Varolz, the Scar-Striped	1x Abrupt Decay 1x Ad Nauseam 1x Assassin's Trophy 1x Autumn's Veil 1x Cabal Ritual 1x Crop Rotation 1x Culling the Weak 1x Dark Ritual 1x Entomb 1x Mausoleum Secrets 1x Nature's Claim 1x Rain of Filth 1x Shallow Grave 1x Slaughter Pact 1x Summoner's Pact 1x Vampiric Tutor 1x Worldly Tutor	1x Chrome Mox 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Sol Ring
<b>Land (29)</b>		<b>Creature (24)</b>
1x Ancient Tomb 1x Bayou 1x Bloodstained Mire 1x Blooming Marsh 1x Cavern of Souls 1x City of Brass 1x Command Tower 1x Dryad Arbor 4x Forest 1x Gaea's Cradle 1x Gemstone Caverns 1x Llanowar Wastes 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Overgrown Tomb 1x Phyrexian Tower 1x Polluted Delta 4x Swamp 1x Twilight Mire 1x Verdant Catacombs 1x Windswept Heath 1x Wooded Foothills	1x Apprentice Necromancer 1x Arbor Elf 1x Birds of Paradise 1x Body Snatcher 1x Boreal Druid 1x Caustic Caterpillar 1x Dark Confidant 1x Deathrite Shaman 1x Disciple of the Vault 1x Elves of Deep Shadow 1x Elvish Mystic 1x Fauna Shaman 1x Fyndhorn Elves 1x Golgari Thug 1x Grim Flayer 1x Llanowar Elves 1x Melira, Sylvok Outcast 1x Mindblade Render 1x Priest of Titania 1x Protean Hulk 1x Riftsweeper 1x Sylvan Safekeeper 1x Viscera Seer 1x Wingrattle Scarecrow	
<b>Enchantment (10)</b>	<b>Sorcery (13)</b>	
1x Animate Dead 1x Carpet of Flowers 1x Dance of the Dead 1x Necromancy 1x Necropotence 1x Pattern of Rebirth 1x Survival of the Fittest 1x Sylvan Library 1x Utopia Sprawl 1x Wild Growth	1x Buried Alive 1x Cabal Therapy 1x Collective Brutality 1x Demonic Tutor 1x Diabolic Intent 1x Final Parting 1x Green Sun's Zenith 1x Grim Tutor 1x Imperial Seal 1x Life // Death 1x Natural Order 1x Reanimate 1x Thoughtseize	

## 4.62 Xantcha Combo-Control

Deck Link: <http://tappedout.net/mtg-decks/xantcha-combo-control/>

Discord Url: N/A

Author: mmcgeach (<https://tappedout.net/users/mmcgeach>)

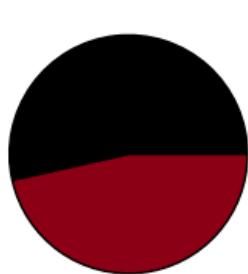
Commander(s): Xantcha, Sleeper Agent

Color: BR (B: 38 53.5% R: 33 46.5%)

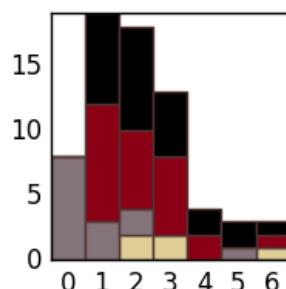
Avg. CMC: 2.10

Interaction Ratio: 0.34

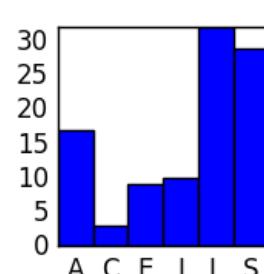
Cumulative CMC: 0: 0.12%, 1: 0.40%, 2: 0.66%, 3: 0.85%, 4: 0.91%, 5: 0.96%, 6: 1.00%



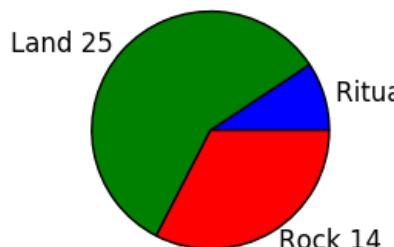
(a) Mana Pie



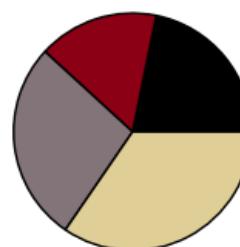
(b) CMC



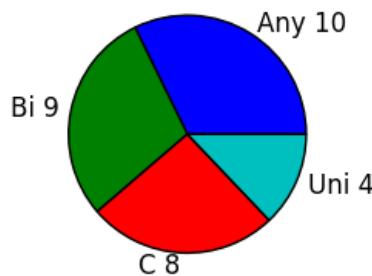
(c) Card Type



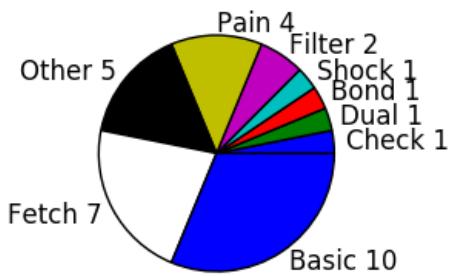
(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 92: Xantcha Combo-Control

Decklist: Xantcha Combo-Control, Cockatrice Hash: slvaghbn

<b>Commander (1)</b>	<b>Instant (10)</b>	<b>Sorcery (29)</b>
1x Xantcha, Sleeper Agent	1x Abrade 1x Ad Nauseam 1x Cabal Ritual 1x Chaos Warp 1x Dark Ritual 1x Entomb 1x Fire Covenant 1x Pyroblast 1x Seething Song 1x Vampiric Tutor	1x Bonus Round 1x Burning Inquiry 1x By Force 1x Cathartic Reunion 1x Damnation 1x Dark Petition 1x Demonic Tutor 1x Faithless Looting 1x Fiery Confluence 1x Finale of Promise 1x Gamble 1x Grim Tutor 1x Imperial Seal 1x Night's Whisper 1x Past in Flames 1x Pyroclasm 1x Reanimate 1x Rite of Flame 1x Rolling Earthquake 1x Shattering Spree 1x Sign in Blood 1x Sweltering Suns 1x Thoughtseize 1x Tormenting Voice 1x Toxic Deluge 1x Vandalblast 1x Wheel of Fortune 1x Whipflare 1x Yawgmoth's Will
<b>Land (32)</b>		
1x Ancient Tomb 1x Arid Mesa 1x Badlands 1x Blast Zone 1x Blood Crypt 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Dragonskull Summit 1x Exotic Orchard 1x Gemstone Caverns 1x Graven Cairns 1x Luxury Suite 1x Mana Confluence 1x Marsh Flats 2x Mountain 1x Polluted Delta 1x Scalding Tarn 1x Shadowblood Ridge 1x Sulfurous Springs 8x Swamp 1x Urborg, Tomb of Yawgmoth 1x Verdant Catacombs 1x Wooded Foothills		
<b>Enchantment (9)</b>		<b>Creature (2)</b>
1x Animate Dead 1x Blood Moon 1x Bloodchief Ascension 1x Chains of Mephistopheles 1x Dance of the Dead 1x Leyline of the Void 1x Necromancy 1x Necropotence 1x Waste Not		1x Sire of Insanity 1x Worldgorger Dragon

#### 4.63 Zuran Consultation

Deck Link: <http://tappedout.net/mtg-decks/zuran-consultation/>

Discord Url: <https://discord.gg/UDgq2QF>

Author: Nakhla (<https://tappedout.net/users/Nakhla>)

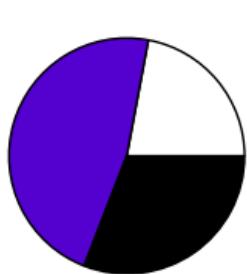
Commander(s): Zur the Enchanter

Color: WUB (W: 15 22.1% U: 32 47.1% B: 21 30.9%)

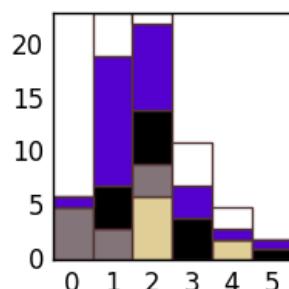
Avg. CMC: 1.89

Interaction Ratio: 0.66

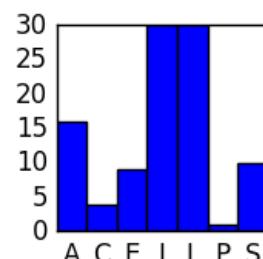
Cumulative CMC: 0: 0.09%, 1: 0.41%, 2: 0.74%, 3: 0.90%, 4: 0.97%, 5: 1.00%



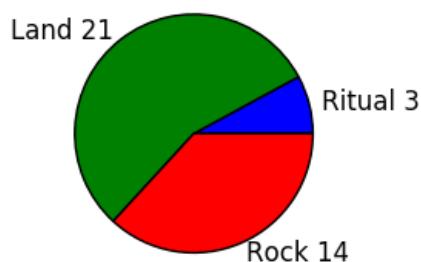
(a) Mana Pie



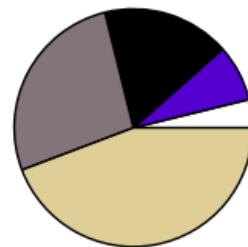
(b) CMC



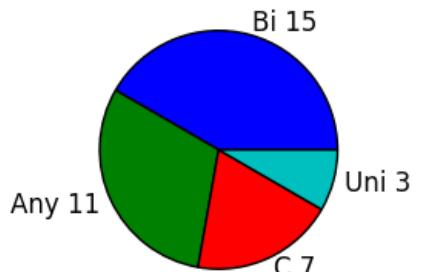
(c) Card Type



(d) Mana Producers



(e) Mana Base



(f) Mana Plurality



(g) Land Categories

Figure 93: Zuran Consultation

Decklist: Zuran Consultation, Cockatrice Hash: db4idg98

<b>Commander (1)</b>	<b>Instant (30)</b>	<b>Enchantment (9)</b>
1x Zur the Enchanter	1x Ad Nauseam 1x Angel's Grace 1x Brainstorm 1x Cabal Ritual 1x Chain of Vapor 1x Counterspell 1x Cyclonic Rift 1x Dark Ritual 1x Delay 1x Demonic Consultation 1x Dispel 1x Dramatic Reversal 1x Enlightened Tutor 1x Flusterstorm 1x Force of Will 1x Frantic Search 1x Into the Roil 1x Lim-Dûl's Vault 1x Mana Drain 1x Mental Misstep 1x Mystical Tutor 1x Negate 1x Pact of Negation 1x Plunge into Darkness 1x Silence 1x Spell Pierce 1x Swan Song 1x Swords to Plowshares 1x Tainted Pact 1x Vampiric Tutor	1x Aura of Silence 1x Copy Artifact 1x Grasp of Fate 1x Humility 1x Mystic Remora 1x Necropotence 1x Phyrexian Unlife 1x Rest in Peace 1x Smothering Tithe
<b>Land (30)</b>		<b>Sorcery (10)</b>
1x Adarkar Wastes 1x Ancient Tomb 1x Arid Mesa 1x Bloodstained Mire 1x City of Brass 1x Command Tower 1x Exotic Orchard 1x Flooded Strand 1x Forbidden Orchard 1x Gemstone Caverns 1x Godless Shrine 1x Hallowed Fountain 1x Island 1x Mana Confluence 1x Marsh Flats 1x Misty Rainforest 1x Morphic Pool 1x Polluted Delta 1x Scalding Tarn 1x Scrubland 1x Sea of Clouds 1x Snow-Covered Island 1x Snow-Covered Swamp 1x Tarnished Citadel 1x Tundra 1x Underground River 1x Underground Sea 1x Verdant Catacombs 1x Watery Grave 1x Windswept Heath		1x Demonic Tutor 1x Gitaxian Probe 1x Imperial Seal 1x Ponder 1x Praetor's Grasp 1x Preordain 1x Timetwister 1x Toxic Deluge 1x Windfall 1x Yawgmoth's Will
<b>Planeswalker (1)</b>	<b>Creature (3)</b>	<b>Artifact (16)</b>
1x Jace, the Mind Sculptor	1x Aven Mindcensor 1x Dark Confidant 1x Notion Thief	1x Azorius Signet 1x Chrome Mox 1x Cursed Totem 1x Dimir Signet 1x Fellwar Stone 1x Grim Monolith 1x Lotus Petal 1x Mana Crypt 1x Mana Vault 1x Mox Diamond 1x Mox Opal 1x Orzhov Signet 1x Sensei's Divining Top 1x Sol Ring 1x Talisman of Dominance 1x Talisman of Progress

## Appendix A Definitions and Calculations

**As related to card types and casting.** Sections 2.2 and 2.3 displays charts with Alternate and Reduced casting costs.

**Definition A.1.** Playability Ratio is the ratio of the number of decks a card is present in to the number of decks the card could be played in.

**Definition A.2.** Alternate Casting Cost is identified by the phrase "rather than pay[ing] [its]this spell's] mana cost" and includes cards with Phyrexian Mana in the casting cost.

**Definition A.3.** Reduced Casting Cost is calculated by finding any keyword or ability word that reduces the casting cost i.e. Madness or Improvise. In all cases (except Emerge, Offering) the max allowable reduction is assumed. For example, consider Improvise: the RCC of Barricade Breaker<sup>10</sup> is 0 but the RCC of Bastion Inventor<sup>11</sup> is U because it is assumed that the caster has enough artifacts to tap for the amount of colorless mana. RCC also takes into account cards that untap lands upon casting or ETB (but at present does not consider Planeswalkers that can untap lands via an activation).

**Definition A.4.** Multiple Mana cards have two or more colored mana symbols in the casting cost.

**As related to lands.** Sections 2.2.1 and 3 as well as the decklists in Section 4 show charts on lands. Where possible, I have attempted to use the official terms, only using commonly accepted slang if necessary. In some case, I have used terms not used by the community to avoid confusion.

**Definition A.5.** Land Plurality defines the color/type of mana that can be produced by the land (also applies to Rocks, Dorks and Rituals):

1. None: does not produce mana
2. Colorless: can only produce colorless mana
3. Uni: can produce a single colored mana (in some cases can produce colorless mana as well)
4. Bi: can produce one of two colored mana
5. Tri: can produce one of three colored mana
6. Any: can produce any colored mana (or type as in the case of Reflecting Pool<sup>12</sup>). Does not consider restrictions as i.e Command Tower<sup>13</sup> or Exotic Orchard<sup>14</sup>.

**Definition A.6.** Utility Land have abilities or effects other than producing mana. They are broken down into categories identified by one or more criteria as follows:

1. Activated: lands with non-mana activated abilities
2. Additional Cost: (Add. cost) lands that require an additional cost to add mana i.e. Phyrexian Tower<sup>15</sup> or activate a non-mana ability. This excludes Pain, Sac and Sac Depletion lands.

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<sup>10</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=423811>

<sup>11</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=423697>

<sup>12</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=382342>

<sup>13</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=451195>

<sup>14</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=446986>

<sup>15</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=456844>

3. Trigger: lands that have a triggered ability
4. Kw/AW: lands with keywords or ability words
5. Non-mana: lands that have no mana abilities
6. Multi-type: lands that have an additional type i.e. Dryad Arbor<sup>16</sup>
7. Grants: any land that "grants" a trigger i.e. The Tabernacle at Pendrell Vale<sup>17</sup> or a type, ability etc i.e. Urborg, Tomb of Yawgmoth<sup>18</sup>

**Definition A.7.** Land Categories are identified using the definitions found at <https://mtg.gamepedia.com> and are broken down as follows:

1. Basic: Plains, Mountain, Island, Swamp, Forest, Wastes
2. Dual: in this survey, dual lands refer only to the ten original rare lands printed from Alpha to Revised. They are bi-lands with two basic land types.
3. Tainted: bilands that tap for C., If the player controls a Swamp, they can tap for B or a second color depending on the individual card.
4. Bounce: lands which enter tapped and have a higher mana production (taps for 2 mana), but bounce one land back to the owner's hand on etb. Lands from the Visions require an untapped land of specified basic type be returned to hand.
5. Conditional Lands enter tapped unless a condition exists/is met
  - (a) Shock: bi-lands with two basic land types and a static replacement ability that causes it to enter tapped unless its controller pays two life
  - (b) Reveal: bi-land that enters tapped unless its controller reveals a card hand. Combines tribal taplands (reveal a card with specified creature type) and "regular" (reveal a card of the specified land type)
  - (c) Battle: bi-lands with two basic land types that enter tapped unless its controller has two or more basic lands
  - (d) Bond: bi-lands that enter tapped unless there are two or more opponents
  - (e) Fast: (a.k.a. Scar) bi-land that enters tapped unless its controller has two or fewer other lands
  - (f) Check: enters tapped unless you control a basic land, corresponding w/ either color the land can produce
6. Slow: bi-land that taps for C or a colored mana. If tapped for colored mana, does not untap during controller's next untap step.
7. Slow Depletion: bi-land that taps for C or a colored mana. If tapped for a colored, mana puts a depletion counter on it which is removed during the upkeep. It does not untap during the untap step if there is a depletion counter on it

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<sup>16</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=282542>

<sup>17</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=201236>

<sup>18</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=456850>

8. Scry: bi-land that enters tapped and controller scrys on ETB.
9. Cycling: lands with the cycling keyword. Color cycling lands enter tapped. A subset is one of the 5 Amonkhet bicycling lands
10. Activated abilities (mana or non-mana)
  - (a) Filter: takes one (or more) mana and produces a combination of one or more colored mana.
  - (b) Man: can turn itself into a creature
  - (c) Fetch: lands that can be sacrificed to search their controller's library for a land of a specific basic land type
  - (d) Pain: deals damage (or requires life) when tapped for colored mana
  - (e) Threshold: considered a subset of Pain lands. A uni-land that deals damage when tapped. Has an activated ability requiring Threshold and sacrificing the land
  - (f) Sac: (slang) taplands which can be tapped to for mana or tapped and sacrificed to produce one mana of any color or two colored mana. Crystal Vein<sup>19</sup> does not enter tapped.
  - (g) Sac Depletion: lands that enter with counters, whenever the land is tapped for mana, a counter is removed. When there are no more counters, the land is sacrificed
  - (h) Charge: lands that enter with charge counter(s). Remove a charge counter to add one mana of any color
  - (i) Strip: has an activated ability requiring sacrifice (and possibly paying mana) to destroy target land

**As related to deck listings.** Sections 4 displays information and charts on each deck.

**Definition A.8.** Cumulative CMC calculates the percentage of cards up to and including each CMC from 0 to the highest CMC in the deck.

**Definition A.9.** Mana Producer breaks down the decks mana producers into lands, dorks (creatures), rocks (noncreature artifacts and enchantments) and rituals (instants or sorceries). This does not count lands that do not produce mana, such as fetch lands. Note at present it does not count cards like High Tide<sup>20</sup> or Rain of Filth<sup>21</sup> that do not produce mana in and off themselves but "grant" the ability.

**Definition A.10.** Mana Plurality is the same as land plurality but applies to all mana producers in the deck.

**Definition A.11.** Interaction Ratio (IR) is ratio of nonland interactive cards to nonland cards where interactive is defined as any card that is an instant, has flash or a non-mana activated ability that can be activated on opponent's turns.

**Definition A.12.** Color Identity the color or colors of any mana symbols in the card's mana cost or rules text, plus any colors defined by its characteristic-defining abilities or color indicator.

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<sup>19</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=270466>

<sup>20</sup><https://gatherer.wizards.com/pages/card/Details.aspx?multiverseid=1872>

<sup>21</sup><https://gatherer.wizards.com/Pages/Card/Details.aspx?multiverseid=5831>

**Definition A.13.** Mana Base the mana base of a deck is calculated as the "optimal" mana that could be produced by all of a deck's mana producers at one time. The optimal mana of a mana producer is calculated via the following heuristics:

1. if it could produce colorless or colored mana, returns the amount of colored mana (even if the amount of colorless is greater).
2. if it could produce X of one color and Y of another color, returns whichever is greatest.
3. if it could produce any number of colored mana, returns Gold.

## Appendix B Tables

### B.1 Tables for Section 2.1 Cards By Color Identity

Table 5: W sorted by count

Card	Decks	Type	Mana Cost
Enlightened Tutor	29	Instant	W
Silence	23	Instant	W
Swords to Plowshares	17	Instant	W
Aven Mindcensor	14	Creature	2W
Angel's Grace	12	Instant	W
Grand Abolisher	9	Creature	WW
Auriok Salvagers	8	Creature	3W
Leonin Relic-Warder	6	Creature	WW
Smothering Tithe	5	Enchantment	3W
Linvala, Keeper of Silence	5	Creature	2WW
Nomads en-Kor	5	Creature	W
Rest in Peace	4	Enchantment	1W
Eidolon of Rhetoric	4	Enchantment	2W
Stony Silence	4	Enchantment	1W
Angel of Glory's Rise	4	Creature	5WW
Ethersworn Canonist	4	Artifact Creature	1W
Alms Collector	3	Creature	3W
Elesh Norn, Grand Cenobite	3	Creature	5WW
Aura of Silence	3	Enchantment	1WW
Grasp of Fate	3	Enchantment	1WW
Karmic Guide	3	Creature	3WW
Serra Ascendant	3	Creature	W
Thalia, Guardian of Thraben	3	Creature	1W
Warrior en-Kor	2	Creature	WW
Kataki, War's Wage	2	Creature	1W
Academy Rector	2	Creature	3W
Humility	2	Enchantment	2WW
Village Bell-Ringer	2	Creature	2W
Path to Exile	2	Instant	W
Shaman en-Kor	2	Creature	1W

Table 5: W sorted by count

Card	Decks	Type	Mana Cost
Felidar Guardian	2	Creature	3W
Children of Korlis	2	Creature	W
Hushwing Gryff	2	Creature	2W
Rule of Law	2	Enchantment	2W
Phyrexian Unlife	1	Enchantment	2W
Anafenza, Kin-Tree Spirit	1	Creature	WW
Mother of Runes	1	Creature	W
Sun Titan	1	Creature	4WW
Pull from Eternity	1	Instant	W
Ravages of War	1	Sorcery	3W
Weathered Wayfarer	1	Creature	W
Blind Obedience	1	Enchantment	1W
Mana Tithe	1	Instant	W
Fragmentize	1	Sorcery	W
Suppression Field	1	Enchantment	1W
Sacred Guide	1	Creature	W
Spirit of the Labyrinth	1	Enchantment Creature	1W
Luminarch Ascension	1	Enchantment	1W
Hokori, Dust Drinker	1	Creature	2WW
Urza's Ruinous Blast	1	Sorcery	4W
Fiend Hunter	1	Creature	1WW
Armageddon	1	Sorcery	3W

Table 6: B sorted by count

Card	Decks	Type	Mana Cost
Demonic Tutor	51	Sorcery	1B
Vampiric Tutor	51	Instant	B
Imperial Seal	50	Sorcery	B
Dark Confidant	39	Creature	1B
Dark Ritual	37	Instant	B
Ad Nauseam	34	Instant	3BB
Yawgmoth's Will	27	Sorcery	2B
Toxic Deluge	26	Sorcery	2B
Necropotence	26	Enchantment	BBB
Diabolic Intent	23	Sorcery	1B
Cabal Ritual	23	Instant	1B
Entomb	23	Instant	B
Tainted Pact	20	Instant	1B
Necromancy	18	Enchantment	2B
Animate Dead	18	Enchantment	1B
Reanimate	16	Sorcery	B
Demonic Consultation	15	Instant	B
Dance of the Dead	12	Enchantment	1B
Praetor's Grasp	11	Sorcery	1BB

Table 6: B sorted by count

Card	Decks	Type	Mana Cost
Cabal Therapy	10	Sorcery	B
Plunge into Darkness	10	Instant	1B
Grim Tutor	9	Sorcery	1BB
Razaketh, the Foulblooded	9	Creature	5BBB
Thoughtseize	8	Sorcery	B
Dark Petition	8	Sorcery	3BB
Culling the Weak	8	Instant	B
Buried Alive	7	Sorcery	2B
Rain of Filth	7	Instant	B
Viscera Seer	6	Creature	B
Dread Return	6	Sorcery	2BB
Apprentice Necromancer	5	Creature	1B
Blood Artist	5	Creature	1B
Night's Whisper	5	Sorcery	1B
Doomsday	5	Sorcery	BBB
Shallow Grave	5	Instant	1B
Body Snatcher	4	Creature	2BB
Blood Pet	4	Creature	B
Duress	4	Sorcery	B
Phyrexian Delver	3	Creature	3BB
Slaughter Pact	3	Instant	0
Mindblade Render	3	Creature	1B
Leyline of the Void	3	Enchantment	2BB
Inquisition of Kozilek	3	Sorcery	B
Necrotic Ooze	3	Creature	2BB
Carrion Feeder	3	Creature	B
Nihil Spellbomb	3	Artifact	1
Waste Not	3	Enchantment	1B
Massacre	3	Sorcery	2BB
Zulaport Cutthroat	3	Creature	1B
Postmortem Lunge	3	Sorcery	XB/P
Exhume	3	Sorcery	1B
Sickening Dreams	2	Sorcery	1B
Damnation	2	Sorcery	2BB
Skirge Familiar	2	Creature	4B
Golgari Thug	2	Creature	1B
Kalastrgia Healer	2	Creature	1B
Deathmark	2	Sorcery	B
Collective Brutality	2	Sorcery	1B
Mikaeus, the Unhallowed	2	Creature	3BBB
Bloodthrone Vampire	2	Creature	1B
Bubbling Muck	2	Sorcery	B
Exsanguinate	2	Sorcery	XBB
Bolas's Citadel	2	Artifact	3BBB
Overeager Apprentice	2	Creature	2B

Table 6: B sorted by count

Card	Decks	Type	Mana Cost
Hagra Diabolist	2	Creature	4B
Sidisi, Undead Vizier	2	Creature	3BB
Dimir Machinations	1	Sorcery	2B
Gray Merchant of Asphodel	1	Creature	3BB
Yahenni's Expertise	1	Sorcery	2BB
Mindslicer	1	Creature	2BB
Plaguecrafter	1	Creature	2B
Dross Hopper	1	Creature	1B
Unearth	1	Sorcery	B
Leaden Myr	1	Artifact Creature	2
Victimize	1	Sorcery	2B
Sacrifice	1	Instant	B
Contamination	1	Enchantment	2B
Songs of the Damned	1	Instant	B
Bloodchief Ascension	1	Enchantment	B
Bloodghast	1	Creature	BB
Chains of Mephistopheles	1	Enchantment	1B
Corpse Dance	1	Instant	2B
Blighted Bat	1	Creature	2B
Mausoleum Secrets	1	Instant	1B
Reassembling Skeleton	1	Creature	1B
Oppression	1	Enchantment	1BB
Goryo's Vengeance	1	Instant	1B
Footsteps of the Goryo	1	Sorcery	2B
Sign in Blood	1	Sorcery	BB
Disciple of the Vault	1	Creature	B
Mogis's Marauder	1	Creature	2B
Putrid Imp	1	Creature	B
Fleshbag Marauder	1	Creature	2B
Oblivion Crown	1	Enchantment	1B
Darkblast	1	Instant	B
Final Parting	1	Sorcery	3BB

Table 7: U sorted by count

Card	Decks	Type	Mana Cost
Mystical Tutor	46	Instant	U
Mystic Remora	45	Enchantment	U
Brainstorm	44	Instant	U
Mental Misstep	44	Instant	U/P
Swan Song	43	Instant	U
Pact of Negation	40	Instant	0
Force of Will	40	Instant	3UU
Ponder	40	Sorcery	U
Flusterstorm	39	Instant	U

Table 7: U sorted by count

Card	Decks	Type	Mana Cost
Mana Drain	38	Instant	UU
Chain of Vapor	37	Instant	U
Dispel	36	Instant	U
Preordain	35	Sorcery	U
Delay	34	Instant	1U
Gitaxian Probe	31	Sorcery	U/P
Timetwister	30	Sorcery	2U
Cyclonic Rift	30	Instant	1U
Gilded Drake	26	Creature	1U
Windfall	26	Sorcery	2U
Dramatic Reversal	24	Instant	1U
Spell Pierce	23	Instant	U
Negate	21	Instant	1U
Counterspell	20	Instant	UU
Copy Artifact	19	Enchantment	1U
Frantic Search	17	Instant	2U
Narset's Reversal	16	Instant	UU
Intuition	16	Instant	2U
Laboratory Maniac	16	Creature	2U
Merchant Scroll	14	Sorcery	1U
Rhythmic Study	13	Enchantment	2U
Jace, Vryn's Prodigy	12	Creature	1U
Impulse	12	Instant	1U
Spellseeker	12	Creature	2U
Flash	10	Instant	1U
Winds of Rebuke	9	Instant	1U
Opt	8	Instant	U
Baral, Chief of Compliance	8	Creature	1U
Sleight of Hand	8	Sorcery	U
Narcomoeba	7	Creature	1U
High Tide	7	Instant	U
Snapcaster Mage	6	Creature	1U
Dig Through Time	6	Instant	6UU
Jace, Wielder of Mysteries	6	Planeswalker	1UUU
Narset, Parter of Veils	6	Planeswalker	1UU
Fact or Fiction	6	Instant	3U
Consecrated Sphinx	5	Creature	4UU
Into the Roil	5	Instant	1U
Reality Shift	5	Instant	1U
Jin-Gitaxias, Core Augur	5	Creature	8UU
Mind's Desire	5	Sorcery	4UU
Cephalid Illusionist	5	Creature	1U
Pongify	5	Instant	U
Memory's Journey	5	Instant	1U
Muddle the Mixture	5	Instant	UU

Table 7: U sorted by count

Card	Decks	Type	Mana Cost
Transmute Artifact	5	Sorcery	UU
Mana Leak	4	Instant	1U
Whir of Invention	4	Instant	XUUU
Gush	4	Instant	4U
Fatestitcher	4	Creature	3U
Chart a Course	4	Sorcery	1U
Snap	4	Instant	1U
Phantasmal Image	4	Creature	1U
Training Grounds	3	Enchantment	U
Back to Basics	3	Enchantment	2U
Hurkyl's Recall	3	Instant	1U
Misthollow Griffin	3	Creature	2UU
Careful Study	3	Sorcery	U
Stroke of Genius	3	Instant	X2U
Pull from Tomorrow	3	Instant	XUU
Misdirection	3	Instant	3UU
Rapid Hybridization	3	Instant	U
Cloud of Faeries	2	Creature	1U
Spellskite	2	Artifact Creature	2
Personal Tutor	2	Sorcery	U
Legacy's Allure	2	Enchantment	UU
Curiosity	2	Enchantment	U
Stifle	2	Instant	U
Halimar Excavator	2	Creature	1U
Time Spiral	2	Sorcery	4UU
Flash of Insight	2	Instant	X1U
Remand	2	Instant	1U
Aether Spellbomb	2	Artifact	1
Deep Analysis	2	Sorcery	3U
Fabricate	2	Sorcery	2U
Foresight	2	Sorcery	1U
Manipulate Fate	2	Sorcery	1U
Treasure Cruise	2	Sorcery	7U
Hapless Researcher	2	Creature	U
Verity Circle	2	Enchantment	2U
Siren Stormtamer	2	Creature	U
Freed from the Real	2	Enchantment	2U
Enter the Infinite	2	Sorcery	8UUUU
Ancestral Vision	2	Sorcery	0
Submerge	2	Instant	4U
Blue Sun's Zenith	2	Instant	XUUU
Obsessive Search	2	Instant	U
Power Artifact	2	Enchantment	UU
Nezahal, Primal Tide	1	Creature	5UU
Mausoleum Wanderer	1	Creature	U

Table 7: U sorted by count

Card	Decks	Type	Mana Cost
Stasis	1	Enchantment	1U
Sleight of Mind	1	Instant	U
Kiri-Onna	1	Creature	4U
Mulldrifter	1	Creature	4U
Manifold Insights	1	Sorcery	2U
Palinchron	1	Creature	5UU
Thought Scour	1	Instant	U
Mind Bend	1	Instant	U
Etherium Sculptor	1	Artifact Creature	1U
Serum Visions	1	Sorcery	U
Unified Will	1	Instant	1U
Body Double	1	Creature	4U
Mission Briefing	1	Instant	UU
Recurring Insight	1	Sorcery	4UU
Tetsuko Umezawa, Fugitive	1	Creature	1U
Search for Azcanta	1	Enchantment	1U
Loyal Drake	1	Creature	2U
Thirst for Knowledge	1	Instant	2U
Nightveil Sprite	1	Creature	1U
Time Warp	1	Sorcery	3UU
Reshape	1	Sorcery	XUU
Cephalid Inkshrouder	1	Creature	2U
Sky Diamond	1	Artifact	2
Capture of Jingzhou	1	Sorcery	3UU
Jace, the Mind Sculptor	1	Planeswalker	2UU
Temporal Mastery	1	Sorcery	5UU
Deceiver Exarch	1	Creature	2U
Thing in the Ice	1	Creature	1U
Slithermuse	1	Creature	2UU
Pestermite	1	Creature	2U
Triton Shorestalker	1	Creature	U
Unwind	1	Instant	2U
Gudul Lurker	1	Creature	U
Part the Waterveil	1	Sorcery	4UU
Mystic Confluence	1	Instant	3UU
Karn's Temporal Sundering	1	Sorcery	4UU
Rebuild	1	Instant	2U
Arcum Dagsson	1	Creature	3U
Turnabout	1	Instant	2UU
Teferi, Temporal Archmage	1	Planeswalker	4UU
Trait Doctoring	1	Sorcery	U
Diminishing Returns	1	Sorcery	2UU
Slither Blade	1	Creature	U
Counterbalance	1	Enchantment	UU
Devastation Tide	1	Sorcery	3UU

Table 7: U sorted by count

Card	Decks	Type	Mana Cost
Unsubstantiate	1	Instant	1U
Nexus of Fate	1	Instant	5UU
Temporal Trespass	1	Sorcery	8UUU
Faerie Miscreant	1	Creature	U
Predict	1	Instant	1U
Spectral Shift	1	Instant	1U
Extract	1	Sorcery	U
Quicken	1	Instant	U
Silver Myr	1	Artifact Creature	2
Spellstutter Sprite	1	Creature	1U
Notorious Throng	1	Sorcery	3U
Looter il-Kor	1	Creature	1U
Daze	1	Instant	1U
Trinket Mage	1	Creature	2U
Wingcrafter	1	Creature	U
Temporal Manipulation	1	Sorcery	3UU
Alter Reality	1	Instant	1U
Kederekt Leviathan	1	Creature	6UU
Show and Tell	1	Sorcery	2U
Sidisi's Faithful	1	Creature	U
Glamerdyne	1	Instant	1U
Peregrine Drake	1	Creature	4U
Anticipate	1	Instant	1U
Pulse of the Grid	1	Instant	1UU
Stubborn Denial	1	Instant	U
Whim of Volrath	1	Instant	U
Tezzeret the Seeker	1	Planeswalker	3UU
Walk the Aeons	1	Sorcery	4UU
Prohibit	1	Instant	1U
Mist-Cloaked Herald	1	Creature	U
Phyrexian Metamorph	1	Artifact Creature	3U/P
Intruder Alarm	1	Enchantment	2U

Table 8: G sorted by count

Card	Decks	Type	Mana Cost
Carpet of Flowers	42	Enchantment	G
Birds of Paradise	39	Creature	G
Sylvan Library	39	Enchantment	1G
Nature's Claim	35	Instant	G
Noxious Revival	35	Instant	G/P
Fyndhorn Elves	32	Creature	G
Arbor Elf	32	Creature	G
Llanowar Elves	31	Creature	G
Elvish Mystic	30	Creature	G

Table 8: G sorted by count

Card	Decks	Type	Mana Cost
Worldly Tutor	19	Instant	G
Wild Growth	19	Enchantment	G
Survival of the Fittest	18	Enchantment	1G
Priest of Titania	16	Creature	1G
Eternal Witness	15	Creature	1GG
Utopia Sprawl	15	Enchantment	G
Boreal Druid	14	Creature	G
Protean Hulk	13	Creature	5GG
Green Sun's Zenith	13	Sorcery	XG
Bloom Tender	13	Creature	1G
Crop Rotation	12	Instant	G
Summoner's Pact	10	Instant	0
Elvish Spirit Guide	10	Creature	2G
Regrowth	9	Sorcery	1G
Eldritch Evolution	8	Sorcery	1GG
Sylvan Safekeeper	8	Creature	G
Caustic Caterpillar	8	Creature	G
Runic Armasaur	8	Creature	1GG
Wall of Roots	7	Creature	1G
Exploration	7	Enchantment	G
Autumn's Veil	7	Instant	G
Riftsweeper	6	Creature	1G
Natural State	6	Instant	G
Hermit Druid	6	Creature	1G
Beast Within	6	Instant	2G
Finale of Devastation	5	Sorcery	XGG
Chord of Calling	5	Instant	XGGG
Quirion Ranger	5	Creature	G
Reclamation Sage	5	Creature	2G
Food Chain	5	Enchantment	2G
Natural Order	5	Sorcery	2GG
Yisan, the Wanderer Bard	5	Creature	2G
Root Maze	5	Enchantment	G
Sylvan Tutor	4	Sorcery	G
Birthing Pod	4	Artifact	3G/P
Pattern of Rebirth	4	Enchantment	3G
Devoted Druid	3	Creature	1G
Temur Sabertooth	3	Creature	2GG
Scavenging Ooze	3	Creature	1G
Bane of Progress	3	Creature	4GG
Seedborn Muse	3	Creature	3GG
Wirewood Symbiote	3	Creature	G
Druuids' Repository	2	Enchantment	1GG
Regal Force	2	Creature	4GGG
Keen Sense	2	Enchantment	G

Table 8: G sorted by count

Card	Decks	Type	Mana Cost
Rishkar, Peema Renegade	2	Creature	2G
Earthcraft	2	Enchantment	1G
Kraul Harpooner	2	Creature	1G
Wood Elves	2	Creature	2G
Weird Harvest	2	Sorcery	XGG
Nature's Will	2	Enchantment	2GG
Concordant Crossroads	2	Enchantment	G
Woodland Bellower	2	Creature	4GG
Azusa, Lost but Seeking	2	Creature	2G
Somberwald Stag	2	Creature	3GG
Mirri's Guile	2	Enchantment	G
Compost	2	Enchantment	1G
Life from the Loam	2	Sorcery	1G
Summer Bloom	2	Sorcery	1G
Manglehorn	2	Creature	2G
Selvala, Heart of the Wilds	2	Creature	1GG
Glimpse of Nature	2	Sorcery	G
Seasons Past	2	Sorcery	4GG
Song of the Dryads	2	Enchantment	2G
Scryb Ranger	2	Creature	1G
Squirrel Nest	2	Enchantment	1GG
Fauna Shaman	2	Creature	1G
Tooth and Nail	1	Sorcery	5GG
Prowling Serpopard	1	Creature	1GG
Harmonize	1	Sorcery	2GG
Great Oak Guardian	1	Creature	5G
Eladamri, Lord of Leaves	1	Creature	GG
Uncage the Menagerie	1	Sorcery	XGG
Benefactor's Draught	1	Instant	1G
Ravenous Slime	1	Creature	2G
Sylvan Ranger	1	Creature	1G
Kamahl, Fist of Krosa	1	Creature	4GG
Nature's Lore	1	Sorcery	1G
Gaea's Herald	1	Creature	1G
Greater Good	1	Enchantment	2GG
Sylvan Scrying	1	Sorcery	1G
Noose Constrictor	1	Creature	1G
Voyaging Satyr	1	Creature	1G
Tendershoot Dryad	1	Creature	4G
Gaea's Blessing	1	Sorcery	1G
Land Grant	1	Sorcery	1G
Bow of Nylea	1	Enchantment Artifact	1GG
Karametra's Acolyte	1	Creature	3G
Beastcaller Savant	1	Creature	1G
Berserk	1	Instant	G

Table 8: G sorted by count

Card	Decks	Type	Mana Cost
Sheltering Ancient	1	Creature	1G
Scryb Sprites	1	Creature	G
Dosan the Falling Leaf	1	Creature	1GG
Melira, Sylvok Outcast	1	Creature	1G
Generous Patron	1	Creature	2G
Garruk, Primal Hunter	1	Planeswalker	2GGG
Channeler Initiate	1	Creature	1G
Joraga Treespeaker	1	Creature	G
Reclaim	1	Instant	G
Craterhoof Behemoth	1	Creature	5GGG
Ramunap Excavator	1	Creature	2G
Krosan Wayfarer	1	Creature	G
Duskwatch Recruiter	1	Creature	1G
Somberwald Sage	1	Creature	2G
Deglamer	1	Instant	1G
Ravaging Riftwurm	1	Creature	1GG
Nettle Sentinel	1	Creature	G
Burgeoning	1	Enchantment	G
Genesis Hydra	1	Creature	XGG
Spire Tracer	1	Creature	G
Phytoburst	1	Sorcery	1G
City of Solitude	1	Enchantment	2G
Soul's Majesty	1	Sorcery	4G
Ancient Animus	1	Instant	1G
Xantid Swarm	1	Creature	G
Ulvenwald Tracker	1	Creature	G
Life's Legacy	1	Sorcery	1G
Might of Old Krosa	1	Instant	G
Genesis Wave	1	Sorcery	XGGG
Heart Warden	1	Creature	1G
Heritage Druid	1	Creature	G
Vizier of the Menagerie	1	Creature	3G
Bond Beetle	1	Creature	G
Birchlore Rangers	1	Creature	G
Sakura-Tribe Scout	1	Creature	G
Reap	1	Instant	1G
Beast Whisperer	1	Creature	2GG
Nantuko Tracer	1	Creature	1G
Invigorate	1	Instant	2G
Three Visits	1	Sorcery	1G
Groundswell	1	Instant	G
Treetop Scout	1	Creature	G
Elvish Visionary	1	Creature	1G
Lignify	1	Enchantment	1G
Vines of Vastwood	1	Instant	G

Table 8: G sorted by count

Card	Decks	Type	Mana Cost
Momentous Fall	1	Instant	2GG
Golgari Grave-Troll	1	Creature	4G
Rishkar's Expertise	1	Sorcery	4GG

Table 9: R sorted by count

Card	Decks	Type	Mana Cost
Pyroblast	19	Instant	R
Wheel of Fortune	19	Sorcery	2R
Gamble	16	Sorcery	R
Red Elemental Blast	12	Instant	R
Rolling Earthquake	9	Sorcery	XR
Faithless Looting	5	Sorcery	R
Squee, the Immortal	4	Creature	1RR
Worldgorger Dragon	4	Creature	3RRR
Seething Song	4	Instant	2R
Stranglehold	4	Enchantment	3R
Magus of the Moon	4	Creature	2R
Simian Spirit Guide	4	Creature	2R
Blood Moon	4	Enchantment	2R
Rite of Flame	4	Sorcery	R
Abrade	4	Instant	1R
Pyroclasm	3	Sorcery	1R
By Force	3	Sorcery	XR
Kiki-Jiki, Mirror Breaker	3	Creature	2RRR
Imperial Recruiter	3	Creature	2R
Shattering Spree	2	Sorcery	R
Winds of Change	2	Sorcery	R
Burning Inquiry	2	Sorcery	R
Whipflare	2	Sorcery	1R
Twinflame	2	Sorcery	1R
Past in Flames	2	Sorcery	3R
Bonus Round	2	Sorcery	1RR
Goblin Bombardment	2	Enchantment	1R
Final Fortune	2	Instant	RR
Sweltering Suns	2	Sorcery	1RR
Chaos Warp	2	Instant	2R
Vandalblast	2	Sorcery	R
Splinter Twin	2	Enchantment	2RR
Reckless Bushwhacker	1	Creature	2R
Finale of Promise	1	Sorcery	XRR
Goblin Matron	1	Creature	2R
Dragon Mage	1	Creature	5RR
Mass Hysteria	1	Enchantment	R
Possibility Storm	1	Enchantment	3RR

Table 9: R sorted by count

Card	Decks	Type	Mana Cost
Hellraiser Goblin	1	Creature	2R
Goblin Bushwhacker	1	Creature	R
Purphoros, God of the Forge	1	Enchantment Creature	3R
Infernal Plunge	1	Sorcery	R
Lightning Bolt	1	Instant	R
Goblin Sharpshooter	1	Creature	2R
Lightning Mauler	1	Creature	1R
Cathartic Reunion	1	Sorcery	1R
Wheel of Fate	1	Sorcery	0
Loyal Apprentice	1	Creature	1R
Need for Speed	1	Enchantment	R
Godo, Bandit Warlord	1	Creature	5R
Thunderclap	1	Instant	2R
Torch Courier	1	Creature	R
Daretti, Scrap Savant	1	Planeswalker	3R
Ricochet Trap	1	Instant	3R
Divergent Transformations	1	Instant	6R
Heat Shimmer	1	Sorcery	2R
Goblin Dark-Dwellers	1	Creature	3RR
Rending Volley	1	Instant	R
Skirk Prospector	1	Creature	R
Treasonous Ogre	1	Creature	3R
Goblin Welder	1	Creature	R
Mogg Salvage	1	Instant	2R
Gorilla Shaman	1	Creature	R
Dualcaster Mage	1	Creature	1RR
Maximize Velocity	1	Sorcery	R
Magnetic Theft	1	Instant	R
Tormenting Voice	1	Sorcery	1R
Insolent Neonate	1	Creature	R
Anger	1	Creature	3R
Fiery Confluence	1	Sorcery	2RR
Dire Fleet Daredevil	1	Creature	1R

Table 10: C sorted by count

Card	Decks	Type	Mana Cost
Mana Crypt	63	Artifact	0
Sol Ring	62	Artifact	1
Mox Diamond	61	Artifact	0
Chrome Mox	61	Artifact	0
Mana Vault	42	Artifact	1
Lotus Petal	39	Artifact	0
Sensei's Divining Top	33	Artifact	1
Fellwar Stone	32	Artifact	2

Table 10: C sorted by count

Card	Decks	Type	Mana Cost
Grim Monolith	31	Artifact	2
Mox Opal	26	Artifact	0
Lion's Eye Diamond	22	Artifact	0
Isochron Scepter	17	Artifact	2
Paradox Engine	16	Artifact	5
Grafdigger's Cage	10	Artifact	1
Cursed Totem	9	Artifact	2
Null Rod	8	Artifact	2
Aetherflux Reservoir	8	Artifact	4
Walking Ballista	7	Artifact Creature	XX
Hope of Ghirapur	6	Artifact Creature	1
Helm of Awakening	6	Artifact	2
Prismatic Lens	5	Artifact	2
Everflowing Chalice	5	Artifact	0
Memnite	5	Artifact Creature	0
Basalt Monolith	5	Artifact	3
Skullclamp	5	Artifact	1
Trinisphere	5	Artifact	3
Mox Amber	5	Artifact	0
Defense Grid	4	Artifact	2
Rings of Brightearth	4	Artifact	3
Thought Vessel	4	Artifact	2
Eternal Scourge	4	Creature	3
Scroll Rack	4	Artifact	2
Voltaic Key	4	Artifact	1
Phyrexian Revoker	4	Artifact Creature	2
Lightning Greaves	4	Artifact	2
Sapphire Medallion	4	Artifact	2
Sphere of Resistance	4	Artifact	2
Mind Stone	3	Artifact	2
Shield Sphere	3	Artifact Creature	0
Staff of Domination	3	Artifact	3
Ornithopter	3	Artifact Creature	0
Phyrexian Walker	2	Artifact Creature	0
Candelabra of Tawnos	2	Artifact	1
Shuko	2	Artifact	1
Serum Powder	2	Artifact	3
Kozilek's Return	2	Instant	2R
Fractured Powerstone	2	Artifact	2
Ugin, the Spirit Dragon	2	Planeswalker	8
Expedition Map	2	Artifact	1
Metalworker	2	Artifact Creature	3
Shimmer Myr	2	Artifact Creature	3
Tangle Wire	2	Artifact	3
Altar of Dementia	2	Artifact	2

Table 10: C sorted by count

Card	Decks	Type	Mana Cost
Memory Jar	2	Artifact	5
Myr Moonvessel	2	Artifact Creature	1
Umbral Mantle	2	Artifact	3
Springleaf Drum	2	Artifact	1
Lotus Bloom	2	Artifact	0
Codex Shredder	2	Artifact	1
Thorn of Amethyst	2	Artifact	2
Winter Orb	2	Artifact	2
Thousand-Year Elixir	2	Artifact	3
Jeweled Amulet	2	Artifact	0
Jet Medallion	2	Artifact	2
Kozilek, Butcher of Truth	2	Creature	10
Thran Dynamo	2	Artifact	4
The Chain Veil	1	Artifact	4
Myr Retriever	1	Artifact Creature	2
Wingrattle Scarecrow	1	Artifact Creature	3
Wayfarer's Bauble	1	Artifact	1
Argentum Armor	1	Artifact	6
Phyrexian Dreadnought	1	Artifact Creature	1
Chromatic Sphere	1	Artifact	1
Krark-Clan Ironworks	1	Artifact	4
Welding Jar	1	Artifact	0
Pithing Needle	1	Artifact	1
Hedron Crawler	1	Artifact Creature	2
Panharmonicon	1	Artifact	4
Plague Myr	1	Artifact Creature	2
Junk Diver	1	Artifact Creature	3
Chalice of the Void	1	Artifact	XX
Honor-Worn Shaku	1	Artifact	3
Worn Powerstone	1	Artifact	3
Lupine Prototype	1	Artifact Creature	2
Ancestral Statue	1	Artifact Creature	4
Arcbound Ravager	1	Artifact Creature	2
Mishra's Bauble	1	Artifact	0
Urza's Bauble	1	Artifact	0
Guardian Idol	1	Artifact	2
Engineered Explosives	1	Artifact	X
Thought-Knot Seer	1	Creature	3C
Phyrexian Soulgorger	1	Artifact Creature	3
Brass Squire	1	Artifact Creature	3
Hammer of Nazahn	1	Artifact	4
Phyrexian Devourer	1	Artifact Creature	6
Palladium Myr	1	Artifact Creature	3
Altar of the Brood	1	Artifact	1
Gilded Lotus	1	Artifact	5

Table 10: C sorted by count

Card	Decks	Type	Mana Cost
Spine of Ish Sah	1	Artifact	7
Citanul Flute	1	Artifact	5
Chromatic Star	1	Artifact	1
Duplicant	1	Artifact Creature	6
Blisterpod	1	Creature	G
Hangarback Walker	1	Artifact Creature	XX
Conjurer's Bauble	1	Artifact	1
Manakin	1	Artifact Creature	2
Astral Cornucopia	1	Artifact	XXX
Spawning Pit	1	Artifact	2
Static Orb	1	Artifact	3
Smothering Abomination	1	Creature	2BB
Karn, the Great Creator	1	Planeswalker	4
Helm of the Host	1	Artifact	4
Scrap Trawler	1	Artifact Creature	3

Table 11: O sorted by count

Card	Decks	Type	Mana Cost
Lim-Dûl's Vault	34	Instant	UB
Deathrite Shaman	33	Creature	B/G
Abrupt Decay	30	Instant	BG
Elves of Deep Shadow	26	Creature	G
Notion Thief	23	Creature	2UB
Talisman of Dominance	22	Artifact	2
Assassin's Trophy	22	Instant	BG
Avacyn's Pilgrim	20	Creature	G
Tymna the Weaver	20	Creature	1WB
Fire Covenant	19	Instant	1BR
Dimir Signet	18	Artifact	2
Noble Hierarch	17	Creature	G
Thrasios, Triton Hero	14	Creature	GU
Dovin's Veto	10	Instant	WU
Eladamri's Call	10	Instant	GW
Talisman of Progress	9	Artifact	2
Life // Death	9	Sorcery	G // 1B
Izzet Signet	8	Artifact	2
Talisman of Indulgence	8	Artifact	2
Simic Signet	7	Artifact	2
Azorius Signet	5	Artifact	2
Vial Smasher the Fierce	4	Creature	1BR
Vexing Shusher	4	Creature	R/GR/G
Dack Fayden	4	Planeswalker	1UR
Wear // Tear	3	Instant	1R // W
Izzet Charm	3	Instant	UR

Table 11: O sorted by count

Card	Decks	Type	Mana Cost
Kess, Dissident Mage	3	Creature	1UBR
Ashiok, Dream Render	3	Planeswalker	1U/BU/B
Zur the Enchanter	3	Creature	1WUB
Neoform	3	Sorcery	GU
Mnemonic Betrayal	3	Sorcery	1UB
Manamorphose	3	Instant	1R/G
Orcish Lumberjack	3	Creature	R
Tana, the Bloodsower	3	Creature	2RG
Orzhov Signet	3	Artifact	2
Kraum, Ludevic's Opus	3	Creature	3UR
Pernicious Deed	3	Enchantment	1BG
Yidris, Maelstrom Wielder	2	Creature	UBRG
Najeela, the Blade-Blossom	2	Creature	2R
Wild Cantor	2	Creature	R/G
Golgari Signet	2	Artifact	2
Derevi, Empyrial Tactician	2	Creature	GWU
Tasigur, the Golden Fang	2	Creature	5B
Squandered Resources	2	Enchantment	BG
General Tazri	2	Creature	4W
Rakdos Signet	2	Artifact	2
Edric, Spymaster of Trest	2	Creature	1GU
Anafenza, the Foremost	2	Creature	WBG
Breya, Etherium Shaper	2	Artifact Creature	WUBR
Azra Oddsmaker	2	Creature	1BR
Guttural Response	2	Instant	R/G
Sire of Insanity	2	Creature	4BR
Captain Sisay	1	Creature	2GW
Saffi Eriksdotter	1	Creature	GW
Dimir Charm	1	Instant	UB
Sparkcaster	1	Creature	2RG
Tishana, Voice of Thunder	1	Creature	5GU
Kiora's Follower	1	Creature	GU
Varolz, the Scar-Striped	1	Creature	1BG
Ikra Shidiqi, the Usurper	1	Creature	3BG
Meren of Clan Nel Toth	1	Creature	2BG
Qasali Pridemage	1	Creature	GW
Circu, Dimir Lobotomist	1	Creature	2UB
Thousand-Year Storm	1	Enchantment	4UR
Altar of Bone	1	Sorcery	GW
Niv-Mizzet Reborn	1	Creature	WUBRG
Morselhoarder	1	Creature	4R/GR/G
Grim Flayer	1	Creature	BG
Sliver Queen	1	Creature	WUBRG
Rashmi, Eternities Crafter	1	Creature	2GU
Scion of the Ur-Dragon	1	Creature	WUBRG

Table 11: O sorted by count

Card	Decks	Type	Mana Cost
Whispering Madness	1	Sorcery	2UB
Whirlpool Warrior	1	Creature	2U
Animar, Soul of Elements	1	Creature	GUR
Talisman of Impulse	1	Artifact	2
The Mimeoplasm	1	Creature	2BGU
Tinder Wall	1	Creature	G
Bruse Tarl, Boorish Herder	1	Creature	2RW
Niv-Mizzet, Dracogenius	1	Creature	2UURR
Zealous Persecution	1	Instant	WB
The Ur-Dragon	1	Creature	4WUBRG
Sidisi, Brood Tyrant	1	Creature	1BGU
Prossh, Skyraider of Kher	1	Creature	3BRG
Jeleva, Nephilia's Scourge	1	Creature	1UBR
Hydroid Krasis	1	Creature	XGU
The Gitrog Monster	1	Creature	3BG
Xantcha, Sleeper Agent	1	Creature	1BR
Shadow of Doubt	1	Instant	U/BU/B
Momir Vig, Simic Visionary	1	Creature	3GU
Sterling Grove	1	Enchantment	GW
Selvala, Explorer Returned	1	Creature	1GW
Sygg, River Cutthroat	1	Creature	U/BU/B
Murderous Redcap	1	Creature	2B/RB/R
Goblin Electromancer	1	Creature	UR

## B.2 Tables for Section 2.2: Cards By Type

Table 12: Land sorted by count

Card	Decks	Enters	Mana	Category
Mistveil Plains	1	Tapped	W	
Polluted Delta	57	Untapped		Fetch
Llanowar Wastes	9	Untapped	C,B,G	Pain
Botanical Sanctum	3	Conditional	U,G	Fast
Plateau	6	Untapped	R,W	Dual
Boseiju, Who Shelters All	4	Tapped	C	Pain
City of Traitors	5	Untapped	C	
Godless Shrine	7	Conditional	B,W	Shock
Sequestered Stash	1	Untapped	C	
Vault of Whispers	2	Untapped	B	
Ebon Stronghold	2	Tapped	B	Sac
Blooming Marsh	4	Conditional	B,G	Fast
Temple Garden	6	Conditional	W,G	Shock
Phyrexian Tower	7	Untapped	C,B	
Adarkar Wastes	2	Untapped	C,U,W	Pain
Sunken Ruins	4	Untapped	C,B,U	Filter

Table 12: Land sorted by count

Card	Decks	Enters	Mana	Category
Shivan Reef	2	Untapped	C,R,U	Pain
Mouth of Ronom	2	Untapped	C	
Buried Ruin	3	Untapped	C	
Ancient Ziggurat	1	Untapped	R,B,U,G,W	
Snow-Covered Island	14	Untapped	U	Basic
Badlands	25	Untapped	R,B	Dual
Tropical Island	31	Untapped	U,G	Dual
Island	23	Untapped	U	Basic
Shadowblood Ridge	1	Untapped	R,B	Filter
Barren Moor	1	Tapped	B	Cycling
Hallowed Fountain	10	Conditional	U,W	Shock
Woodland Cemetery	1	Conditional	B,G	Check
Brushland	2	Untapped	C,W,G	Pain
Overgrown Tomb	30	Conditional	B,G	Shock
Darksteel Citadel	1	Untapped	C	
Tarnished Citadel	30	Untapped	C,B,G,R,U,W	Pain
Savannah	22	Untapped	W,G	Dual
Steam Vents	15	Conditional	R,U	Shock
Watery Grave	35	Conditional	B,U	Shock
The Tabernacle at Pendrell Vale	1	Untapped		
Wirewood Lodge	1	Untapped	C	
Academy Ruins	2	Untapped	C	
Lake of the Dead	4	Untapped	B	
Crystal Vein	4	Untapped	C	Sac
Homeward Path	1	Untapped	C	
High Market	1	Untapped	C	
Scalding Tarn	51	Untapped		Fetch
Tranquil Thicket	1	Tapped	G	Cycling
Pendelhaven	1	Untapped	G	
Plains	4	Untapped	W	Basic
Underground River	16	Untapped	C,B,U	Pain
Sea of Clouds	3	Conditional	U,W	Bond
Underground Sea	39	Untapped	B,U	Dual
Blast Zone	3	Untapped	C	
Tundra	25	Untapped	U,W	Dual
Arid Mesa	33	Untapped		Fetch
Petrified Field	1	Untapped	C	
Forbidden Orchard	35	Untapped	R,B,U,G,W	
Thran Quarry	1	Untapped	R,B,U,G,W	
Dwarven Ruins	1	Tapped	R	Sac
Dakmor Salvage	1	Tapped	B	
Fetid Heath	1	Untapped	C,B,W	Filter
Sandstone Needle	1	Untapped	R	
Bloodstained Mire	50	Untapped		Fetch
Inventors' Fair	4	Untapped	C	

Table 12: Land sorted by count

Card	Decks	Enters	Mana	Category
Command Tower	54	Untapped	R,B,U,G,W	
Nykthos, Shrine to Nyx	3	Untapped	C	
Windswept Heath	49	Untapped		Fetch
Cavern of Souls	18	Untapped	C,B,G,R,U,W	
Gaea's Cradle	20	Untapped	G	
Mountain	2	Untapped	R	Basic
Command Beacon	1	Untapped	C	
Breeding Pool	30	Conditional	U,G	Shock
Bayou	35	Untapped	B,G	Dual
Forest	23	Untapped	G	Basic
Great Furnace	1	Untapped	R	
Cephalid Coliseum	7	Untapped	U	Threshold
Verdant Catacombs	55	Untapped		Fetch
Mana Confluence	50	Untapped	R,B,U,G,W	Pain
Okina, Temple to the Grandfathers	1	Untapped	G	
Spire Garden	1	Conditional	R,G	Bond
Minamo, School at Water's Edge	1	Untapped	U	
Urborg, Tomb of Yawgmoth	15	Untapped	B	
Bojuka Bog	1	Tapped	B	
Ancient Tomb	41	Untapped	C	Pain
Flooded Grove	3	Untapped	C,U,G	Filter
Wooded Foothills	50	Untapped		Fetch
City of Brass	50	Untapped	R,B,U,G,W	Pain
DragonSkull Summit	1	Conditional	R,B	Check
Sacred Foundry	1	Conditional	R,W	Shock
Blinkmoth Nexus	1	Untapped	C	Man
Flagstones of Trokair	1	Untapped	W	
Snow-Covered Swamp	8	Untapped	B	Basic
Volcanic Island	20	Untapped	R,U	Dual
Strip Mine	6	Untapped	C	Strip
Bazaar of Baghdad	3	Untapped		
Eiganjo Castle	1	Untapped	W	
Reflecting Pool	3	Untapped	C,B,G,R,U,W	
Taiga	12	Untapped	R,G	Dual
Grove of the Burnwillows	1	Untapped	C,R,G	
Yavimaya Hollow	2	Untapped	C	
Graven Cairns	2	Untapped	R,C,B	Filter
Marsh Flats	50	Untapped		Fetch
Mishra's Workshop	1	Untapped	C	
Blood Crypt	6	Conditional	R,B	Shock
Darkslick Shores	1	Conditional	B,U	Fast
Cabal Pit	1	Untapped	B	Threshold
Dryad Arbor	10	Untapped	G	
Snow-Covered Mountain	1	Untapped	R	Basic
Emergence Zone	2	Untapped	C	

Table 12: Land sorted by count

Card	Decks	Enters	Mana	Category
Gemstone Mine	9	Untapped	R,B,U,G,W	
Horizon Canopy	7	Untapped	W,G	Pain
Flooded Strand	53	Untapped		Fetch
Hinterland Harbor	2	Conditional	U,G	Check
Peat Bog	2	Untapped	B	
Sulfurous Springs	1	Untapped	R,C,B	Pain
Gemstone Caverns	35	Untapped	C	
Mishra's Factory	1	Untapped	C	Man
Yavimaya Coast	16	Untapped	C,U,G	Pain
Swamp	20	Untapped	B	Basic
Inkmoth Nexus	1	Untapped	C	Man
Scavenger Grounds	1	Untapped	C	
Cascade Bluffs	1	Untapped	C,R,U	Filter
Morphic Pool	20	Conditional	B,U	Bond
Stomping Ground	7	Conditional	R,G	Shock
Luxury Suite	2	Conditional	R,B	Bond
Seat of the Synod	1	Untapped	U	
Snow-Covered Forest	10	Untapped	G	Basic
Exotic Orchard	32	Untapped	R,B,U,G,W	
Snow-Covered Plains	2	Untapped	W	Basic
Misty Rainforest	57	Untapped		Fetch
Scrubland	25	Untapped	B,W	Dual
Twilight Mire	4	Untapped	C,B,G	Filter
Wooded Bastion	1	Untapped	C,W,G	Filter

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Dark Confidant	39	0.76	B	1B		
Birds of Paradise	39	0.93	G	G		
Deathrite Shaman	33	0.94	BG	B/G		
Fyndhorn Elves	32	0.76	G	G		
Arbor Elf	32	0.76	G	G		
Llanowar Elves	31	0.74	G	G		
Elvish Mystic	30	0.71	G	G		
Elves of Deep Shadow	26	0.74	BG	G		
Gilded Drake	26	0.55	U	1U		
Notion Thief	23	0.59	UB	2UB		
Avacyn's Pilgrim	20	0.91	WG	G		
Tymna the Weaver	20	0.67	WB	1WB		
Noble Hierarch	17	1.00	WUG	G		
Priest of Titania	16	0.38	G	1G		
Laboratory Maniac	16	0.34	U	2U		
Eternal Witness	15	0.36	G	1GG		
Boreal Druid	14	0.33	G	G		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Aven Mindcensor	14	0.45	W	2W		
Thrasios, Triton Hero	14	0.45	UG	GU		
Protean Hulk	13	0.31	G	5GG		
Bloom Tender	13	0.31	G	1G		
Jace, Vryn's Prodigy	12	0.26	U	1U		
Spellseeker	12	0.26	U	2U		
Elvish Spirit Guide	10	0.24	G	2G		
Dryad Arbor	10	0.24	G	0		
Razaketh, the Foulblooded	9	0.18	B	5BBB		
Grand Abolisher	9	0.29	W	WW		
Baral, Chief of Compliance	8	0.17	U	1U		
Sylvan Safekeeper	8	0.19	G	G		
Caustic Caterpillar	8	0.19	G	G		
Runic Armasaur	8	0.19	G	1GG		
Auriok Salvagers	8	0.26	W	3W		
Narcomoeba	7	0.15	U	1U		
Wall of Roots	7	0.17	G	1G		
Walking Ballista	7	0.11		XX		
Hope of Ghirapur	6	0.10		1		
Riftsweeper	6	0.14	G	1G		
Snapcaster Mage	6	0.13	U	1U		
Leonin Relic-Warder	6	0.19	W	WW		
Hermit Druid	6	0.14	G	1G		
Viscera Seer	6	0.12	B	B		
Yisan, the Wanderer Bard	5	0.12	G	2G		
Apprentice Necromancer	5	0.10	B	1B		
Blood Artist	5	0.10	B	1B		
Consecrated Sphinx	5	0.11	U	4UU		
Linvala, Keeper of Silence	5	0.16	W	2WW		
Memnite	5	0.08		0		
Reclamation Sage	5	0.12	G	2G		
Quirion Ranger	5	0.12	G	G		
Jin-Gitaxias, Core Augur	5	0.11	U	8UU		
Cephalid Illusionist	5	0.11	U	1U		
Nomads en-Kor	5	0.16	W	W		
Eternal Scourge	4	0.06		3		
Body Snatcher	4	0.08	B	2BB		
Vexing Shusher	4	0.22	RG	R/GR/G		
Ethersworn Canonist	4	0.13	W	1W		
Vial Smasher the Fierce	4	0.14	BR	1BR		
Squee, the Immortal	4	0.13	R	1RR		
Blood Pet	4	0.08	B	B		
Fatestitcher	4	0.09	U	3U		
Phyrexian Revoker	4	0.06		2		
Eidolon of Rhetoric	4	0.13	W	2W		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Phantasmal Image	4	0.09	U	1U		
Worldgorger Dragon	4	0.13	R	3RRR		
Angel of Glory's Rise	4	0.13	W	5WW		
Magus of the Moon	4	0.13	R	2R		
Simian Spirit Guide	4	0.13	R	2R		
Phyrexian Delver	3	0.06	B	3BB		
Devoted Druid	3	0.07	G	1G		
Elesh Norn, Grand Cenobite	3	0.10	W	5WW		
Bane of Progress	3	0.07	G	4GG		
Temur Sabertooth	3	0.07	G	2GG		
Karmic Guide	3	0.10	W	3WW		
Kess, Dissident Mage	3	0.14	UBR	1UBR		
Wirewood Symbiote	3	0.07	G	G		
Necrotic Ooze	3	0.06	B	2BB		
Misthollow Griffin	3	0.06	U	2UU		
Mindblade Render	3	0.06	B	1B		
Scavenging Ooze	3	0.07	G	1G		
Seedborn Muse	3	0.07	G	3GG		
Thalia, Guardian of Thraben	3	0.10	W	1W		
Alms Collector	3	0.10	W	3W		
Kiki-Jiki, Mirror Breaker	3	0.10	R	2RRR		
Imperial Recruiter	3	0.10	R	2R		
Carriion Feeder	3	0.06	B	B		
Zur the Enchanter	3	0.12	WUB	1WUB		
Shield Sphere	3	0.05		0		
Orcish Lumberjack	3	0.17	RG	R		
Tana, the Bloodsower	3	0.17	RG	2RG		
Serra Ascendant	3	0.10	W	W		
Kraum, Ludevic's Opus	3	0.13	UR	3UR		
Ornithopter	3	0.05		0		
Zulaport Cutthroat	3	0.06	B	1B		
Cloud of Faeries	2	0.04	U	1U		
Mikaeus, the Unhallowed	2	0.04	B	3BBB		
Yidris, Maelstrom Wielder	2	0.15	UBRG	UBRG		
Najeela, the Blade-Blossom	2	0.29	WUBRG	2R		
Kataki, War's Wage	2	0.06	W	1W		
Rishkar, Peema Renegade	2	0.05	G	2G		
Academy Rector	2	0.06	W	3W		
Hushwing Gryff	2	0.06	W	2W		
Spellskite	2	0.04	U	2		
Siren Stormtamer	2	0.04	U	U		
Phyrexian Walker	2	0.03		0		
Halimar Excavator	2	0.04	U	1U		
Kraul Harpooner	2	0.05	G	1G		
Wood Elves	2	0.05	G	2G		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Skirge Familiar	2	0.04	B	4B		
Overeager Apprentice	2	0.04	B	2B		
Village Bell-Ringer	2	0.06	W	2W		
Woodland Bellower	2	0.05	G	4GG		
Derevi, Empyrial Tactician	2	0.12	WUG	GWU		
Azusa, Lost but Seeking	2	0.05	G	2G		
Somberwald Stag	2	0.05	G	3GG		
Tasigur, the Golden Fang	2	0.07	UBG	5B	B	
Golgari Thug	2	0.04	B	1B		
Children of Korlis	2	0.06	W	W		
Regal Force	2	0.05	G	4GGG		
Myr Moonvessel	2	0.03		1		
General Tazri	2	0.29	WUBRG	4W		
Shaman en-Kor	2	0.06	W	1W		
Metalworker	2	0.03		3		
Manglehorn	2	0.05	G	2G		
Selvala, Heart of the Wilds	2	0.05	G	1GG		
Edric, Spymaster of Trest	2	0.06	UG	1GU		
Hapless Researcher	2	0.04	U	U		
Wild Cantor	2	0.11	RG	R/G		
Anafenza, the Foremost	2	0.10	WBG	WBG		
Kalastria Healer	2	0.04	B	1B		
Breya, Etherium Shaper	2	0.17	WUBR	WUBR		
Azra Oddsmaker	2	0.07	BR	1BR		
Bloodthrone Vampire	2	0.04	B	1B		
Scryb Ranger	2	0.05	G	1G		
Felidar Guardian	2	0.06	W	3W		
Kozilek, Butcher of Truth	2	0.03		10		
Shimmer Myr	2	0.03		3		
Warrior en-Kor	2	0.06	W	WW		
Hagra Diabolist	2	0.04	B	4B		
Sire of Insanity	2	0.07	BR	4BR		
Sidisi, Undead Vizier	2	0.04	B	3BB		
Fauna Shaman	2	0.05	G	1G		
Nezahal, Primal Tide	1	0.02	U	5UU		
Mausoleum Wanderer	1	0.02	U	U		
Deceiver Exarch	1	0.02	U	2U		
Reckless Bushwhacker	1	0.03	R	2R	1R	
Vizier of the Menagerie	1	0.02	G	3G		
Phyrexian Soulgorger	1	0.02		3		
Prowling Serpopard	1	0.02	G	1GG		
Mulldrifter	1	0.02	U	4U	2U	
Purphoros, God of the Forge	1	0.03	R	3R		
Melira, Sylvok Outcast	1	0.02	G	1G		
Palinchron	1	0.02	U	5UU		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Great Oak Guardian	1	0.02	G	5G		
Eladamri, Lord of Leaves	1	0.02	G	GG		
Kamahl, Fist of Krosa	1	0.02	G	4GG		
Kiri-Onna	1	0.02	U	4U		
Sparkcaster	1	0.06	RG	2RG		
Gray Merchant of Asphodel	1	0.02	B	3BB		
Treasonous Ogre	1	0.03	R	3R		
Krosan Wayfarer	1	0.02	G	G		
Lupine Prototype	1	0.02		2		
Sylvan Ranger	1	0.02	G	1G		
Tishana, Voice of Thunder	1	0.03	UG	5GU		
Gaea's Herald	1	0.02	G	1G		
Somberwald Sage	1	0.02	G	2G		
Torch Courier	1	0.03	R	R		
Kiora's Follower	1	0.03	UG	GU		
Birchlore Rangers	1	0.02	G	G		
Goblin Sharpshooter	1	0.03	R	2R		
Momir Vig, Simic Visionary	1	0.03	UG	3GU		
Mogis's Marauder	1	0.02	B	2B		
Ikra Shidiqi, the Usurper	1	0.03	BG	3BG		
Noose Constrictor	1	0.02	G	1G		
Voyaging Satyr	1	0.02	G	1G		
Body Double	1	0.02	U	4U		
Meren of Clan Nel Toth	1	0.03	BG	2BG		
Tetsuko Umezawa, Fugitive	1	0.02	U	1U		
Sacred Guide	1	0.03	W	W		
Spirit of the Labyrinth	1	0.03	W	1W		
Loyal Drake	1	0.02	U	2U		
Saffi Eriksdotter	1	0.05	WG	GW		
Qasali Pridemage	1	0.05	WG	GW		
Varolz, the Scar-Striped	1	0.03	BG	1BG		
Wingrattle Scarecrow	1	0.02		3		
Circu, Dimir Lobotomist	1	0.03	UB	2UB		
Insolent Neonate	1	0.03	R	R		
Nightveil Sprite	1	0.02	U	1U		
Hellraiser Goblin	1	0.03	R	2R		
Anger	1	0.03	R	3R		
Brass Squire	1	0.02		3		
Duskwatch Recruiter	1	0.02	G	1G		
Dire Fleet Daredevil	1	0.03	R	1R		
Generous Patron	1	0.02	G	2G		
Karametra's Acolyte	1	0.02	G	3G		
Dualcaster Mage	1	0.03	R	1RR		
Beastcaller Savant	1	0.02	G	1G		
Niv-Mizzet Reborn	1	0.14	WUBRG	WUBRG		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Cephalid Inkshrouder	1	0.02	U	2U		
Dross Hopper	1	0.02	B	1B		
Leaden Myr	1	0.02	B	2		
Weathered Wayfarer	1	0.03	W	W		
Murderous Redcap	1	0.04	BR	2B/RB/R		
Nantuko Tracer	1	0.02	G	1G		
Morselhoarder	1	0.06	RG	4R/GR/G		
Lightning Mauler	1	0.03	R	1R		
Grim Flayer	1	0.03	BG	BG		
Skirk Prospector	1	0.03	R	R		
Sliver Queen	1	0.14	WUBRG	WUBRG		
Junk Diver	1	0.02		3		
Bruse Tarl, Boorish Herder	1	0.06	WR	2RW		
Scion of the Ur-Dragon	1	0.14	WUBRG	WUBRG		
Plague Myr	1	0.02		2		
Thing in the Ice	1	0.02	U	1U		
Whirlpool Warrior	1	0.04	UR	2U		
Sun Titan	1	0.03	W	4WW		
Slithermuse	1	0.02	U	2UU		3U
Animar, Soul of Elements	1	0.07	URG	GUR		
Ancestral Statue	1	0.02		4		
Channeler Initiate	1	0.02	G	1G		
Loyal Apprentice	1	0.03	R	1R		
Pestermite	1	0.02	U	2U		
Bloodghast	1	0.02	B	BB		
Triton Shorestalker	1	0.02	U	U		
Craterhoof Behemoth	1	0.02	G	5GGG		
Goblin Welder	1	0.03	R	R		
Gudul Lurker	1	0.02	U	U		
Plaguecrafter	1	0.02	B	2B		
Xantcha, Sleeper Agent	1	0.04	BR	1BR		
Arcbound Ravager	1	0.02		2		
Ravaging Riftwurm	1	0.02	G	1GG		
Sakura-Tribe Scout	1	0.02	G	G		
Rashmi, Eternities Crafter	1	0.03	UG	2GU		
Niv-Mizzet, Dracogenius	1	0.04	UR	2UURR		
Thought-Knot Seer	1	0.02		3C		
The Mimeoplasm	1	0.04	UBG	2BGU		
Goblin Matron	1	0.03	R	2R		
Fiend Hunter	1	0.03	W	1WW		
Genesis Hydra	1	0.02	G	XGG		
Spire Tracer	1	0.02	G	G		
Sidisi, Brood Tyrant	1	0.04	UBG	1BGU		
Mother of Runes	1	0.03	W	W		
Tendershoot Dryad	1	0.02	G	4G		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Arcum Dagsson	1	0.02	U	3U		
Selvala, Explorer Returned	1	0.05	WG	1GW		
Reassembling Skeleton	1	0.02	B	1B		
Dosan the Falling Leaf	1	0.02	G	1GG		
Heart Warden	1	0.02	G	1G		
Phyrexian Devourer	1	0.02		6		
Godo, Bandit Warlord	1	0.03	R	5R		
Sheltering Ancient	1	0.02	G	1G		
Xantid Swarm	1	0.02	G	G		
Slither Blade	1	0.02	U	U		
Ulvenwald Tracker	1	0.02	G	G		
Palladium Myr	1	0.02		3		
Ravenous Slime	1	0.02	G	2G		
Hedron Crawler	1	0.02		2		
Spellstutter Sprite	1	0.02	U	1U		
Ramunap Excavator	1	0.02	G	2G		
Etherium Sculptor	1	0.02	U	1U		
Scrap Trawler	1	0.02		3		
Faerie Miscreant	1	0.02	U	U		
Disciple of the Vault	1	0.02	B	B		
Gorilla Shaman	1	0.03	R	R		
The Ur-Dragon	1	0.14	WUBRG	4WUBRG		
Golgari Grave-Troll	1	0.02	G	4G		
Duplicant	1	0.02		6		
Blisterpod	1	0.02		G		
Prossh, Skyraider of Kher	1	0.06	BRG	3BRG		
Blighted Bat	1	0.02	B	2B		
Jeleva, Nephilaia's Scourge	1	0.05	UBR	1UBR		
Silver Myr	1	0.02	U	2		
Hydroid Krasis	1	0.03	UG	XGU		
The Gitrog Monster	1	0.03	BG	3BG		
Hangarback Walker	1	0.02		XX		
Mindslicer	1	0.02	B	2BB		
Goblin Bushwhacker	1	0.03	R	R		
Manakin	1	0.02		2		
Heritage Druid	1	0.02	G	G		
Looter il-Kor	1	0.02	U	1U		
Captain Sisay	1	0.05	WG	2GW		
Myr Retriever	1	0.02		2		
Bond Beetle	1	0.02	G	G		
Putrid Imp	1	0.02	B	B		
Fleshbag Marauder	1	0.02	B	2B		
Wingcrafter	1	0.02	U	U		
Joraga Treespeaker	1	0.02	G	G		
Sidisi's Faithful	1	0.02	U	U		

Table 13: Creature sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Beast Whisperer	1	0.02	G	2GG		
Smothering Abomination	1	0.02		2BB		
Peregrine Drake	1	0.02	U	4U		
Trinket Mage	1	0.02	U	2U		
Goblin Dark-Dwellers	1	0.03	R	3RR		
Treetop Scout	1	0.02	G	G		
Elvish Visionary	1	0.02	G	1G		
Anafenza, Kin-Tree Spirit	1	0.03	W	WW		
Phyrexian Dreadnought	1	0.02		1		
Dragon Mage	1	0.03	R	5RR		
Sygg, River Cutthroat	1	0.03	UB	U/BU/B		
Mist-Cloaked Herald	1	0.02	U	U		
Phyrexian Metamorph	1	0.02	U	3U/P	3	
Kederekt Leviathan	1	0.02	U	6UU		
Tinder Wall	1	0.06	RG	G		
Hokori, Dust Drinker	1	0.03	W	2WW		
Goblin Electromancer	1	0.04	UR	UR		
Nettle Sentinel	1	0.02	G	G		
Scryb Sprites	1	0.02	G	G		

Table 14: Artifact sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Mana Crypt	63	1.00		0		
Sol Ring	62	0.98		1		
Mox Diamond	61	0.97		0		
Chrome Mox	61	0.97		0		
Mana Vault	42	0.67		1		
Lotus Petal	39	0.62		0		
Sensei's Divining Top	33	0.52		1		
Fellwar Stone	32	0.51		2		
Grim Monolith	31	0.49		2		
Mox Opal	26	0.41		0		
Talisman of Dominance	22	0.56	UB	2		
Lion's Eye Diamond	22	0.35		0		
Dimir Signet	18	0.46	UB	2		
Isochron Scepter	17	0.27		2		
Paradox Engine	16	0.25		5		
Grafdigger's Cage	10	0.16		1		
Talisman of Progress	9	0.36	WU	2		
Cursed Totem	9	0.14		2		
Null Rod	8	0.13		2		
Aetherflux Reservoir	8	0.13		4		
Izzet Signet	8	0.35	UR	2		
Talisman of Indulgence	8	0.29	BR	2		

Table 14: Artifact sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Simic Signet	7	0.23	UG	2		
Walking Ballista	7	0.11		XX		
Hope of Ghirapur	6	0.10		1		
Helm of Awakening	6	0.10		2		
Prismatic Lens	5	0.08		2		
Azorius Signet	5	0.20	WU	2		
Everflowing Chalice	5	0.08		0		
Memnite	5	0.08		0		
Basalt Monolith	5	0.08		3		
Skullclamp	5	0.08		1		
Trinisphere	5	0.08		3		
Mox Amber	5	0.08		0		
Defense Grid	4	0.06		2		
Rings of Brightearth	4	0.06		3		
Ethersworn Canonist	4	0.13	W	1W		
Thought Vessel	4	0.06		2		
Scroll Rack	4	0.06		2		
Birthing Pod	4	0.10	G	3G/P	3	
Voltaic Key	4	0.06		1		
Phyrexian Revoker	4	0.06		2		
Lightning Greaves	4	0.06		2		
Sapphire Medallion	4	0.06		2		
Sphere of Resistance	4	0.06		2		
Mind Stone	3	0.05		2		
Shield Sphere	3	0.05		0		
Nihil Spellbomb	3	0.06	B	1		
Orzhov Signet	3	0.10	WB	2		
Staff of Domination	3	0.05		3		
Ornithopter	3	0.05		0		
Vault of Whispers	2	0.04	B	0		
Spellskite	2	0.04	U	2		
Phyrexian Walker	2	0.03		0		
Candelabra of Tawnos	2	0.03		1		
Shuko	2	0.03		1		
Serum Powder	2	0.03		3		
Fractured Powerstone	2	0.03		2		
Expedition Map	2	0.03		1		
Metalworker	2	0.03		3		
Shimmer Myr	2	0.03		3		
Tangle Wire	2	0.03		3		
Altar of Dementia	2	0.03		2		
Memory Jar	2	0.03		5		
Golgari Signet	2	0.06	BG	2		
Myr Moonvessel	2	0.03		1		
Umbral Mantle	2	0.03		3		

Table 14: Artifact sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Aether Spellbomb	2	0.04	U	1		
Springleaf Drum	2	0.03		1		
Lotus Bloom	2	0.03		0		
Rakdos Signet	2	0.07	BR	2		
Codex Shredder	2	0.03		1		
Thorn of Amethyst	2	0.03		2		
Breya, Etherium Shaper	2	0.17	WUBR	WUBR		
Winter Orb	2	0.03		2		
Thousand-Year Elixir	2	0.03		3		
Jeweled Amulet	2	0.03		0		
Jet Medallion	2	0.03		2		
Bolas's Citadel	2	0.04	B	3BBB	0	
Thran Dynamo	2	0.03		4		
The Chain Veil	1	0.02		4		
Myr Retriever	1	0.02		2		
Wingrattle Scarecrow	1	0.02		3		
Argentum Armor	1	0.02		6		
Chromatic Sphere	1	0.02		1		
Krark-Clan Ironworks	1	0.02		4		
Welding Jar	1	0.02		0		
Pithing Needle	1	0.02		1		
Darksteel Citadel	1	0.02		0		
Hedron Crawler	1	0.02		2		
Bow of Nylea	1	0.02	G	1GG		
Sky Diamond	1	0.02	U	2		
Panharmonicon	1	0.02		4		
Duplicant	1	0.02		6		
Leaden Myr	1	0.02	B	2		
Plague Myr	1	0.02		2		
Junk Diver	1	0.02		3		
Wayfarer's Bauble	1	0.02		1		
Chalice of the Void	1	0.02		XX		
Honor-Worn Shaku	1	0.02		3		
Worn Powerstone	1	0.02		3		
Lupine Prototype	1	0.02		2		
Ancestral Statue	1	0.02		4		
Arcbound Ravager	1	0.02		2		
Mishra's Bauble	1	0.02		0		
Urza's Bauble	1	0.02		0		
Guardian Idol	1	0.02		2		
Engineered Explosives	1	0.02		X		
Talisman of Impulse	1	0.06	RG	2		
Phyrexian Soulgorger	1	0.02		3		
Brass Squire	1	0.02		3		
Great Furnace	1	0.03	R	0		

Table 14: Artifact sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Hammer of Nazahn	1	0.02		4		
Phyrexian Devourer	1	0.02		6		
Palladium Myr	1	0.02		3		
Altar of the Brood	1	0.02		1		
Gilded Lotus	1	0.02		5		
Spine of Ish Sah	1	0.02		7		
Citanul Flute	1	0.02		5		
Etherium Sculptor	1	0.02	U	1U		
Seat of the Synod	1	0.02	U	0		
Chromatic Star	1	0.02		1		
Silver Myr	1	0.02	U	2		
Hangarback Walker	1	0.02		XX		
Phyrexian Dreadnought	1	0.02		1		
Conjuror's Bauble	1	0.02		1		
Manakin	1	0.02		2		
Astral Cornucopia	1	0.02		XXX		
Spawning Pit	1	0.02		2		
Static Orb	1	0.02		3		
Helm of the Host	1	0.02		4		
Scrap Trawler	1	0.02		3		
Phyrexian Metamorph	1	0.02	U	3U/P	3	

Table 15: Enchantment sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Mystic Remora	45	0.96	U	U		
Carpet of Flowers	42	1.00	G	G		
Sylvan Library	39	0.93	G	1G		
Necropotence	26	0.51	B	BBB		
Wild Growth	19	0.45	G	G		
Copy Artifact	19	0.40	U	1U		
Survival of the Fittest	18	0.43	G	1G		
Animate Dead	18	0.35	B	1B		
Necromancy	18	0.35	B	2B		
Utopia Sprawl	15	0.36	G	G		
Rhystic Study	13	0.28	U	2U		
Dance of the Dead	12	0.24	B	1B		
Exploration	7	0.17	G	G		
Food Chain	5	0.12	G	2G		
Smothering Tithe	5	0.16	W	3W		
Root Maze	5	0.12	G	G		
Rest in Peace	4	0.13	W	1W		
Pattern of Rebirth	4	0.10	G	3G		
Stranglehold	4	0.13	R	3R		
Eidolon of Rhetoric	4	0.13	W	2W		

Table 15: Enchantment sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Blood Moon	4	0.13	R	2R		
Stony Silence	4	0.13	W	1W		
Pernicious Deed	3	0.09	BG	1BG		
Leyline of the Void	3	0.06	B	2BB		
Aura of Silence	3	0.10	W	1WW		
Waste Not	3	0.06	B	1B		
Grasp of Fate	3	0.10	W	1WW		
Training Grounds	3	0.06	U	U		
Back to Basics	3	0.06	U	2U		
Earthcraft	2	0.05	G	1G		
Druids' Repository	2	0.05	G	1GG		
Keen Sense	2	0.05	G	G		
Song of the Dryads	2	0.05	G	2G		
Legacy's Allure	2	0.04	U	UU		
Compost	2	0.05	G	1G		
Freed from the Real	2	0.04	U	2U		
Nature's Will	2	0.05	G	2GG		
Concordant Crossroads	2	0.05	G	G		
Goblin Bombardment	2	0.07	R	1R		
Curiosity	2	0.04	U	U		
Humility	2	0.06	W	2WW		
Squandered Resources	2	0.06	BG	BG		
Splinter Twin	2	0.07	R	2RR		
Power Artifact	2	0.04	U	UU		
Verity Circle	2	0.04	U	2U		
Rule of Law	2	0.06	W	2W		
Mirri's Guile	2	0.05	G	G		
Squirrel Nest	2	0.05	G	1GG		
Burgeoning	1	0.02	G	G		
Phyrexian Unlife	1	0.03	W	2W		
Mass Hysteria	1	0.03	R	R		
City of Solitude	1	0.02	G	2G		
Possibility Storm	1	0.03	R	3RR		
Oblivion Crown	1	0.02	B	1B		
Counterbalance	1	0.02	U	UU		
Oppression	1	0.02	B	1BB		
Stasis	1	0.02	U	1U		
Blind Obedience	1	0.03	W	1W		
Need for Speed	1	0.03	R	R		
Luminarch Ascension	1	0.03	W	1W		
Greater Good	1	0.02	G	2GG		
Sterling Grove	1	0.05	WG	GW		
Contamination	1	0.02	B	2B		
Thousand-Year Storm	1	0.04	UR	4UR		
Bloodchief Ascension	1	0.02	B	B		

Table 15: Enchantment sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Lignify	1	0.02	G	1G		
Suppression Field	1	0.03	W	1W		
Spirit of the Labyrinth	1	0.03	W	1W		
Chains of Mephistopheles	1	0.02	B	1B		
Search for Azcanta	1	0.02	U	1U		
Purphoros, God of the Forge	1	0.03	R	3R		
Intruder Alarm	1	0.02	U	2U		
Bow of Nylea	1	0.02	G	1GG		

Table 16: Instant sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Vampiric Tutor	51	1.00	B	B		
Mystical Tutor	46	0.98	U	U		
Brainstorm	44	0.94	U	U		
Mental Misstep	44	0.94	U	U/P	0	
Swan Song	43	0.91	U	U		
Pact of Negation	40	0.85	U	0		
Force of Will	40	0.85	U	3UU	0	
Flusterstorm	39	0.83	U	U		
Mana Drain	38	0.81	U	UU		
Dark Ritual	37	0.73	B	B		
Chain of Vapor	37	0.79	U	U		
Dispel	36	0.77	U	U		
Nature's Claim	35	0.83	G	G		
Noxious Revival	35	0.83	G	G/P	0	
Lim-Dûl's Vault	34	0.87	UB	UB		
Ad Nauseam	34	0.67	B	3BB		
Delay	34	0.72	U	1U		
Abrupt Decay	30	0.86	BG	BG		
Cyclonic Rift	30	0.64	U	1U		
Enlightened Tutor	29	0.94	W	W		
Dramatic Reversal	24	0.51	U	1U		
Cabal Ritual	23	0.45	B	1B		
Spell Pierce	23	0.49	U	U		
Silence	23	0.74	W	W		
Entomb	23	0.45	B	B		
Assassin's Trophy	22	0.63	BG	BG		
Negate	21	0.45	U	1U		
Tainted Pact	20	0.39	B	1B		
Counterspell	20	0.43	U	UU		
Worldly Tutor	19	0.45	G	G		
Pyroblast	19	0.63	R	R		
Fire Covenant	19	0.68	BR	1BR		
Swords to Plowshares	17	0.55	W	W		

Table 16: Instant sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Frantic Search	17	0.36	U	2U		0
Narset's Reversal	16	0.34	U	UU		
Intuition	16	0.34	U	2U		
Demonic Consultation	15	0.29	B	B		
Crop Rotation	12	0.29	G	G		
Angel's Grace	12	0.39	W	W		
Impulse	12	0.26	U	1U		
Red Elemental Blast	12	0.40	R	R		
Flash	10	0.21	U	1U		
Summoner's Pact	10	0.24	G	0		
Dovin's Veto	10	0.40	WU	WU		
Plunge into Darkness	10	0.20	B	1B		
Eladamri's Call	10	0.45	WG	GW		
Winds of Rebuke	9	0.19	U	1U		
Opt	8	0.17	U	U		
Culling the Weak	8	0.16	B	B		
Autumn's Veil	7	0.17	G	G		
High Tide	7	0.15	U	U		
Rain of Filth	7	0.14	B	B		
Dig Through Time	6	0.13	U	6UU		UU
Natural State	6	0.14	G	G		
Beast Within	6	0.14	G	2G		
Fact or Fiction	6	0.13	U	3U		
Chord of Calling	5	0.12	G	XGGG		0
Shallow Grave	5	0.10	B	1B		
Reality Shift	5	0.11	U	1U		
Into the Roil	5	0.11	U	1U		
Pongify	5	0.11	U	U		
Memory's Journey	5	0.11	U	1U		
Muddle the Mixture	5	0.11	U	UU		
Mana Leak	4	0.09	U	1U		
Whir of Invention	4	0.09	U	XUUU		XUUU
Seething Song	4	0.13	R	2R		
Gush	4	0.09	U	4U		0
Abrade	4	0.13	R	1R		
Snap	4	0.09	U	1U		0
Wear // Tear	3	0.19	WR	1R // W		
Izzet Charm	3	0.13	UR	UR		
Slaughter Pact	3	0.06	B	0		
Stroke of Genius	3	0.06	U	X2U		
Pull from Tomorrow	3	0.06	U	XUU		
Manamorphose	3	0.17	RG	1R/G		
Misdirection	3	0.06	U	3UU		0
Rapid Hybridization	3	0.06	U	U		
Hurkyl's Recall	3	0.06	U	1U		

Table 16: Instant sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Path to Exile	2	0.06	W	W		
Kozilek's Return	2	0.03		2R		
Stifle	2	0.04	U	U		
Chaos Warp	2	0.07	R	2R		
Final Fortune	2	0.07	R	RR		
Flash of Insight	2	0.04	U	X1U		
Remand	2	0.04	U	1U		
Guttural Response	2	0.11	RG	R/G		
Submerge	2	0.04	U	4U		
Blue Sun's Zenith	2	0.04	U	XUUU		
Obsessive Search	2	0.04	U	U	U	
Sleight of Mind	1	0.02	U	U		
Dimir Charm	1	0.03	UB	UB		
Thought Scour	1	0.02	U	U		
Lightning Bolt	1	0.03	R	R		
Vines of Vastwood	1	0.02	G	G		
Mission Briefing	1	0.02	U	UU		
Mogg Salvage	1	0.03	R	2R		
Thirst for Knowledge	1	0.02	U	2U		
Predict	1	0.02	U	1U		
Mana Tithe	1	0.03	W	W		
Sacrifice	1	0.02	B	B		
Mind Bend	1	0.02	U	U		
Unified Will	1	0.02	U	1U		
Thunderclap	1	0.03	R	2R	0	
Songs of the Damned	1	0.02	B	B		
Benefactor's Draught	1	0.02	G	1G		
Rending Volley	1	0.03	R	R		
Berserk	1	0.02	G	G		
Unwind	1	0.02	U	2U	0	
Corpse Dance	1	0.02	B	2B		
Mystic Confluence	1	0.02	U	3UU		
Deglamer	1	0.02	G	1G		
Rebuild	1	0.02	U	2U		
Mausoleum Secrets	1	0.02	B	1B		
Turnabout	1	0.02	U	2UU		
Reclaim	1	0.02	G	G		
Ancient Animus	1	0.02	G	1G		
Ricochet Trap	1	0.03	R	3R	R	
Goryo's Vengeance	1	0.02	B	1B		
Zealous Persecution	1	0.03	WB	WB		
Might of Old Krosa	1	0.02	G	G		
Unsubstantiate	1	0.02	U	1U		
Nexus of Fate	1	0.02	U	5UU		
Magnetic Theft	1	0.03	R	R		

Table 16: Instant sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Spectral Shift	1	0.02	U	1U		
Quicken	1	0.02	U	U		
Shadow of Doubt	1	0.03	UB	U/BU/B		
Daze	1	0.02	U	1U	0	
Alter Reality	1	0.02	U	1U		
Reap	1	0.02	G	1G		
Glamerdye	1	0.02	U	1U		
Pull from Eternity	1	0.03	W	W		
Divergent Transformations	1	0.03	R	6R		
Invigorate	1	0.02	G	2G	0	
Anticipate	1	0.02	U	1U		
Groundswell	1	0.02	G	G		
Pulse of the Grid	1	0.02	U	1UU		
Stubborn Denial	1	0.02	U	U		
Whim of Volrath	1	0.02	U	U		
Prohibit	1	0.02	U	1U		
Momentous Fall	1	0.02	G	2GG		
Darkblast	1	0.02	B	B		

Table 17: Sorcery sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Demonic Tutor	51	1.00	B	1B		
Imperial Seal	50	0.98	B	B		
Ponder	40	0.85	U	U		
Preordain	35	0.74	U	U		
Gitaxian Probe	31	0.66	U	U/P	0	
Timetwister	30	0.64	U	2U		
Yawgmoth's Will	27	0.53	B	2B		
Windfall	26	0.55	U	2U		
Toxic Deluge	26	0.51	B	2B		
Diabolic Intent	23	0.45	B	1B		
Wheel of Fortune	19	0.63	R	2R		
Gamble	16	0.53	R	R		
Reanimate	16	0.31	B	B		
Merchant Scroll	14	0.30	U	1U		
Green Sun's Zenith	13	0.31	G	XG		
Praetor's Grasp	11	0.22	B	1BB		
Cabal Therapy	10	0.20	B	B		
Regrowth	9	0.21	G	1G		
Grim Tutor	9	0.18	B	1BB		
Life // Death	9	0.26	BG	G // 1B		
Rolling Earthquake	9	0.30	R	XR		
Eldritch Evolution	8	0.19	G	1GG		
Thoughtseize	8	0.16	B	B		

Table 17: Sorcery sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Sleight of Hand	8	0.17	U	U		
Dark Petition	8	0.16	B	3BB		
Buried Alive	7	0.14	B	2B		
Dread Return	6	0.12	B	2BB		
Faithless Looting	5	0.17	R	R		
Finale of Devastation	5	0.12	G	XGG		
Night's Whisper	5	0.10	B	1B		
Doomsday	5	0.10	B	BBB		
Natural Order	5	0.12	G	2GG		
Mind's Desire	5	0.11	U	4UU		
Transmute Artifact	5	0.11	U	UU		
Rite of Flame	4	0.13	R	R		
Chart a Course	4	0.09	U	1U		
Sylvan Tutor	4	0.10	G	G		
Duress	4	0.08	B	B		
Pyroclasm	3	0.10	R	1R		
Mnemonic Betrayal	3	0.08	UB	1UB		
Careful Study	3	0.06	U	U		
Inquisition of Kozilek	3	0.06	B	B		
Neoform	3	0.10	UG	GU		
Massacre	3	0.06	B	2BB		
By Force	3	0.10	R	XR		
Postmortem Lunge	3	0.06	B	XB/P	X	
Exhume	3	0.06	B	1B		
Shattering Spree	2	0.07	R	R		
Past in Flames	2	0.07	R	3R		
Sickening Dreams	2	0.04	B	1B		
Ancestral Vision	2	0.04	U	0		
Winds of Change	2	0.07	R	R		
Damnation	2	0.04	B	2BB		
Personal Tutor	2	0.04	U	U		
Deep Analysis	2	0.04	U	3U		
Weird Harvest	2	0.05	G	XGG		
Bonus Round	2	0.07	R	1RR		
Vandalblast	2	0.07	R	R		
Glimpse of Nature	2	0.05	G	G		
Summer Bloom	2	0.05	G	1G		
Time Spiral	2	0.04	U	4UU	0	
Twinflame	2	0.07	R	1R		
Life from the Loam	2	0.05	G	1G		
Fabricate	2	0.04	U	2U		
Deathmark	2	0.04	B	B		
Manipulate Fate	2	0.04	U	1U		
Treasure Cruise	2	0.04	U	7U	U	
Collective Brutality	2	0.04	B	1B		

Table 17: Sorcery sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Seasons Past	2	0.05	G	4GG		
Burning Inquiry	2	0.07	R	R		
Bubbling Muck	2	0.04	B	B		
Exsanguinate	2	0.04	B	XBB		
Sweltering Suns	2	0.07	R	1RR		
Whipflare	2	0.07	R	1R		
Foresight	2	0.04	U	1U		
Enter the Infinite	2	0.04	U	8UUUU		
Dimir Machinations	1	0.02	B	2B		
Tooth and Nail	1	0.02	G	5GG		
Manifold Insights	1	0.02	U	2U		
Harmonize	1	0.02	G	2GG		
Uncage the Menagerie	1	0.02	G	XGG		
Life's Legacy	1	0.02	G	1G		
Nature's Lore	1	0.02	G	1G		
Finale of Promise	1	0.03	R	XRR		
Yahenni's Expertise	1	0.02	B	2BB		
Serum Visions	1	0.02	U	U		
Sylvan Scrying	1	0.02	G	1G		
Phytoburst	1	0.02	G	1G		
Recurring Insight	1	0.02	U	4UU		
Urza's Ruinous Blast	1	0.03	W	4W		
Gaea's Blessing	1	0.02	G	1G		
Land Grant	1	0.02	G	1G	0	
Time Warp	1	0.02	U	3UU		
Unearth	1	0.02	B	B		
Altar of Bone	1	0.05	WG	GW		
Reshape	1	0.02	U	XUU		
Victimize	1	0.02	B	2B		
Capture of Jingzhou	1	0.02	U	3UU		
Temporal Mastery	1	0.02	U	5UU	1U	
Wheel of Fate	1	0.03	R	0		
Whispering Madness	1	0.03	UB	2UB		
Part the Waterveil	1	0.02	U	4UU		
Fiery Confluence	1	0.03	R	2RR		
Karn's Temporal Sundering	1	0.02	U	4UU		
Ravages of War	1	0.03	W	3W		
Sign in Blood	1	0.02	B	BB		
Trait Doctoring	1	0.02	U	U		
Diminishing Returns	1	0.02	U	2UU		
Three Visits	1	0.02	G	1G		
Fragmentize	1	0.03	W	W		
Devastation Tide	1	0.02	U	3UU	1U	
Genesis Wave	1	0.02	G	XGGG		
Temporal Trespass	1	0.02	U	8UUU		UUU

Table 17: Sorcery sorted by count

Card	Decks	P-R	Color	Mana Cost	ACC	RCC
Maximize Velocity	1	0.03	R	R		
Extract	1	0.02	U	U		
Notorious Throng	1	0.02	U	3U		5U
Soul's Majesty	1	0.02	G	4G		
Infernal Plunge	1	0.03	R	R		
Temporal Manipulation	1	0.02	U	3UU		
Cathartic Reunion	1	0.03	R	1R		
Show and Tell	1	0.02	U	2U		
Footsteps of the Goryo	1	0.02	B	2B		
Heat Shimmer	1	0.03	R	2R		
Walk the Aeons	1	0.02	U	4UU		
Rishkar's Expertise	1	0.02	G	4GG		
Tormenting Voice	1	0.03	R	1R		
Armageddon	1	0.03	W	3W		
Final Parting	1	0.02	B	3BB		

### B.3 Tables for Section 2.3: Alternate and Reduced Casting Cost

Table 18: Alternate Casting Cost

Card	Decks	Type	ACC	Delta
Mental Misstep	44	Instant	0	-1
Force of Will	40	Instant	0	-5
Noxious Revival	35	Instant	0	-1
Gitaxian Probe	31	Sorcery	0	-1
Gush	4	Instant	0	-5
Birthing Pod	4	Artifact	3	-1
Postmortem Lunge	3	Sorcery	X	-1
Misdirection	3	Instant	0	-5
Bolas's Citadel	2	Artifact	0	-6
Invigorate	1	Instant	0	-3
Phyrexian Metamorph	1	Artifact Creature	3	-1
Land Grant	1	Sorcery	0	-2
Daze	1	Instant	0	-2
Thunderclap	1	Instant	0	-3
Ricochet Trap	1	Instant	R	-3

Table 19: Reduced Casting Cost

Card	Decks	Type	ACC	Delta
Frantic Search	17	Instant	0	-3
Dig Through Time	6	Instant	UU	-6
Chord of Calling	5	Instant	0	-3
Snap	4	Instant	0	-2

Table 19: Reduced Casting Cost

Card	Decks	Type	ACC	Delta
Time Spiral	2	Sorcery	0	-6
Tasigur, the Golden Fang	2	Creature	B	-5
Treasure Cruise	2	Sorcery	U	-7
Unwind	1	Instant	0	-3
Reckless Bushwhacker	1	Creature	1R	-1
Temporal Mastery	1	Sorcery	1U	-5
Mulldrifter	1	Creature	2U	-2
Devastation Tide	1	Sorcery	1U	-3
Temporal Trespass	1	Sorcery	UUU	-8

#### B.4 Tables for Section 2.4: Multiple Mana

Table 20: Multiple mana sorted by count

Card	Decks	PR	Cost	CMC	Type
Force of Will	40	0.85	3UU	5	Instant
Mana Drain	38	0.81	UU	2	Instant
Ad Nauseam	34	0.67	3BB	5	Instant
Necropotence	26	0.51	BBB	3	Enchantment
Counterspell	20	0.43	UU	2	Instant
Narset's Reversal	16	0.34	UU	2	Instant
Eternal Witness	15	0.36	1GG	3	Creature
Protean Hulk	13	0.31	5GG	7	Creature
Praetor's Grasp	11	0.22	1BB	3	Sorcery
Grim Tutor	9	0.18	1BB	3	Sorcery
Grand Abolisher	9	0.29	WW	2	Creature
Razaketh, the Foulblooded	9	0.18	5BBB	8	Creature
Eldritch Evolution	8	0.19	1GG	3	Sorcery
Runic Armasaur	8	0.19	1GG	3	Creature
Dark Petition	8	0.16	3BB	5	Sorcery
Dig Through Time	6	0.13	6UU	8	Instant
Leonin Relic-Warder	6	0.19	WW	2	Creature
Narset, Parter of Veils	6	0.13	1UU	3	Planeswalker
Jace, Wielder of Mysteries	6	0.13	1UUU	4	Planeswalker
Dread Return	6	0.12	2BB	4	Sorcery
Finale of Devastation	5	0.12	XGG	2	Sorcery
Chord of Calling	5	0.12	XGGG	3	Instant
Doomsday	5	0.10	BBB	3	Sorcery
Consecrated Sphinx	5	0.11	4UU	6	Creature
Linvala, Keeper of Silence	5	0.16	2WW	4	Creature
Jin-Gitaxias, Core Augur	5	0.11	8UU	10	Creature
Natural Order	5	0.12	2GG	4	Sorcery
Mind's Desire	5	0.11	4UU	6	Sorcery
Muddle the Mixture	5	0.11	UU	2	Instant
Transmute Artifact	5	0.11	UU	2	Sorcery

Table 20: Multiple mana sorted by count

Card	Decks	PR	Cost	CMC	Type
Squee, the Immortal	4	0.13	1RR	3	Creature
Body Snatcher	4	0.08	2BB	4	Creature
Vexing Shusher	4	0.22	R/GR/G	2	Creature
Whir of Invention	4	0.09	XUUU	3	Instant
Worldgorger Dragon	4	0.13	3RRR	6	Creature
Angel of Glory's Rise	4	0.13	5WW	7	Creature
Phyrexian Delver	3	0.06	3BB	5	Creature
Elesh Norn, Grand Cenobite	3	0.10	5WW	7	Creature
Aura of Silence	3	0.10	1WW	3	Enchantment
Bane of Progress	3	0.07	4GG	6	Creature
Temur Sabertooth	3	0.07	2GG	4	Creature
Karmic Guide	3	0.10	3WW	5	Creature
Ashiok, Dream Render	3	0.08	1U/BU/B	3	Planeswalker
Misthollow Griffin	3	0.06	2UU	4	Creature
Leyline of the Void	3	0.06	2BB	4	Enchantment
Kiki-Jiki, Mirror Breaker	3	0.10	2RRR	5	Creature
Necrotic Ooze	3	0.06	2BB	4	Creature
Pull from Tomorrow	3	0.06	XUU	2	Instant
Grasp of Fate	3	0.10	1WW	3	Enchantment
Seedborn Muse	3	0.07	3GG	5	Creature
Massacre	3	0.06	2BB	4	Sorcery
Misdirection	3	0.06	3UU	5	Instant
Druids' Repository	2	0.05	1GG	3	Enchantment
Squirrel Nest	2	0.05	1GG	3	Enchantment
Splinter Twin	2	0.07	2RR	4	Enchantment
Damnation	2	0.04	2BB	4	Sorcery
Legacy's Allure	2	0.04	UU	2	Enchantment
Weird Harvest	2	0.05	XGG	2	Sorcery
Bonus Round	2	0.07	1RR	3	Sorcery
Woodland Bellower	2	0.05	4GG	6	Creature
Somberwald Stag	2	0.05	3GG	5	Creature
Regal Force	2	0.05	4GGG	7	Creature
Time Spiral	2	0.04	4UU	6	Sorcery
Humility	2	0.06	2WW	4	Enchantment
Final Fortune	2	0.07	RR	2	Instant
Selvala, Heart of the Wilds	2	0.05	1GG	3	Creature
Seasons Past	2	0.05	4GG	6	Sorcery
Mikaeus, the Unhallowed	2	0.04	3BBB	6	Creature
Exsanguinate	2	0.04	XBB	2	Sorcery
Sweltering Suns	2	0.07	1RR	3	Sorcery
Bolas's Citadel	2	0.04	3BBB	6	Artifact
Blue Sun's Zenith	2	0.04	XUUU	3	Instant
Nature's Will	2	0.05	2GG	4	Enchantment
Warrior en-Kor	2	0.06	WW	2	Creature
Enter the Infinite	2	0.04	8UUUU	12	Sorcery

Table 20: Multiple mana sorted by count

Card	Decks	PR	Cost	CMC	Type
Power Artifact	2	0.04	UU	2	Enchantment
Sidisi, Undead Vizier	2	0.04	3BB	5	Creature
Tooth and Nail	1	0.02	5GG	7	Sorcery
Prowling Serpopard	1	0.02	1GG	3	Creature
Harmonize	1	0.02	2GG	4	Sorcery
Palinchron	1	0.02	5UU	7	Creature
Eladamri, Lord of Leaves	1	0.02	GG	2	Creature
Uncage the Menagerie	1	0.02	XGG	2	Sorcery
Gray Merchant of Asphodel	1	0.02	3BB	5	Creature
Kamahl, Fist of Krosa	1	0.02	4GG	6	Creature
Greater Good	1	0.02	2GG	4	Enchantment
Finale of Promise	1	0.03	XRR	2	Sorcery
Yahenni's Expertise	1	0.02	2BB	4	Sorcery
Mindslicer	1	0.02	2BB	4	Creature
Goblin Dark-Dwellers	1	0.03	3RR	5	Creature
Mission Briefing	1	0.02	UU	2	Instant
Recurring Insight	1	0.02	4UU	6	Sorcery
Teferi, Temporal Archmage	1	0.02	4UU	6	Planeswalker
Bow of Nylea	1	0.02	1GG	3	Enchantment Artifact
Time Warp	1	0.02	3UU	5	Sorcery
Reshape	1	0.02	XUU	2	Sorcery
Sign in Blood	1	0.02	BB	2	Sorcery
Nezahal, Primal Tide	1	0.02	5UU	7	Creature
Capture of Jingzhou	1	0.02	3UU	5	Sorcery
Temporal Mastery	1	0.02	5UU	7	Sorcery
Dosan the Falling Leaf	1	0.02	1GG	3	Creature
Sun Titan	1	0.03	4WW	6	Creature
Slithermuse	1	0.02	2UU	4	Creature
Garruk, Primal Hunter	1	0.02	2GGG	5	Planeswalker
Bloodghast	1	0.02	BB	2	Creature
Craterhoof Behemoth	1	0.02	5GGG	8	Creature
Part the Waterveil	1	0.02	4UU	6	Sorcery
Mystic Confluence	1	0.02	3UU	5	Instant
Ravaging Riftwurm	1	0.02	1GG	3	Creature
Fiery Confluence	1	0.03	2RR	4	Sorcery
Niv-Mizzet, Dracogenius	1	0.04	2UURR	6	Creature
Karn's Temporal Sundering	1	0.02	4UU	6	Sorcery
Genesis Hydra	1	0.02	XGG	2	Creature
Anafenza, Kin-Tree Spirit	1	0.03	WW	2	Creature
Possibility Storm	1	0.03	3RR	5	Enchantment
Fiend Hunter	1	0.03	1WW	3	Creature
Turnabout	1	0.02	2UU	4	Instant
Oppression	1	0.02	1BB	3	Enchantment
Counterbalance	1	0.02	UU	2	Enchantment
Diminishing Returns	1	0.02	2UU	4	Sorcery

Table 20: Multiple mana sorted by count

Card	Decks	PR	Cost	CMC	Type
Murderous Redcap	1	0.04	2B/RB/R	4	Creature
Devastation Tide	1	0.02	3UU	5	Sorcery
Morselhoarder	1	0.06	4R/GR/G	6	Creature
Genesis Wave	1	0.02	XGGG	3	Sorcery
Nexus of Fate	1	0.02	5UU	7	Instant
Temporal Trespass	1	0.02	8UUU	11	Sorcery
Dualcaster Mage	1	0.03	1RR	3	Creature
Jace, the Mind Sculptor	1	0.02	2UU	4	Planeswalker
Shadow of Doubt	1	0.03	U/BU/B	2	Instant
Temporal Manipulation	1	0.02	3UU	5	Sorcery
Kederekt Leviathan	1	0.02	6UU	8	Creature
Beast Whisperer	1	0.02	2GG	4	Creature
Smothering Abomination	1	0.02	2BB	4	Creature
Pulse of the Grid	1	0.02	1UU	3	Instant
Tezzeret the Seeker	1	0.02	3UU	5	Planeswalker
Walk the Aeons	1	0.02	4UU	6	Sorcery
Momentous Fall	1	0.02	2GG	4	Instant
Dragon Mage	1	0.03	5RR	7	Creature
Sygg, River Cutthroat	1	0.03	U/BU/B	2	Creature
Rishkar's Expertise	1	0.02	4GG	6	Sorcery
Hokori, Dust Drinker	1	0.03	2WW	4	Creature
Final Parting	1	0.02	3BB	5	Sorcery

## B.5 Tables for Section 2.5: Ability and Keywords

Table 21: Keywords sorted by unique count

Keyword	Total Count	Unique Count
Flying	171	44
Flash	65	15
Flashback	33	8
Trample	22	8
Haste	12	8
Equip	16	7
Partner	46	7
Cycling	8	6
Kicker	9	5
Dredge	7	5
Defender	12	4
Delve	11	4
Entwine	12	3
Reach	4	3
Devoid	4	3
Protection	6	3
Menace	3	3

Table 21: Keywords sorted by unique count

Keyword	Total Count	Unique Count
Transmute	6	2
Exploit	3	2
Unearth	5	2
Cipher	2	2
Lifelink	23	2
Soulbond	2	2
Overload	32	2
Storm	44	2
Indestructible	2	2
Vigilance	4	2
Exalted	18	2
Deathtouch	3	2
Buyback	2	2
First strike	4	2
Miracle	2	2
Evoke	2	2
Improvise	4	1
Madness	2	1
Modular	1	1
Ascend	1	1
Level up	1	1
Echo	3	1
Jump	1	1
Annihilator	2	1
Fading	2	1
Cumulative upkeep	45	1
Retrace	1	1
Replicate	2	1
Sunburst	1	1
Infect	1	1
Extort	1	1
Multikicker	5	1
Megamorph	1	1
Rebound	1	1
Persist	1	1
Convoke	5	1
Splice	1	1
Morph	1	1
Shadow	1	1
Vanishing	1	1
Undaunted	1	1
Split second	12	1
Prowl	1	1
Surge	1	1
Intimidate	2	1

Table 21: Keywords sorted by unique count

Keyword	Total Count	Unique Count
Fuse	3	1
Dethrone	1	1

Table 22: Ability Words sorted by unique count

Ability Word	Total Count	Unique Count
Threshold	32	4
Imprint	79	3
Landfall	2	2
Lieutenant	2	2
Spell mastery	8	1
Ferocious	1	1
Parley	1	1
Delirium	1	1
Rally	2	1
Eminence	1	1
Strive	2	1
Metalcraft	26	1

## B.6 Tables for Section 2.6.1: ETBs and Triggered Abilities

Table 23: Hard-coded exclusion triggers

Artifacts:	Mana Crypt	Mana Vault		
Lands:	City of Brass	Forbidden Orchard	City of Traitors	Thran Quarry
Instants:	Pact of Negation	Pact of the Titan	Intervention Pact	Slaughter Pact
	Summoner's Pact			

Table 24: ETBs sorted by count

Card	Decks	PR	Triggered By	Type
Gilded Drake	26	0.55	Self	Creature
Animate Dead	18	0.35	Self	Enchantment
Necromancy	18	0.35	Self	Enchantment
Eternal Witness	15	0.36	Self	Creature
Dance of the Dead	12	0.24	Self	Enchantment
Spellseeker	12	0.26	Self	Creature
Riftsweeper	6	0.14	Self	Creature
Snapcaster Mage	6	0.13	Self	Creature
Leonin Relic-Warder	6	0.19	Self	Creature
Reclamation Sage	5	0.12	Self	Creature
Rest in Peace	4	0.13	Self	Enchantment
Worldgorger Dragon	4	0.13	Self	Creature
Body Snatcher	4	0.08	Self	Creature

Table 24: ETBs sorted by count

Card	Decks	PR	Triggered By	Type
Angel of Glory's Rise	4	0.13	Self	Creature
Imperial Recruiter	3	0.10	Self	Creature
Phyrexian Delver	3	0.06	Self	Creature
Grasp of Fate	3	0.10	Self	Enchantment
Bane of Progress	3	0.07	Self	Creature
Karmic Guide	3	0.10	Self	Creature
Cloud of Faeries	2	0.04	Self	Creature
Wood Elves	2	0.05	Self	Creature
General Tazri	2	0.29	Self	Creature
Village Bell-Ringer	2	0.06	Self	Creature
Woodland Bellower	2	0.05	Self	Creature
Kalastria Healer	2	0.04	Either-Or	Creature
Regal Force	2	0.05	Self	Creature
Somberwald Stag	2	0.05	Self	Creature
Selvala, Heart of the Wilds	2	0.05	Other	Creature
Felidar Guardian	2	0.06	Self	Creature
Manglehorn	2	0.05	Self	Creature
Hagra Diabolist	2	0.04	Either-Or	Creature
Halimar Excavator	2	0.04	Either-Or	Creature
Reckless Bushwhacker	1	0.03	Self	Creature
Mausoleum Wanderer	1	0.02	Other	Creature
Dualcaster Mage	1	0.03	Self	Creature
Goblin Matron	1	0.03	Self	Creature
Sylvan Ranger	1	0.02	Self	Creature
Mogis's Marauder	1	0.02	Self	Creature
Spellstutter Sprite	1	0.02	Self	Creature
Niv-Mizzet Reborn	1	0.14	Self	Creature
Mulldrifter	1	0.02	Self	Creature
Purphoros, God of the Forge	1	0.03	Other	Enchantment Creature
Fiend Hunter	1	0.03	Self	Creature
Palinchron	1	0.02	Self	Creature
Great Oak Guardian	1	0.02	Self	Creature
Kederekt Leviathan	1	0.02	Self	Creature
Kiri-Onna	1	0.02	Self	Creature
Sparkcaster	1	0.06	Self	Creature
Gray Merchant of Asphodel	1	0.02	Self	Creature
Bond Beetle	1	0.02	Self	Creature
Hammer of Nazahn	1	0.02	Either-Or	Artifact
Lightning Mauler	1	0.03	Either-Or	Creature
Wingcrafter	1	0.02	Either-Or	Creature
Trinket Mage	1	0.02	Self	Creature
Pestermite	1	0.02	Self	Creature
Deceiver Exarch	1	0.02	Self	Creature
Anafenza, Kin-Tree Spirit	1	0.03	Other	Creature
Bojuka Bog	1	0.02	Self	Land

Table 24: ETBs sorted by count

Card	Decks	PR	Triggered By	Type
Generous Patron	1	0.02	Self	Creature
Whirlpool Warrior	1	0.04	Self	Creature
Phyrexian Dreadnought	1	0.02	Self	Artifact Creature
Sun Titan	1	0.03	Self	Creature
Altar of the Brood	1	0.02	Other	Artifact
Nantuko Tracer	1	0.02	Self	Creature
Plaguecrafter	1	0.02	Self	Creature
Fleshbag Marauder	1	0.02	Self	Creature
Ancestral Statue	1	0.02	Self	Artifact Creature
Goblin Dark-Dwellers	1	0.03	Self	Creature
Elvish Visionary	1	0.02	Self	Creature
Channeler Initiate	1	0.02	Self	Creature
Spine of Ish Sah	1	0.02	Self	Artifact
Murderous Redcap	1	0.04	Self	Creature
Bloodghast	1	0.02	Other	Creature
Goblin Bushwhacker	1	0.03	Self	Creature
Faerie Miscreant	1	0.02	Self	Creature
Peregrine Drake	1	0.02	Self	Creature
Craterhoof Behemoth	1	0.02	Self	Creature
Thought-Knot Seer	1	0.02	Self	Creature
Dire Fleet Daredevil	1	0.03	Self	Creature

Table 25: Triggered abilities sorted by count

Card	Decks	PR	Type
Mystic Remora	45	0.96	Enchantment
Carpet of Flowers	42	1.00	Enchantment
Dark Confidant	39	0.76	Creature
Sylvan Library	39	0.93	Enchantment
Necropotence	26	0.51	Enchantment
Tymna the Weaver	20	0.67	Creature
Wild Growth	19	0.45	Enchantment
Paradox Engine	16	0.25	Artifact
Utopia Sprawl	15	0.36	Enchantment
Rhyistic Study	13	0.28	Enchantment
Protean Hulk	13	0.31	Creature
Baral, Chief of Compliance	8	0.17	Creature
Aetherflux Reservoir	8	0.13	Artifact
Runic Armasaur	8	0.19	Creature
Narcomoeba	7	0.15	Creature
Smothering Tithe	5	0.16	Enchantment
Blood Artist	5	0.10	Creature
Consecrated Sphinx	5	0.11	Creature
Jin-Gitaxias, Core Augur	5	0.11	Creature
Skullclamp	5	0.08	Artifact

Table 25: Triggered abilities sorted by count

Card	Decks	PR	Type
Cephalid Illusionist	5	0.11	Creature
Rings of Brightearth	4	0.06	Artifact
Vial Smasher the Fierce	4	0.14	Creature
Eternal Scourge	4	0.06	Creature
Inventors' Fair	4	0.06	Land
Pattern of Rebirth	4	0.10	Enchantment
Mindblade Render	3	0.06	Creature
Zur the Enchanter	3	0.12	Creature
Shield Sphere	3	0.05	Artifact Creature
Nihil Spellbomb	3	0.06	Artifact
Tana, the Bloodsower	3	0.17	Creature
Kraum, Ludevic's Opus	3	0.13	Creature
Waste Not	3	0.06	Enchantment
Zulaport Cutthroat	3	0.06	Creature
Druuids' Repository	2	0.05	Enchantment
Derevi, Empyrial Tactician	2	0.12	Creature
Yidris, Maelstrom Wielder	2	0.15	Creature
Najeela, the Blade-Blossom	2	0.29	Creature
Academy Rector	2	0.06	Creature
Keen Sense	2	0.05	Enchantment
Rishkar, Peema Renegade	2	0.05	Creature
Legacy's Allure	2	0.04	Enchantment
Nature's Will	2	0.05	Enchantment
Kozilek's Return	2	0.03	Instant
Curiosity	2	0.04	Enchantment
Golgari Thug	2	0.04	Creature
Glimpse of Nature	2	0.05	Sorcery
Tangle Wire	2	0.03	Artifact
Mirri's Guile	2	0.05	Enchantment
Myr Moonvessel	2	0.03	Artifact Creature
Compost	2	0.05	Enchantment
Edric, Spymaster of Trest	2	0.06	Creature
Anafenza, the Foremost	2	0.10	Creature
Breya, Etherium Shaper	2	0.17	Artifact Creature
Mikaeus, the Unhallowed	2	0.04	Creature
Azra Oddsmaker	2	0.07	Creature
Kozilek, Butcher of Truth	2	0.03	Creature
Verity Circle	2	0.04	Enchantment
Sire of Insanity	2	0.07	Creature
Sidisi, Undead Vizier	2	0.04	Creature
Nezahal, Primal Tide	1	0.02	Creature
Myr Retriever	1	0.02	Artifact Creature
Tishana, Voice of Thunder	1	0.03	Creature
Luminarch Ascension	1	0.03	Enchantment
Argentum Armor	1	0.02	Artifact

Table 25: Triggered abilities sorted by count

Card	Decks	PR	Type
Rashmi, Eternities Crafter	1	0.03	Creature
Mindslicer	1	0.02	Creature
Possibility Storm	1	0.03	Enchantment
Goblin Sharpshooter	1	0.03	Creature
Momir Vig, Simic Visionary	1	0.03	Creature
The Chain Veil	1	0.02	Artifact
Ikra Shidiqi, the Usurper	1	0.03	Creature
Meren of Clan Nel Toth	1	0.03	Creature
Search for Azcanta	1	0.02	Enchantment
Tendershoot Dryad	1	0.02	Creature
Circu, Dimir Lobotomist	1	0.03	Creature
Gaea's Blessing	1	0.02	Sorcery
Nightveil Sprite	1	0.02	Creature
Duskwatch Recruiter	1	0.02	Creature
Thousand-Year Storm	1	0.04	Enchantment
Grim Flayer	1	0.03	Creature
Junk Diver	1	0.02	Artifact Creature
Contamination	1	0.02	Enchantment
Thing in the Ice	1	0.02	Creature
Chalice of the Void	1	0.02	Artifact
Slithermuse	1	0.02	Creature
Animar, Soul of Elements	1	0.07	Creature
Niv-Mizzet, Dracogenius	1	0.04	Creature
Nettle Sentinel	1	0.02	Creature
Burgeoning	1	0.02	Enchantment
Genesis Hydra	1	0.02	Creature
Bruse Tarl, Boorish Herder	1	0.06	Creature
Oppression	1	0.02	Enchantment
Phyrexian Devourer	1	0.02	Artifact Creature
Godo, Bandit Warlord	1	0.03	Creature
Xantid Swarm	1	0.02	Creature
Counterbalance	1	0.02	Enchantment
Flagstones of Trokair	1	0.03	Land
Disciple of the Vault	1	0.02	Creature
The Ur-Dragon	1	0.14	Creature
Sidisi, Brood Tyrant	1	0.04	Creature
Chromatic Star	1	0.02	Artifact
Blisterpod	1	0.02	Creature
Prossh, Skyraider of Kher	1	0.06	Creature
Jeleva, Nephalaia's Scourge	1	0.05	Creature
Hydroid Krasis	1	0.03	Creature
The Gitrog Monster	1	0.03	Creature
Hangarback Walker	1	0.02	Artifact Creature
Looter il-Kor	1	0.02	Creature
Stasis	1	0.02	Enchantment

Table 25: Triggered abilities sorted by count

Card	Decks	PR	Type
Sidisi's Faithful	1	0.02	Creature
Beast Whisperer	1	0.02	Creature
Smothering Abomination	1	0.02	Creature
Bloodchief Ascension	1	0.02	Enchantment
Helm of the Host	1	0.02	Artifact
Scrap Trawler	1	0.02	Artifact Creature
Dragon Mage	1	0.03	Creature
Sygg, River Cutthroat	1	0.03	Creature
Intruder Alarm	1	0.02	Enchantment
Hokori, Dust Drinker	1	0.03	Creature

## B.7 Tables for Section 2.6.2: Activated Abilities

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Mana Crypt	63	1.00	Artifact	True	False
Sol Ring	62	0.98	Artifact	True	False
Mox Diamond	61	0.97	Artifact	True	False
Chrome Mox	61	0.97	Artifact	True	False
Polluted Delta	57	0.90	Land	False	True
Misty Rainforest	57	0.90	Land	False	True
Verdant Catacombs	55	0.87	Land	False	True
Flooded Strand	53	0.84	Land	False	True
Scalding Tarn	51	0.81	Land	False	True
Bloodstained Mire	50	0.79	Land	False	True
Wooded Foothills	50	0.79	Land	False	True
Marsh Flats	50	0.79	Land	False	True
Windswept Heath	49	0.78	Land	False	True
Mana Vault	42	0.67	Artifact	True	False
Birds of Paradise	39	0.93	Creature	True	False
Lotus Petal	39	0.62	Artifact	True	False
Arid Mesa	33	0.52	Land	False	True
Deathrite Shaman	33	0.94	Creature	False	True
Sensei's Divining Top	33	0.52	Artifact	False	True
Fyndhorn Elves	32	0.76	Creature	True	False
Arbor Elf	32	0.76	Creature	False	True
Fellwar Stone	32	0.51	Artifact	True	False
Llanowar Elves	31	0.74	Creature	True	False
Grim Monolith	31	0.49	Artifact	True	True
Elvish Mystic	30	0.71	Creature	True	False
Mox Opal	26	0.41	Artifact	True	False
Elves of Deep Shadow	26	0.74	Creature	True	False
Necropotence	26	0.51	Enchantment	False	True
Talisman of Dominance	22	0.56	Artifact	True	False

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Lion's Eye Diamond	22	0.35	Artifact	True	False
Avacyn's Pilgrim	20	0.91	Creature	True	False
Survival of the Fittest	18	0.43	Enchantment	False	True
Dimir Signet	18	0.46	Artifact	True	False
Isochron Scepter	17	0.27	Artifact	False	True
Noble Hierarch	17	1.00	Creature	True	False
Priest of Titania	16	0.38	Creature	True	False
Boreal Druid	14	0.33	Creature	True	False
Thrasios, Triton Hero	14	0.45	Creature	False	True
Bloom Tender	13	0.31	Creature	True	False
Jace, Vryn's Prodigy	12	0.26	Creature	False	True
Elvish Spirit Guide	10	0.24	Creature	True	False
Talisman of Progress	9	0.36	Artifact	True	False
Razaketh, the Foulblooded	9	0.18	Creature	False	True
Aetherflux Reservoir	8	0.13	Artifact	False	True
Sylvan Safekeeper	8	0.19	Creature	False	True
Izzet Signet	8	0.35	Artifact	True	False
Talisman of Indulgence	8	0.29	Artifact	True	False
Caustic Caterpillar	8	0.19	Creature	False	True
Auriok Salvagers	8	0.26	Creature	False	True
Wall of Roots	7	0.17	Creature	True	False
Simic Signet	7	0.23	Artifact	True	False
Horizon Canopy	7	0.32	Land	True	True
Walking Ballista	7	0.11	Artifact Creature	False	True
Hope of Ghirapur	6	0.10	Artifact Creature	False	True
Narset, Parter of Veils	6	0.13	Planeswalker	False	True
Viscera Seer	6	0.12	Creature	False	True
Hermit Druid	6	0.14	Creature	False	True
Strip Mine	6	0.10	Land	True	True
Jace, Wielder of Mysteries	6	0.13	Planeswalker	False	True
Quirion Ranger	5	0.12	Creature	False	True
Prismatic Lens	5	0.08	Artifact	True	False
Azorius Signet	5	0.20	Artifact	True	False
Everflowing Chalice	5	0.08	Artifact	True	False
Apprentice Necromancer	5	0.10	Creature	False	True
Basalt Monolith	5	0.08	Artifact	True	True
Food Chain	5	0.12	Enchantment	True	False
Yisan, the Wanderer Bard	5	0.12	Creature	False	True
Mox Amber	5	0.08	Artifact	True	False
Nomads en-Kor	5	0.16	Creature	False	True
Cephalid Illusionist	5	0.11	Creature	False	True
Vexing Shusher	4	0.22	Creature	False	True
Thought Vessel	4	0.06	Artifact	True	False
Blood Pet	4	0.08	Creature	True	False
Inventors' Fair	4	0.06	Land	True	True

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Fatestitcher	4	0.09	Creature	False	True
Scroll Rack	4	0.06	Artifact	False	True
Birthing Pod	4	0.10	Artifact	False	True
Voltaic Key	4	0.06	Artifact	False	True
Dack Fayden	4	0.17	Planeswalker	False	True
Simian Spirit Guide	4	0.13	Creature	True	False
Wirewood Symbiote	3	0.07	Creature	False	True
Mind Stone	3	0.05	Artifact	True	True
Buried Ruin	3	0.05	Land	True	True
Devoted Druid	3	0.07	Creature	True	True
Temur Sabertooth	3	0.07	Creature	False	True
Ashiok, Dream Render	3	0.08	Planeswalker	False	True
Blast Zone	3	0.05	Land	True	True
Nykthos, Shrine to Nyx	3	0.05	Land	True	True
Kiki-Jiki, Mirror Breaker	3	0.10	Creature	False	True
Scavenging Ooze	3	0.07	Creature	False	True
Carrion Feeder	3	0.06	Creature	False	True
Nihil Spellbomb	3	0.06	Artifact	False	True
Bazaar of Baghdad	3	0.05	Land	False	True
Orcish Lumberjack	3	0.17	Creature	True	False
Orzhov Signet	3	0.10	Artifact	True	False
Pernicious Deed	3	0.09	Enchantment	False	True
Staff of Domination	3	0.05	Artifact	False	True
Aura of Silence	3	0.10	Enchantment	False	True
Druids' Repository	2	0.05	Enchantment	True	False
Memory Jar	2	0.03	Artifact	False	True
Altar of Dementia	2	0.03	Artifact	False	True
Najeela, the Blade-Blossom	2	0.29	Creature	False	True
Spellskite	2	0.04	Artifact Creature	False	True
Siren Stormtamer	2	0.04	Creature	False	True
Mouth of Ronom	2	0.03	Land	True	True
Candelabra of Tawnos	2	0.03	Artifact	False	True
Academy Ruins	2	0.04	Land	True	True
Earthcraft	2	0.05	Enchantment	False	True
Golgari Signet	2	0.06	Artifact	True	False
Legacy's Allure	2	0.04	Enchantment	False	True
Skirge Familiar	2	0.04	Creature	True	False
Springleaf Drum	2	0.03	Artifact	True	False
Overeager Apprentice	2	0.04	Creature	True	False
Fractured Powerstone	2	0.03	Artifact	True	True
Derevi, Empyrial Tactician	2	0.12	Creature	False	True
Serum Powder	2	0.03	Artifact	True	False
Ugin, the Spirit Dragon	2	0.03	Planeswalker	False	True
Children of Korlis	2	0.06	Creature	False	True
Freed from the Real	2	0.04	Enchantment	False	True

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Squandered Resources	2	0.06	Enchantment	True	False
Aether Spellbomb	2	0.04	Artifact	False	True
Tasigur, the Golden Fang	2	0.07	Creature	False	True
General Tazri	2	0.29	Creature	False	True
Shaman en-Kor	2	0.06	Creature	False	True
Lotus Bloom	2	0.03	Artifact	True	False
Metalworker	2	0.03	Artifact Creature	False	True
Codex Shredder	2	0.03	Artifact	False	True
Selvala, Heart of the Wilds	2	0.05	Creature	True	False
Hapless Researcher	2	0.04	Creature	False	True
Wild Cantor	2	0.11	Creature	True	False
Yavimaya Hollow	2	0.05	Land	True	True
Rakdos Signet	2	0.07	Artifact	True	False
Breya, Etherium Shaper	2	0.17	Artifact Creature	False	True
Emergence Zone	2	0.03	Land	True	True
Bloodthrone Vampire	2	0.04	Creature	False	True
Jeweled Amulet	2	0.03	Artifact	True	True
Goblin Bombardment	2	0.07	Enchantment	False	True
Expedition Map	2	0.03	Artifact	False	True
Scryb Ranger	2	0.05	Creature	False	True
Bolas's Citadel	2	0.04	Artifact	False	True
Warrior en-Kor	2	0.06	Creature	False	True
Thousand-Year Elixir	2	0.03	Artifact	False	True
Verity Circle	2	0.04	Enchantment	False	True
Thran Dynamo	2	0.03	Artifact	True	False
Fauna Shaman	2	0.05	Creature	False	True
Mausoleum Wanderer	1	0.02	Creature	False	True
Mistveil Plains	1	0.03	Land	True	True
Saffi Eriksdotter	1	0.05	Creature	False	True
Captain Sisay	1	0.05	Creature	False	True
Purphoros, God of the Forge	1	0.03	Enchantment Creature	False	True
Spawning Pit	1	0.02	Artifact	False	True
Sequestered Stash	1	0.02	Land	True	True
Krosan Wayfarer	1	0.02	Creature	False	True
Citanul Flute	1	0.02	Artifact	False	True
Luminarch Ascension	1	0.03	Enchantment	False	True
Somberwald Sage	1	0.02	Creature	True	False
Torch Courier	1	0.03	Creature	False	True
Goblin Sharpshooter	1	0.03	Creature	False	True
The Chain Veil	1	0.02	Artifact	False	True
Krark-Clan Ironworks	1	0.02	Artifact	True	False
Jace, the Mind Sculptor	1	0.02	Planeswalker	False	True
Noose Constrictor	1	0.02	Creature	False	True
Voyaging Satyr	1	0.02	Creature	False	True
Treasonous Ogre	1	0.03	Creature	True	False

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Welding Jar	1	0.02	Artifact	False	True
Sacred Guide	1	0.03	Creature	False	True
Petrified Field	1	0.02	Land	True	True
Qasali Pridemage	1	0.05	Creature	False	True
Greater Good	1	0.02	Enchantment	False	True
Varolz, the Scar-Striped	1	0.03	Creature	False	True
Eiganjo Castle	1	0.03	Land	True	True
Hedron Crawler	1	0.02	Artifact Creature	True	False
Wirewood Lodge	1	0.02	Land	True	True
Bow of Nylea	1	0.02	Enchantment Artifact	False	True
Karametra's Acolyte	1	0.02	Creature	False	True
Homeward Path	1	0.02	Land	True	True
Beastcaller Savant	1	0.02	Creature	True	False
Chromatic Star	1	0.02	Artifact	True	False
Sky Diamond	1	0.02	Artifact	True	False
Cephalid Inkshrouder	1	0.02	Creature	False	True
Pendelhaven	1	0.02	Land	True	True
Leaden Myr	1	0.02	Artifact Creature	True	False
Daretti, Scrap Savant	1	0.03	Planeswalker	False	True
Weathered Wayfarer	1	0.03	Creature	False	True
Palinchron	1	0.02	Creature	False	True
Honor-Worn Shaku	1	0.02	Artifact	True	True
Morselhoarder	1	0.06	Creature	True	False
Golgari Grave-Troll	1	0.02	Creature	False	True
Karn, the Great Creator	1	0.02	Planeswalker	False	True
Sliver Queen	1	0.14	Creature	False	True
Scion of the Ur-Dragon	1	0.14	Creature	False	True
Insolent Neonate	1	0.03	Creature	False	True
Plague Myr	1	0.02	Artifact Creature	True	False
Kiora's Follower	1	0.03	Creature	False	True
Whirlpool Warrior	1	0.04	Creature	False	True
Garruk, Primal Hunter	1	0.02	Planeswalker	False	True
Heart Warden	1	0.02	Creature	True	True
Nezahal, Primal Tide	1	0.02	Creature	False	True
Joraga Treespeaker	1	0.02	Creature	True	False
Mishra's Bauble	1	0.02	Artifact	False	True
Urza's Bauble	1	0.02	Artifact	False	True
Goblin Welder	1	0.03	Creature	False	True
Duskwatch Recruiter	1	0.02	Creature	False	True
Xantcha, Sleeper Agent	1	0.04	Creature	False	True
Arcbound Ravager	1	0.02	Artifact Creature	False	True
Birchlore Rangers	1	0.02	Creature	True	False
Sakura-Tribe Scout	1	0.02	Creature	False	True
Talisman of Impulse	1	0.06	Artifact	True	False
Chromatic Sphere	1	0.02	Artifact	True	False

Table 26: Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Worn Powerstone	1	0.02	Artifact	True	False
Okina, Temple to the Grandfathers	1	0.02	Land	True	True
Tinder Wall	1	0.06	Creature	True	True
Command Beacon	1	0.02	Land	True	True
Mother of Runes	1	0.03	Creature	False	True
Brass Squire	1	0.02	Artifact Creature	False	True
Arcum Dagsson	1	0.02	Creature	False	True
Minamo, School at Water's Edge	1	0.02	Land	True	True
Reassembling Skeleton	1	0.02	Creature	False	True
Niv-Mizzet, Dracogenius	1	0.04	Creature	False	True
High Market	1	0.02	Land	True	True
Phyrexian Devourer	1	0.02	Artifact Creature	False	True
Wayfarer's Bauble	1	0.02	Artifact	False	True
Ulvenwald Tracker	1	0.02	Creature	False	True
Palladium Myr	1	0.02	Artifact Creature	True	False
Sterling Grove	1	0.05	Enchantment	False	True
Gilded Lotus	1	0.02	Artifact	True	False
Blinkmoth Nexus	1	0.02	Land	True	True
Skirk Prospector	1	0.03	Creature	True	False
Gorilla Shaman	1	0.03	Creature	False	True
Guardian Idol	1	0.02	Artifact	True	True
Prossh, Skyraider of Kher	1	0.06	Creature	False	True
Blighted Bat	1	0.02	Creature	False	True
Kamahl, Fist of Krosa	1	0.02	Creature	False	True
Silver Myr	1	0.02	Artifact Creature	True	False
Dross Hopper	1	0.02	Creature	False	True
Hangarback Walker	1	0.02	Artifact Creature	False	True
Engineered Explosives	1	0.02	Artifact	False	True
Conjurer's Bauble	1	0.02	Artifact	False	True
Manakin	1	0.02	Artifact Creature	True	False
Heritage Druid	1	0.02	Creature	True	False
Astral Cornucopia	1	0.02	Artifact	False	True
Putrid Imp	1	0.02	Creature	False	True
Channeler Initiate	1	0.02	Creature	True	False
Teferi, Temporal Archmage	1	0.02	Planeswalker	False	True
Need for Speed	1	0.03	Enchantment	False	True
Mishra's Factory	1	0.02	Land	True	True
Tezzeret the Seeker	1	0.02	Planeswalker	False	True
Inkmoth Nexus	1	0.02	Land	True	True
Scavenger Grounds	1	0.02	Land	True	True

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Mana Crypt	63	1.00	Artifact	True	False

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Sol Ring	62	0.98	Artifact	True	False
Mox Diamond	61	0.97	Artifact	True	False
Chrome Mox	61	0.97	Artifact	True	False
Mana Vault	42	0.67	Artifact	True	False
Birds of Paradise	39	0.93	Creature	True	False
Lotus Petal	39	0.62	Artifact	True	False
Deathrite Shaman	33	0.94	Creature	False	True
Sensei's Divining Top	33	0.52	Artifact	False	True
Fyndhorn Elves	32	0.76	Creature	True	False
Arbor Elf	32	0.76	Creature	False	True
Fellwar Stone	32	0.51	Artifact	True	False
Llanowar Elves	31	0.74	Creature	True	False
Grim Monolith	31	0.49	Artifact	True	True
Elvish Mystic	30	0.71	Creature	True	False
Mox Opal	26	0.41	Artifact	True	False
Elves of Deep Shadow	26	0.74	Creature	True	False
Necropotence	26	0.51	Enchantment	False	True
Talisman of Dominance	22	0.56	Artifact	True	False
Lion's Eye Diamond	22	0.35	Artifact	True	False
Avacyn's Pilgrim	20	0.91	Creature	True	False
Survival of the Fittest	18	0.43	Enchantment	False	True
Dimir Signet	18	0.46	Artifact	True	False
Isochron Scepter	17	0.27	Artifact	False	True
Noble Hierarch	17	1.00	Creature	True	False
Priest of Titania	16	0.38	Creature	True	False
Boreal Druid	14	0.33	Creature	True	False
Thrasios, Triton Hero	14	0.45	Creature	False	True
Bloom Tender	13	0.31	Creature	True	False
Jace, Vryn's Prodigy	12	0.26	Creature	False	True
Elvish Spirit Guide	10	0.24	Creature	True	False
Talisman of Progress	9	0.36	Artifact	True	False
Razaketh, the Foulblooded	9	0.18	Creature	False	True
Aetherflux Reservoir	8	0.13	Artifact	False	True
Sylvan Safekeeper	8	0.19	Creature	False	True
Izzet Signet	8	0.35	Artifact	True	False
Talisman of Indulgence	8	0.29	Artifact	True	False
Caustic Caterpillar	8	0.19	Creature	False	True
Auriok Salvagers	8	0.26	Creature	False	True
Wall of Roots	7	0.17	Creature	True	False
Simic Signet	7	0.23	Artifact	True	False
Walking Ballista	7	0.11	Artifact Creature	False	True
Hope of Ghirapur	6	0.10	Artifact Creature	False	True
Narset, Parter of Veils	6	0.13	Planeswalker	False	True
Viscera Seer	6	0.12	Creature	False	True
Hermit Druid	6	0.14	Creature	False	True

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Jace, Wielder of Mysteries	6	0.13	Planeswalker	False	True
Quirion Ranger	5	0.12	Creature	False	True
Prismatic Lens	5	0.08	Artifact	True	False
Azorius Signet	5	0.20	Artifact	True	False
Everflowing Chalice	5	0.08	Artifact	True	False
Apprentice Necromancer	5	0.10	Creature	False	True
Basalt Monolith	5	0.08	Artifact	True	True
Food Chain	5	0.12	Enchantment	True	False
Yisan, the Wanderer Bard	5	0.12	Creature	False	True
Mox Amber	5	0.08	Artifact	True	False
Nomads en-Kor	5	0.16	Creature	False	True
Cephalid Illusionist	5	0.11	Creature	False	True
Vexing Shusher	4	0.22	Creature	False	True
Thought Vessel	4	0.06	Artifact	True	False
Blood Pet	4	0.08	Creature	True	False
Fatestitcher	4	0.09	Creature	False	True
Scroll Rack	4	0.06	Artifact	False	True
Birthing Pod	4	0.10	Artifact	False	True
Voltaic Key	4	0.06	Artifact	False	True
Dack Fayden	4	0.17	Planeswalker	False	True
Simian Spirit Guide	4	0.13	Creature	True	False
Wirewood Symbiote	3	0.07	Creature	False	True
Mind Stone	3	0.05	Artifact	True	True
Devoted Druid	3	0.07	Creature	True	True
Temur Sabertooth	3	0.07	Creature	False	True
Ashiok, Dream Render	3	0.08	Planeswalker	False	True
Kiki-Jiki, Mirror Breaker	3	0.10	Creature	False	True
Scavenging Ooze	3	0.07	Creature	False	True
Carrion Feeder	3	0.06	Creature	False	True
Nihil Spellbomb	3	0.06	Artifact	False	True
Orcish Lumberjack	3	0.17	Creature	True	False
Orzhov Signet	3	0.10	Artifact	True	False
Pernicious Deed	3	0.09	Enchantment	False	True
Staff of Domination	3	0.05	Artifact	False	True
Aura of Silence	3	0.10	Enchantment	False	True
Druids' Repository	2	0.05	Enchantment	True	False
Memory Jar	2	0.03	Artifact	False	True
Altar of Dementia	2	0.03	Artifact	False	True
Najeela, the Blade-Blossom	2	0.29	Creature	False	True
Spellsrite	2	0.04	Artifact Creature	False	True
Siren Stormtamer	2	0.04	Creature	False	True
Candelabra of Tawnos	2	0.03	Artifact	False	True
Earthcraft	2	0.05	Enchantment	False	True
Golgari Signet	2	0.06	Artifact	True	False
Legacy's Allure	2	0.04	Enchantment	False	True

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Skirge Familiar	2	0.04	Creature	True	False
Springleaf Drum	2	0.03	Artifact	True	False
Overeager Apprentice	2	0.04	Creature	True	False
Fractured Powerstone	2	0.03	Artifact	True	True
Derevi, Empyrial Tactician	2	0.12	Creature	False	True
Serum Powder	2	0.03	Artifact	True	False
Ugin, the Spirit Dragon	2	0.03	Planeswalker	False	True
Children of Korlis	2	0.06	Creature	False	True
Freed from the Real	2	0.04	Enchantment	False	True
Squandered Resources	2	0.06	Enchantment	True	False
Aether Spellbomb	2	0.04	Artifact	False	True
Tasigur, the Golden Fang	2	0.07	Creature	False	True
General Tazri	2	0.29	Creature	False	True
Shaman en-Kor	2	0.06	Creature	False	True
Lotus Bloom	2	0.03	Artifact	True	False
Metalworker	2	0.03	Artifact Creature	False	True
Codex Shredder	2	0.03	Artifact	False	True
Selvala, Heart of the Wilds	2	0.05	Creature	True	False
Hapless Researcher	2	0.04	Creature	False	True
Wild Cantor	2	0.11	Creature	True	False
Rakdos Signet	2	0.07	Artifact	True	False
Breya, Etherium Shaper	2	0.17	Artifact Creature	False	True
Bloodthrone Vampire	2	0.04	Creature	False	True
Jeweled Amulet	2	0.03	Artifact	True	True
Goblin Bombardment	2	0.07	Enchantment	False	True
Expedition Map	2	0.03	Artifact	False	True
Scryb Ranger	2	0.05	Creature	False	True
Bolas's Citadel	2	0.04	Artifact	False	True
Warrior en-Kor	2	0.06	Creature	False	True
Thousand-Year Elixir	2	0.03	Artifact	False	True
Verity Circle	2	0.04	Enchantment	False	True
Thran Dynamo	2	0.03	Artifact	True	False
Fauna Shaman	2	0.05	Creature	False	True
Mausoleum Wanderer	1	0.02	Creature	False	True
Saffi Eriksdotter	1	0.05	Creature	False	True
Captain Sisay	1	0.05	Creature	False	True
Purphoros, God of the Forge	1	0.03	Enchantment Creature	False	True
Spawning Pit	1	0.02	Artifact	False	True
Krosan Wayfarer	1	0.02	Creature	False	True
Citanul Flute	1	0.02	Artifact	False	True
Luminarch Ascension	1	0.03	Enchantment	False	True
Somberwald Sage	1	0.02	Creature	True	False
Torch Courier	1	0.03	Creature	False	True
Goblin Sharpshooter	1	0.03	Creature	False	True
The Chain Veil	1	0.02	Artifact	False	True

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Krark-Clan Ironworks	1	0.02	Artifact	True	False
Jace, the Mind Sculptor	1	0.02	Planeswalker	False	True
Noose Constrictor	1	0.02	Creature	False	True
Voyaging Satyr	1	0.02	Creature	False	True
Treasonous Ogre	1	0.03	Creature	True	False
Welding Jar	1	0.02	Artifact	False	True
Sacred Guide	1	0.03	Creature	False	True
Qasali Pridemage	1	0.05	Creature	False	True
Greater Good	1	0.02	Enchantment	False	True
Varolz, the Scar-Striped	1	0.03	Creature	False	True
Hedron Crawler	1	0.02	Artifact Creature	True	False
Bow of Nylea	1	0.02	Enchantment Artifact	False	True
Karametra's Acolyte	1	0.02	Creature	False	True
Beastcaller Savant	1	0.02	Creature	True	False
Chromatic Star	1	0.02	Artifact	True	False
Sky Diamond	1	0.02	Artifact	True	False
Cephalid Inkshrouder	1	0.02	Creature	False	True
Leaden Myr	1	0.02	Artifact Creature	True	False
Daretti, Scrap Savant	1	0.03	Planeswalker	False	True
Weathered Wayfarer	1	0.03	Creature	False	True
Palinchron	1	0.02	Creature	False	True
Honor-Worn Shaku	1	0.02	Artifact	True	True
Morselhoarder	1	0.06	Creature	True	False
Golgari Grave-Troll	1	0.02	Creature	False	True
Karn, the Great Creator	1	0.02	Planeswalker	False	True
Sliver Queen	1	0.14	Creature	False	True
Scion of the Ur-Dragon	1	0.14	Creature	False	True
Insolent Neonate	1	0.03	Creature	False	True
Plague Myr	1	0.02	Artifact Creature	True	False
Kiora's Follower	1	0.03	Creature	False	True
Whirlpool Warrior	1	0.04	Creature	False	True
Garruk, Primal Hunter	1	0.02	Planeswalker	False	True
Heart Warden	1	0.02	Creature	True	True
Nezahal, Primal Tide	1	0.02	Creature	False	True
Joraga Treespeaker	1	0.02	Creature	True	False
Mishra's Bauble	1	0.02	Artifact	False	True
Urza's Bauble	1	0.02	Artifact	False	True
Goblin Welder	1	0.03	Creature	False	True
Duskwatch Recruiter	1	0.02	Creature	False	True
Xantcha, Sleeper Agent	1	0.04	Creature	False	True
Arcbound Ravager	1	0.02	Artifact Creature	False	True
Birchlore Rangers	1	0.02	Creature	True	False
Sakura-Tribe Scout	1	0.02	Creature	False	True
Talisman of Impulse	1	0.06	Artifact	True	False
Chromatic Sphere	1	0.02	Artifact	True	False

Table 27: Nonland Activated sorted by count

Card	Decks	PR	Type	Mana	Non-mana
Worn Powerstone	1	0.02	Artifact	True	False
Tinder Wall	1	0.06	Creature	True	True
Mother of Runes	1	0.03	Creature	False	True
Brass Squire	1	0.02	Artifact Creature	False	True
Arcum Dagsson	1	0.02	Creature	False	True
Reassembling Skeleton	1	0.02	Creature	False	True
Niv-Mizzet, Dracogenius	1	0.04	Creature	False	True
Phyrexian Devourer	1	0.02	Artifact Creature	False	True
Wayfarer's Bauble	1	0.02	Artifact	False	True
Ulvenwald Tracker	1	0.02	Creature	False	True
Palladium Myr	1	0.02	Artifact Creature	True	False
Sterling Grove	1	0.05	Enchantment	False	True
Gilded Lotus	1	0.02	Artifact	True	False
Skirk Prospector	1	0.03	Creature	True	False
Gorilla Shaman	1	0.03	Creature	False	True
Guardian Idol	1	0.02	Artifact	True	True
Prossh, Skyraider of Kher	1	0.06	Creature	False	True
Blighted Bat	1	0.02	Creature	False	True
Kamahl, Fist of Krosa	1	0.02	Creature	False	True
Silver Myr	1	0.02	Artifact Creature	True	False
Dross Hopper	1	0.02	Creature	False	True
Hangarback Walker	1	0.02	Artifact Creature	False	True
Engineered Explosives	1	0.02	Artifact	False	True
Conjurer's Bauble	1	0.02	Artifact	False	True
Manakin	1	0.02	Artifact Creature	True	False
Heritage Druid	1	0.02	Creature	True	False
Astral Cornucopia	1	0.02	Artifact	False	True
Putrid Imp	1	0.02	Creature	False	True
Channeler Initiate	1	0.02	Creature	True	False
Teferi, Temporal Archmage	1	0.02	Planeswalker	False	True
Need for Speed	1	0.03	Enchantment	False	True
Tezzeret the Seeker	1	0.02	Planeswalker	False	True

Table 28: Mana Activated sorted by count

Card	Decks	PR	Type
Mana Crypt	63	1.00	Artifact
Sol Ring	62	0.98	Artifact
Mox Diamond	61	0.97	Artifact
Chrome Mox	61	0.97	Artifact
Mana Vault	42	0.67	Artifact
Birds of Paradise	39	0.93	Creature
Lotus Petal	39	0.62	Artifact
Fyndhorn Elves	32	0.76	Creature
Fellwar Stone	32	0.51	Artifact

Table 28: Mana Activated sorted by count

Card	Decks	PR	Type
Llanowar Elves	31	0.74	Creature
Grim Monolith	31	0.49	Artifact
Elvish Mystic	30	0.71	Creature
Mox Opal	26	0.41	Artifact
Elves of Deep Shadow	26	0.74	Creature
Talisman of Dominance	22	0.56	Artifact
Lion's Eye Diamond	22	0.35	Artifact
Avacyn's Pilgrim	20	0.91	Creature
Dimir Signet	18	0.46	Artifact
Noble Hierarch	17	1.00	Creature
Priest of Titania	16	0.38	Creature
Boreal Druid	14	0.33	Creature
Bloom Tender	13	0.31	Creature
Elvish Spirit Guide	10	0.24	Creature
Talisman of Progress	9	0.36	Artifact
Izzet Signet	8	0.35	Artifact
Talisman of Indulgence	8	0.29	Artifact
Wall of Roots	7	0.17	Creature
Simic Signet	7	0.23	Artifact
Horizon Canopy	7	0.32	Land
Strip Mine	6	0.10	Land
Prismatic Lens	5	0.08	Artifact
Azorius Signet	5	0.20	Artifact
Everflowing Chalice	5	0.08	Artifact
Basalt Monolith	5	0.08	Artifact
Food Chain	5	0.12	Enchantment
Mox Amber	5	0.08	Artifact
Thought Vessel	4	0.06	Artifact
Blood Pet	4	0.08	Creature
Inventors' Fair	4	0.06	Land
Simian Spirit Guide	4	0.13	Creature
Mind Stone	3	0.05	Artifact
Buried Ruin	3	0.05	Land
Devoted Druid	3	0.07	Creature
Blast Zone	3	0.05	Land
Nykthos, Shrine to Nyx	3	0.05	Land
Orcish Lumberjack	3	0.17	Creature
Orzhov Signet	3	0.10	Artifact
Druids' Repository	2	0.05	Enchantment
Mouth of Ronom	2	0.03	Land
Academy Ruins	2	0.04	Land
Golgari Signet	2	0.06	Artifact
Skirge Familiar	2	0.04	Creature
Springleaf Drum	2	0.03	Artifact
Overeager Apprentice	2	0.04	Creature

Table 28: Mana Activated sorted by count

Card	Decks	PR	Type
Fractured Powerstone	2	0.03	Artifact
Serum Powder	2	0.03	Artifact
Squandered Resources	2	0.06	Enchantment
Lotus Bloom	2	0.03	Artifact
Selvala, Heart of the Wilds	2	0.05	Creature
Wild Cantor	2	0.11	Creature
Yavimaya Hollow	2	0.05	Land
Rakdos Signet	2	0.07	Artifact
Emergence Zone	2	0.03	Land
Jeweled Amulet	2	0.03	Artifact
Thran Dynamo	2	0.03	Artifact
Mistveil Plains	1	0.03	Land
Sequestered Stash	1	0.02	Land
Somberwald Sage	1	0.02	Creature
Krark-Clan Ironworks	1	0.02	Artifact
Treasonous Ogre	1	0.03	Creature
Petrified Field	1	0.02	Land
Eiganjo Castle	1	0.03	Land
Hedron Crawler	1	0.02	Artifact Creature
Wirewood Lodge	1	0.02	Land
Homeward Path	1	0.02	Land
Beastcaller Savant	1	0.02	Creature
Chromatic Star	1	0.02	Artifact
Sky Diamond	1	0.02	Artifact
Pendelhaven	1	0.02	Land
Leaden Myr	1	0.02	Artifact Creature
Honor-Worn Shaku	1	0.02	Artifact
Morselhoarder	1	0.06	Creature
Plague Myr	1	0.02	Artifact Creature
Heart Warden	1	0.02	Creature
Joraga Treespeaker	1	0.02	Creature
Birchlore Rangers	1	0.02	Creature
Talisman of Impulse	1	0.06	Artifact
Chromatic Sphere	1	0.02	Artifact
Worn Powerstone	1	0.02	Artifact
Okin, Temple to the Grandfathers	1	0.02	Land
Tinder Wall	1	0.06	Creature
Command Beacon	1	0.02	Land
Minamo, School at Water's Edge	1	0.02	Land
High Market	1	0.02	Land
Palladium Myr	1	0.02	Artifact Creature
Gilded Lotus	1	0.02	Artifact
Blinkmoth Nexus	1	0.02	Land
Skirk Prospector	1	0.03	Creature
Guardian Idol	1	0.02	Artifact

Table 28: Mana Activated sorted by count

Card	Decks	PR	Type
Silver Myr	1	0.02	Artifact Creature
Manakin	1	0.02	Artifact Creature
Heritage Druid	1	0.02	Creature
Channeler Initiate	1	0.02	Creature
Mishra's Factory	1	0.02	Land
Inkmoth Nexus	1	0.02	Land
Scavenger Grounds	1	0.02	Land

Table 29: Non Mana Activated sorted by count

Card	Decks	PR	Type
Polluted Delta	57	0.90	Land
Misty Rainforest	57	0.90	Land
Verdant Catacombs	55	0.87	Land
Flooded Strand	53	0.84	Land
Scalding Tarn	51	0.81	Land
Bloodstained Mire	50	0.79	Land
Wooded Foothills	50	0.79	Land
Marsh Flats	50	0.79	Land
Windswept Heath	49	0.78	Land
Arid Mesa	33	0.52	Land
Deathrite Shaman	33	0.94	Creature
Sensei's Divining Top	33	0.52	Artifact
Arbor Elf	32	0.76	Creature
Grim Monolith	31	0.49	Artifact
Necropotence	26	0.51	Enchantment
Survival of the Fittest	18	0.43	Enchantment
Isochron Scepter	17	0.27	Artifact
Thrasiros, Triton Hero	14	0.45	Creature
Jace, Vryn's Prodigy	12	0.26	Creature
Razaketh, the Foulblooded	9	0.18	Creature
Aetherflux Reservoir	8	0.13	Artifact
Sylvan Safekeeper	8	0.19	Creature
Caustic Caterpillar	8	0.19	Creature
Auriok Salvagers	8	0.26	Creature
Horizon Canopy	7	0.32	Land
Walking Ballista	7	0.11	Artifact Creature
Hope of Ghirapur	6	0.10	Artifact Creature
Narset, Parter of Veils	6	0.13	Planeswalker
Viscera Seer	6	0.12	Creature
Hermit Druid	6	0.14	Creature
Strip Mine	6	0.10	Land
Jace, Wielder of Mysteries	6	0.13	Planeswalker
Quirion Ranger	5	0.12	Creature
Apprentice Necromancer	5	0.10	Creature

Table 29: Non Mana Activated sorted by count

Card	Decks	PR	Type
Basalt Monolith	5	0.08	Artifact
Yisan, the Wanderer Bard	5	0.12	Creature
Nomads en-Kor	5	0.16	Creature
Cephalid Illusionist	5	0.11	Creature
Vexing Shusher	4	0.22	Creature
Inventors' Fair	4	0.06	Land
Fatestitcher	4	0.09	Creature
Scroll Rack	4	0.06	Artifact
Birthing Pod	4	0.10	Artifact
Voltaic Key	4	0.06	Artifact
Dack Fayden	4	0.17	Planeswalker
Wirewood Symbiote	3	0.07	Creature
Mind Stone	3	0.05	Artifact
Buried Ruin	3	0.05	Land
Devoted Druid	3	0.07	Creature
Temur Sabertooth	3	0.07	Creature
Ashiok, Dream Render	3	0.08	Planeswalker
Blast Zone	3	0.05	Land
Nykthos, Shrine to Nyx	3	0.05	Land
Kiki-Jiki, Mirror Breaker	3	0.10	Creature
Scavenging Ooze	3	0.07	Creature
Carrion Feeder	3	0.06	Creature
Nihil Spellbomb	3	0.06	Artifact
Bazaar of Baghdad	3	0.05	Land
Pernicious Deed	3	0.09	Enchantment
Staff of Domination	3	0.05	Artifact
Aura of Silence	3	0.10	Enchantment
Memory Jar	2	0.03	Artifact
Altar of Dementia	2	0.03	Artifact
Najeela, the Blade-Blossom	2	0.29	Creature
Spellskite	2	0.04	Artifact Creature
Siren Stormtamer	2	0.04	Creature
Mouth of Ronom	2	0.03	Land
Candelabra of Tawnos	2	0.03	Artifact
Academy Ruins	2	0.04	Land
Earthcraft	2	0.05	Enchantment
Legacy's Allure	2	0.04	Enchantment
Fractured Powerstone	2	0.03	Artifact
Derevi, Empyrial Tactician	2	0.12	Creature
Ugin, the Spirit Dragon	2	0.03	Planeswalker
Children of Korlis	2	0.06	Creature
Freed from the Real	2	0.04	Enchantment
Aether Spellbomb	2	0.04	Artifact
Tasigur, the Golden Fang	2	0.07	Creature
General Tazri	2	0.29	Creature

Table 29: Non Mana Activated sorted by count

Card	Decks	PR	Type
Shaman en-Kor	2	0.06	Creature
Metalworker	2	0.03	Artifact Creature
Codex Shredder	2	0.03	Artifact
Hapless Researcher	2	0.04	Creature
Yavimaya Hollow	2	0.05	Land
Breya, Etherium Shaper	2	0.17	Artifact Creature
Emergence Zone	2	0.03	Land
Bloodthrone Vampire	2	0.04	Creature
Jeweled Amulet	2	0.03	Artifact
Goblin Bombardment	2	0.07	Enchantment
Expedition Map	2	0.03	Artifact
Scryb Ranger	2	0.05	Creature
Bolas's Citadel	2	0.04	Artifact
Warrior en-Kor	2	0.06	Creature
Thousand-Year Elixir	2	0.03	Artifact
Verity Circle	2	0.04	Enchantment
Fauna Shaman	2	0.05	Creature
Mausoleum Wanderer	1	0.02	Creature
Mistveil Plains	1	0.03	Land
Saffi Eriksdotter	1	0.05	Creature
Captain Sisay	1	0.05	Creature
Purphoros, God of the Forge	1	0.03	Enchantment Creature
Spawning Pit	1	0.02	Artifact
Sequestered Stash	1	0.02	Land
Krosan Wayfarer	1	0.02	Creature
Citanul Flute	1	0.02	Artifact
Luminarch Ascension	1	0.03	Enchantment
Torch Courier	1	0.03	Creature
Goblin Sharpshooter	1	0.03	Creature
The Chain Veil	1	0.02	Artifact
Jace, the Mind Sculptor	1	0.02	Planeswalker
Noose Constrictor	1	0.02	Creature
Voyaging Satyr	1	0.02	Creature
Welding Jar	1	0.02	Artifact
Sacred Guide	1	0.03	Creature
Petrified Field	1	0.02	Land
Qasali Pridemage	1	0.05	Creature
Greater Good	1	0.02	Enchantment
Varolz, the Scar-Striped	1	0.03	Creature
Eiganjo Castle	1	0.03	Land
Wirewood Lodge	1	0.02	Land
Bow of Nylea	1	0.02	Enchantment Artifact
Karametra's Acolyte	1	0.02	Creature
Homeward Path	1	0.02	Land
Cephalid Inkshrouder	1	0.02	Creature

Table 29: Non Mana Activated sorted by count

Card	Decks	PR	Type
Pendelhaven	1	0.02	Land
Daretti, Scrap Savant	1	0.03	Planeswalker
Weathered Wayfarer	1	0.03	Creature
Palinchron	1	0.02	Creature
Honor-Worn Shaku	1	0.02	Artifact
Golgari Grave-Troll	1	0.02	Creature
Karn, the Great Creator	1	0.02	Planeswalker
Sliver Queen	1	0.14	Creature
Scion of the Ur-Dragon	1	0.14	Creature
Insolent Neonate	1	0.03	Creature
Kiora's Follower	1	0.03	Creature
Whirlpool Warrior	1	0.04	Creature
Garruk, Primal Hunter	1	0.02	Planeswalker
Heart Warden	1	0.02	Creature
Nezahal, Primal Tide	1	0.02	Creature
Mishra's Bauble	1	0.02	Artifact
Urza's Bauble	1	0.02	Artifact
Goblin Welder	1	0.03	Creature
Duskwatch Recruiter	1	0.02	Creature
Xantcha, Sleeper Agent	1	0.04	Creature
Arcbound Ravager	1	0.02	Artifact Creature
Sakura-Tribe Scout	1	0.02	Creature
Okina, Temple to the Grandfathers	1	0.02	Land
Tinder Wall	1	0.06	Creature
Command Beacon	1	0.02	Land
Mother of Runes	1	0.03	Creature
Brass Squire	1	0.02	Artifact Creature
Arcum Dagsson	1	0.02	Creature
Minamo, School at Water's Edge	1	0.02	Land
Reassembling Skeleton	1	0.02	Creature
Niv-Mizzet, Dracogenius	1	0.04	Creature
High Market	1	0.02	Land
Phyrexian Devourer	1	0.02	Artifact Creature
Wayfarer's Bauble	1	0.02	Artifact
Ulvenwald Tracker	1	0.02	Creature
Sterling Grove	1	0.05	Enchantment
Blinkmoth Nexus	1	0.02	Land
Gorilla Shaman	1	0.03	Creature
Guardian Idol	1	0.02	Artifact
Prossh, Skyraider of Kher	1	0.06	Creature
Blighted Bat	1	0.02	Creature
Kamahl, Fist of Krosa	1	0.02	Creature
Dross Hopper	1	0.02	Creature
Hangarback Walker	1	0.02	Artifact Creature
Engineered Explosives	1	0.02	Artifact

Table 29: Non Mana Activated sorted by count

Card	Decks	PR	Type
Conjurer's Bauble	1	0.02	Artifact
Astral Cornucopia	1	0.02	Artifact
Putrid Imp	1	0.02	Creature
Teferi, Temporal Archmage	1	0.02	Planeswalker
Need for Speed	1	0.03	Enchantment
Mishra's Factory	1	0.02	Land
Tezzeret the Seeker	1	0.02	Planeswalker
Inkmoth Nexus	1	0.02	Land
Scavenger Grounds	1	0.02	Land

Table 30: Creature Activated sorted by count

Card	Decks	PR	Mana	Non-mana
Birds of Paradise	39	0.93	True	False
Deathrite Shaman	33	0.94	False	True
Fyndhorn Elves	32	0.76	True	False
Arbor Elf	32	0.76	False	True
Llanowar Elves	31	0.74	True	False
Elvish Mystic	30	0.71	True	False
Elves of Deep Shadow	26	0.74	True	False
Avacyn's Pilgrim	20	0.91	True	False
Noble Hierarch	17	1.00	True	False
Priest of Titania	16	0.38	True	False
Boreal Druid	14	0.33	True	False
Thrasios, Triton Hero	14	0.45	False	True
Bloom Tender	13	0.31	True	False
Jace, Vryn's Prodigy	12	0.26	False	True
Elvish Spirit Guide	10	0.24	True	False
Razaketh, the Foulblooded	9	0.18	False	True
Sylvan Safekeeper	8	0.19	False	True
Caustic Caterpillar	8	0.19	False	True
Auriok Salvagers	8	0.26	False	True
Wall of Roots	7	0.17	True	False
Walking Ballista	7	0.11	False	True
Hope of Ghirapur	6	0.10	False	True
Viscera Seer	6	0.12	False	True
Hermit Druid	6	0.14	False	True
Quirion Ranger	5	0.12	False	True
Apprentice Necromancer	5	0.10	False	True
Yisan, the Wanderer Bard	5	0.12	False	True
Nomads en-Kor	5	0.16	False	True
Cephalid Illusionist	5	0.11	False	True
Vexing Shusher	4	0.22	False	True
Blood Pet	4	0.08	True	False
Fatestitcher	4	0.09	False	True

Table 30: Creature Activated sorted by count

Card	Decks	PR	Mana	Non-mana
Simian Spirit Guide	4	0.13	True	False
Wirewood Symbiote	3	0.07	False	True
Devoted Druid	3	0.07	True	True
Temur Sabertooth	3	0.07	False	True
Kiki-Jiki, Mirror Breaker	3	0.10	False	True
Scavenging Ooze	3	0.07	False	True
Carriion Feeder	3	0.06	False	True
Orcish Lumberjack	3	0.17	True	False
Najeela, the Blade-Blossom	2	0.29	False	True
Spellskite	2	0.04	False	True
Siren Stormtamer	2	0.04	False	True
Skirge Familiar	2	0.04	True	False
Overeager Apprentice	2	0.04	True	False
Derevi, Empyrial Tactician	2	0.12	False	True
Children of Korlis	2	0.06	False	True
Tasigur, the Golden Fang	2	0.07	False	True
General Tazri	2	0.29	False	True
Shaman en-Kor	2	0.06	False	True
Metalworker	2	0.03	False	True
Selvala, Heart of the Wilds	2	0.05	True	False
Hapless Researcher	2	0.04	False	True
Wild Cantor	2	0.11	True	False
Breya, Etherium Shaper	2	0.17	False	True
Bloodthrone Vampire	2	0.04	False	True
Scryb Ranger	2	0.05	False	True
Warrior en-Kor	2	0.06	False	True
Fauna Shaman	2	0.05	False	True
Mausoleum Wanderer	1	0.02	False	True
Saffi Eriksdotter	1	0.05	False	True
Captain Sisay	1	0.05	False	True
Purphoros, God of the Forge	1	0.03	False	True
Krosan Wayfarer	1	0.02	False	True
Somberwald Sage	1	0.02	True	False
Torch Courier	1	0.03	False	True
Goblin Sharpshooter	1	0.03	False	True
Noose Constrictor	1	0.02	False	True
Voyaging Satyr	1	0.02	False	True
Treasonous Ogre	1	0.03	True	False
Sacred Guide	1	0.03	False	True
Qasali Pridemage	1	0.05	False	True
Varolz, the Scar-Striped	1	0.03	False	True
Hedron Crawler	1	0.02	True	False
Karametra's Acolyte	1	0.02	False	True
Beastcaller Savant	1	0.02	True	False
Cephalid Inkshrouder	1	0.02	False	True

Table 30: Creature Activated sorted by count

Card	Decks	PR	Mana	Non-mana
Leaden Myr	1	0.02	True	False
Weathered Wayfarer	1	0.03	False	True
Palinchron	1	0.02	False	True
Morselhoarder	1	0.06	True	False
Golgari Grave-Troll	1	0.02	False	True
Sliver Queen	1	0.14	False	True
Scion of the Ur-Dragon	1	0.14	False	True
Insolent Neonate	1	0.03	False	True
Plague Myr	1	0.02	True	False
Kiora's Follower	1	0.03	False	True
Whirlpool Warrior	1	0.04	False	True
Heart Warden	1	0.02	True	True
Nezahal, Primal Tide	1	0.02	False	True
Joraga Treespeaker	1	0.02	True	False
Goblin Welder	1	0.03	False	True
Duskwatch Recruiter	1	0.02	False	True
Xantcha, Sleeper Agent	1	0.04	False	True
Arcbound Ravager	1	0.02	False	True
Birchlore Rangers	1	0.02	True	False
Sakura-Tribe Scout	1	0.02	False	True
Tinder Wall	1	0.06	True	True
Mother of Runes	1	0.03	False	True
Brass Squire	1	0.02	False	True
Arcum Dagsson	1	0.02	False	True
Reassembling Skeleton	1	0.02	False	True
Niv-Mizzet, Dracogenius	1	0.04	False	True
Phyrexian Devourer	1	0.02	False	True
Ulvewald Tracker	1	0.02	False	True
Palladium Myr	1	0.02	True	False
Skirk Prospector	1	0.03	True	False
Gorilla Shaman	1	0.03	False	True
Prossh, Skyraider of Kher	1	0.06	False	True
Blighted Bat	1	0.02	False	True
Kamahl, Fist of Krosa	1	0.02	False	True
Silver Myr	1	0.02	True	False
Dross Hopper	1	0.02	False	True
Hangarback Walker	1	0.02	False	True
Manakin	1	0.02	True	False
Heritage Druid	1	0.02	True	False
Putrid Imp	1	0.02	False	True
Channeler Initiate	1	0.02	True	False

Table 31: Artifact Activated sorted by count

Card	Decks	PR	Mana	Non-mana
Mana Crypt	63	1.00	True	False
Sol Ring	62	0.98	True	False
Mox Diamond	61	0.97	True	False
Chrome Mox	61	0.97	True	False
Mana Vault	42	0.67	True	False
Lotus Petal	39	0.62	True	False
Sensei's Divining Top	33	0.52	False	True
Fellwar Stone	32	0.51	True	False
Grim Monolith	31	0.49	True	True
Mox Opal	26	0.41	True	False
Talisman of Dominance	22	0.56	True	False
Lion's Eye Diamond	22	0.35	True	False
Dimir Signet	18	0.46	True	False
Isochron Scepter	17	0.27	False	True
Talisman of Progress	9	0.36	True	False
Aetherflux Reservoir	8	0.13	False	True
Izzet Signet	8	0.35	True	False
Talisman of Indulgence	8	0.29	True	False
Simic Signet	7	0.23	True	False
Walking Ballista	7	0.11	False	True
Hope of Ghirapur	6	0.10	False	True
Prismatic Lens	5	0.08	True	False
Azorius Signet	5	0.20	True	False
Everflowing Chalice	5	0.08	True	False
Basalt Monolith	5	0.08	True	True
Mox Amber	5	0.08	True	False
Thought Vessel	4	0.06	True	False
Scroll Rack	4	0.06	False	True
Birthing Pod	4	0.10	False	True
Voltaic Key	4	0.06	False	True
Mind Stone	3	0.05	True	True
Nihil Spellbomb	3	0.06	False	True
Orzhov Signet	3	0.10	True	False
Staff of Domination	3	0.05	False	True
Memory Jar	2	0.03	False	True
Altar of Dementia	2	0.03	False	True
Spellsrite	2	0.04	False	True
Candelabra of Tawnos	2	0.03	False	True
Golgari Signet	2	0.06	True	False
Springleaf Drum	2	0.03	True	False
Fractured Powerstone	2	0.03	True	True
Serum Powder	2	0.03	True	False
Aether Spellbomb	2	0.04	False	True
Lotus Bloom	2	0.03	True	False
Metalworker	2	0.03	False	True

Table 31: Artifact Activated sorted by count

Card	Decks	PR	Mana	Non-mana
Codex Shredder	2	0.03	False	True
Rakdos Signet	2	0.07	True	False
Breya, Etherium Shaper	2	0.17	False	True
Jeweled Amulet	2	0.03	True	True
Expedition Map	2	0.03	False	True
Bolas's Citadel	2	0.04	False	True
Thousand-Year Elixir	2	0.03	False	True
Thran Dynamo	2	0.03	True	False
Spawning Pit	1	0.02	False	True
Citanul Flute	1	0.02	False	True
The Chain Veil	1	0.02	False	True
Krark-Clan Ironworks	1	0.02	True	False
Welding Jar	1	0.02	False	True
Hedron Crawler	1	0.02	True	False
Bow of Nylea	1	0.02	False	True
Chromatic Star	1	0.02	True	False
Sky Diamond	1	0.02	True	False
Leaden Myr	1	0.02	True	False
Honor-Worn Shaku	1	0.02	True	True
Plague Myr	1	0.02	True	False
Mishra's Bauble	1	0.02	False	True
Urza's Bauble	1	0.02	False	True
Arcbound Ravager	1	0.02	False	True
Talisman of Impulse	1	0.06	True	False
Chromatic Sphere	1	0.02	True	False
Worn Powerstone	1	0.02	True	False
Brass Squire	1	0.02	False	True
Phyrexian Devourer	1	0.02	False	True
Wayfarer's Bauble	1	0.02	False	True
Palladium Myr	1	0.02	True	False
Gilded Lotus	1	0.02	True	False
Guardian Idol	1	0.02	True	True
Silver Myr	1	0.02	True	False
Hangarback Walker	1	0.02	False	True
Engineered Explosives	1	0.02	False	True
Conjurer's Bauble	1	0.02	False	True
Manakin	1	0.02	True	False
Astral Cornucopia	1	0.02	False	True

## B.8 Tables for Section 3.1: Commander and Color Identity

Table 32: Commanders sorted by count

Commander	Decks	Color
Thrasiros, Triton Hero, Tymna the Weaver	10	WUBG

Table 32: Commanders sorted by count

Commander	Decks	Color
Thrasiros, Triton Hero, Vial Smasher the Fierce	4	UBRG
Tana, the Bloodsower, Tymna the Weaver	3	WBRG
Zur the Enchanter	3	WUB
Kraum, Ludevic's Opus, Tymna the Weaver	3	WUBR
Kess, Dissident Mage	3	UBR
Breya, Etherium Shaper	2	WUBR
Yidris, Maelstrom Wielder	2	UBRG
Najela, the Blade-Blossom	2	WUBRG
General Tazri	2	WUBRG
Tasigur, the Golden Fang	2	UBG
Sidisi, Undead Vizier	2	B
Captain Sisay	1	WG
The Mimeoplasm	1	UBG
Sliver Queen	1	WUBRG
The Gitrog Monster	1	BG
Niv-Mizzet Reborn	1	WUBRG
Arcum Dagsson	1	U
Ikra Shidiqi, the Usurper, Tymna the Weaver	1	WBG
Bruse Tarl, Boorish Herder, Tymna the Weaver	1	WBR
Jace, Vryn's Prodigy	1	U
Godo, Bandit Warlord	1	R
Rashmi, Eternities Crafter	1	UG
Momir Vig, Simic Visionary	1	UG
Varolz, the Scar-Striped	1	BG
Animar, Soul of Elements	1	URG
Scion of the Ur-Dragon	1	WUBRG
Selvala, Heart of the Wilds	1	G
Edric, Spymaster of Trest	1	UG
Yisan, the Wanderer Bard	1	G
Baral, Chief of Compliance	1	U
Meren of Clan Nel Toth	1	BG
Sidisi, Brood Tyrant	1	UBG
Xantcha, Sleeper Agent	1	BR
Prossh, Skyraider of Kher	1	BRG
Teferi, Temporal Archmage	1	U
Jeleva, Nephalia's Scourge	1	UBR