

# December TW 1 Report

December 2, 2021

## 1 GSF Sigma December 2021 TW 1 Report

### 1.1 Load Data

```
[ ]: import pandas as pd

file = 'Dec_TW_1.csv'

data = pd.read_csv(file, index_col = 0)
data = data.drop(['Instance', 'AllyCode', 'DiscordTag'], axis = 1)
data = data.set_index('Name')
```

### 1.2 Data Cleaning

```
[ ]: categories = data['MapStatId'].unique()
df = []
for category in categories:
    df.append(data[data['MapStatId']==category].drop('MapStatId', axis=1))
df[-1].rename({'Score': category}, axis = 1, inplace = True)
```

```
[ ]: df = pd.concat(df, axis = 1).fillna(0)
df['banner_efficiency'] = df['attack_stars']/df['disobey']
```

### 1.3 Guild Performance

```
[ ]: print(df)
```

	attack_stars	disobey	set_defense_stars	stars	\
Name					
Exeel	275.0	16	158	433	
Agave	241.0	14	342	583	
JustinAlexander11	236.0	14	120	356	
Plucky Haydon	215.0	12	94	309	
Argarax	203.0	17	244	447	
Tommyboy85	194.0	12	278	472	
OttoVonGens	176.0	10	184	360	
Gryphix	174.0	10	188	362	
ShootMeow	165.0	9	248	413	
Loadage	156.0	11	278	434	

wamakima5004	153.0	11	98	251
Flywire	150.0	10	214	364
TacoPizza	137.0	8	154	291
Chaunce	135.0	7	218	353
Revanche Gilder	134.0	8	214	348
Wolfman314	123.0	6	214	337
MINI Stewabob	119.0	6	150	269
MarkKenoburger	116.0	8	180	296
JamesBond007	112.0	6	240	352
Elros Halfelven	111.0	7	124	235
joker	111.0	7	150	261
Sultan2309	105.0	8	184	289
Dark Penguin	103.0	6	158	261
Larping Soccer Moms	99.0	5	124	223
MINI xipokemastrix	97.0	6	184	281
Philo Beddoe	96.0	6	34	130
Promethean	94.0	5	218	312
AKB	92.0	7	338	430
Calens	79.0	6	180	259
M1TTH	79.0	6	154	233
Zhil Axflow	79.0	6	188	267
Baxston Kane	77.0	4	278	355
Wil043	70.0	6	90	160
Theflavorgreen	63.0	6	154	217
SloppySaberFlavor	59.0	3	154	213
Masajj Vemtits	58.0	4	214	272
Heywood Jablowme	56.0	3	278	334
BabyYodaHitta	53.0	5	60	113
ONE	53.0	7	154	207
Tel Nadda	40.0	4	128	168
Maxaron Lexilon	38.0	2	124	162
EvilCoyote2011	16.0	1	214	230
Guntha Arbos	0.0	2	308	308

#### banner\_efficiency

Name	
Exeel	17.187500
Agave	17.214286
JustinAlexander11	16.857143
Plucky Haydon	17.916667
Argarax	11.941176
Tommyboy85	16.166667
OttoVonGens	17.600000
Gryphix	17.400000
ShootMeow	18.333333
Loadage	14.181818
wamakima5004	13.909091
Flywire	15.000000

TacoPizza	17.125000
Chaunce	19.285714
Revanche Gilder	16.750000
Wolfman314	20.500000
MINI Stewabob	19.833333
MarkKenoburger	14.500000
JamesBond007	18.666667
Elros Halfelven	15.857143
joker	15.857143
Sultan2309	13.125000
Dark Penguin	17.166667
Larping Soccer Moms	19.800000
MINI xipokemastrix	16.166667
Philo Beddoe	16.000000
Promethean	18.800000
AKB	13.142857
Calens	13.166667
M1TTH	13.166667
Zhil Axflow	13.166667
Baxston Kane	19.250000
Wil043	11.666667
Theflavorgreen	10.500000
SloppySaberFlavor	19.666667
Masajj Vemtits	14.500000
Heywood Jablowme	18.666667
BabyYodaHitta	10.600000
ONE	7.571429
Tel Nadda	10.000000
Maxaron Lexilon	19.000000
EvilCoyote2011	16.000000
Guntha Arbos	0.000000

#### 1.4 Lowest 10 Defensive Banners

```
[ ]: n = 10
      print(df['set_defense_stars'].sort_values().head(n))
```

Name	
Philo Beddoe	34
BabyYodaHitta	60
Wil043	90
Plucky Haydon	94
wamakima5004	98
JustinAlexander11	120
Maxaron Lexilon	124
Elros Halfelven	124
Larping Soccer Moms	124
Tel Nadda	128

Name: set\_defense\_stars, dtype: int64

## 1.5 Lowest 10 Banner Efficiency

```
[ ]: print(df['banner_efficiency'].sort_values().head(n))
```

Name	
Guntha Arbos	0.000000
ONE	7.571429
Tel Nadda	10.000000
Theflavorgreen	10.500000
BabyYodaHitta	10.600000
Wil043	11.666667
Argarax	11.941176
Sultan2309	13.125000
AKB	13.142857
M1TTH	13.166667

Name: banner\_efficiency, dtype: float64

## 1.6 Top 10 Defensive Banners

```
[ ]: print(df['set_defense_stars'].sort_values(ascending = False).head(n))
```

Name	
Agave	342
AKB	338
Guntha Arbos	308
Tommyboy85	278
Loadage	278
Baxston Kane	278
Heywood Jablowme	278
ShootMeow	248
Argarax	244
JamesBond007	240

Name: set\_defense\_stars, dtype: int64

## 1.7 Top 10 Banner Efficiency

```
[ ]: print(df['banner_efficiency'].sort_values(ascending = False).head(n))
```

Name	
Wolfman314	20.500000
MINI Stewabob	19.833333
Larping Soccer Moms	19.800000
SloppySaberFlavor	19.666667
Chaunce	19.285714
Baxston Kane	19.250000
Maxaron Lexilon	19.000000
Promethean	18.800000

```
Heywood Jablowme      18.666667
JamesBond007           18.666667
Name: banner_efficiency, dtype: float64
```