

# December TW 2 Report

December 6, 2021

## 1 GSF Sigma December 2021 TW 1 Report

### 1.1 Load Data

```
[ ]: import pandas as pd
import glob
import os

# give path to your desired file path
all_files = glob.glob('*_TW_*.csv')
file_path = max(all_files, key=os.path.getctime)
print(file_path)

data = pd.read_csv(file_path)
data[data.columns[0].split(',')] = data.iloc[:, 0].str.split(',', expand=True)
data.drop(data.columns[0], axis=1, inplace=True)
data = data.drop(['Instance', 'AllyCode', 'DiscordTag', 'CurrentRoundEndTime'],
→axis = 1)
data = data.set_index('Name')
```

Dec\_TW\_2.csv

### 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]['Score'] = pd.to_numeric(df[-1]['Score'])
    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	401.0	23.0	248.0	649
ShootMeow	382.0	19.0	248.0	630
AKB	269.0	17.0	308.0	577
Tommyboy85	256.0	16.0	248.0	504
Plucky Haydon	224.0	13.0	274.0	498
JamesBond007	219.0	10.0	30.0	249
Agave	218.0	13.0	342.0	560
Loadage	176.0	11.0	312.0	488
Sultan2309	154.0	9.0	184.0	338
xIPokemastrix	153.0	11.0	432.0	585
ONE	150.0	11.0	154.0	304
Revanche Gilder	144.0	8.0	210.0	354
MarkKenoburger	142.0	7.0	180.0	322
Masajj Vemtits	142.0	7.0	214.0	356
Guntha Arbos	125.0	9.0	248.0	373
Promethean	122.0	6.0	248.0	370
Philo Beddoe	120.0	7.0	154.0	274
MINI Stewabob	118.0	6.0	150.0	268
MINI xipokemastrix	117.0	7.0	184.0	301
Larping Soccer Moms	113.0	6.0	124.0	237
Theflavorgreen	113.0	6.0	154.0	267
Wolfman314	105.0	5.0	154.0	259
Flywire	103.0	7.0	244.0	347
Calens	100.0	7.0	30.0	130
Baxston Kane	97.0	5.0	248.0	345
OttoVonGens	94.0	6.0	218.0	312
Gryphix	80.0	4.0	218.0	298
TacoPizza	80.0	4.0	150.0	230
Dark Penguin	60.0	3.0	34.0	94
ilekkund	60.0	3.0	192.0	252
Wil043	59.0	3.0	120.0	179
Zlada14	59.0	3.0	0.0	59
Heywood Jablowme	58.0	4.0	214.0	272
joker	57.0	5.0	248.0	305
Tel Nadda	55.0	3.0	94.0	149
JustinAlexander11	40.0	2.0	90.0	130
BabyYodaHitta	38.0	3.0	120.0	158
Argarax	36.0	2.0	274.0	310
SloppySaberFlavor	22.0	1.0	184.0	206
ilekkund2	17.0	1.0	128.0	145
Chaunce	0.0	0.0	248.0	248
wamakima5004	0.0	0.0	154.0	154

#### banner\_efficiency

Name	
Exeel	17.434783

ShootMeow	20.105263
AKB	15.823529
Tommyboy85	16.000000
Plucky Haydon	17.230769
JamesBond007	21.900000
Agave	16.769231
Loadage	16.000000
Sultan2309	17.111111
xIPokemastrix	13.909091
ONE	13.636364
Revanche Gilder	18.000000
MarkKenoburger	20.285714
Masajj Vemtits	20.285714
Guntha Arbos	13.888889
Promethean	20.333333
Philo Beddoe	17.142857
MINI Stewabob	19.666667
MINI xipokemastrix	16.714286
Larping Soccer Moms	18.833333
Theflavorgreen	18.833333
Wolfman314	21.000000
Flywire	14.714286
Calens	14.285714
Baxston Kane	19.400000
OttoVonGens	15.666667
Gryphix	20.000000
TacoPizza	20.000000
Dark Penguin	20.000000
ilekkund	20.000000
Wil043	19.666667
Zlada14	19.666667
Heywood Jablowme	14.500000
joker	11.400000
Tel Nadda	18.333333
JustinAlexander11	20.000000
BabyYodaHitta	12.666667
Argarax	18.000000
SloppySaberFlavor	22.000000
ilekkund2	17.000000
Chaunce	NaN
wamakima5004	NaN

#### 1.4 Lowest 10 Defensive Banners

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

Name

Zlada14	0.0
JamesBond007	30.0
Calens	30.0
Dark Penguin	34.0
JustinAlexander11	90.0
Tel Nadda	94.0
BabyYodaHitta	120.0
Wil043	120.0
Larping Soccer Moms	124.0
ilekkund2	128.0

Name: set\_defense\_stars, dtype: float64

### 1.5 Lowest 10 Banner Efficiency

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

Name	
joker	11.400000
BabyYodaHitta	12.666667
ONE	13.636364
Guntha Arbos	13.888889
xIPokemastrIx	13.909091
Calens	14.285714
Heywood Jablowme	14.500000
Flywire	14.714286
OttoVonGens	15.666667
AKB	15.823529

Name: banner\_efficiency, dtype: float64

### 1.6 Top 10 Defensive Banners

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

Name	
xIPokemastrIx	432.0
Agave	342.0
Loadage	312.0
AKB	308.0
Plucky Haydon	274.0
Argarax	274.0
Exeel	248.0
Guntha Arbos	248.0
ShootMeow	248.0
joker	248.0

Name: set\_defense\_stars, dtype: float64

## 1.7 Top 10 Banner Efficiency

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

```
Name
SloppySaberFlavor    22.000000
JamesBond007         21.900000
Wolfman314           21.000000
Promethean           20.333333
Masajj Vemtits       20.285714
MarkKenoburger       20.285714
ShootMeow            20.105263
Gryphix              20.000000
TacoPizza            20.000000
Dark Penguin         20.000000
Name: banner_efficiency, dtype: float64
```