

README

December 8, 2019

1 MI Representative Staff Disbursements

Comparison of all 14 MI House Representative disbursements to representative staffers from FEC funds.

2 Nature of the Review

Rep. Huizenga's campaign committee, Huizenga for Congress ("Campaign Committee"), may have accepted contributions from individuals employed in Rep. Huizenga's congressional office. If Rep. Huizenga failed to ensure that his campaign committee complied with applicable rules, regarding contributions from congressional employees, then he may have violated House rules, standards of conduct, and federal law.

The Campaign Committee reported campaign disbursements that may not be legitimate and verifiable campaign expenditures attributable to bona fide campaign or political purposes. If Rep. Huizenga converted campaign funds from the Campaign Committee to personal use, or if Rep. Huizenga's Campaign Committee expended funds that were not attributable to bona fide campaign or political purposes, then Rep. Huizenga may have violated House rules, standards of conduct, and federal law.

OCE Recommendation

The Board recommended that the Committee further review the above allegation concerning Rep. Huizenga because there is substantial reason to believe that Rep. Huizenga's Campaign Committee accepted contributions from individuals employed in Rep. Huizenga's congressional office.

The Board recommended that the Committee further review the above allegation concerning Rep. Huizenga because there is substantial reason to believe that Rep. Huizenga's Campaign Committee reported campaign disbursements that were not legitimate and verifiable campaign expenditures attributable to bona fide campaign or political purposes.

Source: [OCE Referral Regarding Rep. Bill Huizenga, Nov 14, 2019](#)

2.0.1 Source Data:

1. [FEC Disbursement Database](#)

2. Staff Listings:

- Jack Bergman (MI-1) Staff
- Bill Huizenga (MI-2) Staff
- Justin Amash (MI-3) Staff
- John Moolenaar (MI-4) Staff
- Dan Kildee (MI-5) Staff
- Fred Upton (MI-6) Staff
- Tim Walberg (MI-7) Staff
- Elissa Slotkin (MI-8) Staff
- Andy Levin (MI-9) Staff
- Paul Mitchell (MI-10) Staff
- Haley Stevens (MI-11) Staff
- Debbie Dingell (MI-12) Staff
- Rashida Tlaib (MI-13) Staff
- Brenda Lawrence (MI-14) Staff

2.0.2 Corrections / Issues.

Please open a ticket for any issues, errors, or omissions

2.1 Data Analysis Setup.

```
[1]: %matplotlib inline
      from __init__ import *
      from lookup import Congressman
```

Generate pretty plots for printing.

```
[2]: # https://stackoverflow.com/questions/332289/
      ↪how-do-you-change-the-size-of-figures-drawn-with-matplotlib#comment87590438\_41717533
      sns.set(
          rc={
              "axes.labelsize": 12,
              "axes.titlesize": 18,
              "figure.figsize": (11, 8.5),
              "figure.dpi": 300,
              "figure.facecolor": "w",
              "figure.edgecolor": "k",
          }
      )
```

Read all of the Michigan disbursement data & reps data.

```
[3]: df = pd.read_csv(
      filepath_or_buffer="mi_rep_all_disbursement_data.csv.gz",
      compression="gzip",
```

```

        header=0,
    )
    # Load all representative data.
    reps = lookup.savepoint()
    # Get MI Reps.
    mi = [rep for rep in reps if rep.state_abbr == "MI"]
    mi_reps = [rep for rep in mi if rep.house]
    mi_senate = [rep for rep in mi if rep.senate]

```

3 Find all Campaign Staff Disbursements

Look through each Michigan rep and their staffers and find disbursements.

```

[4]: df2=pd.DataFrame()
    for rep in mi_reps:
        for staffer in rep.staffers2.keys():
            staffer_name = HumanName(staffers)
            df_ = df[
                df.recipient_name.str.contains(",") &
                df.recipient_name.str.contains(staffers_name.first.upper()) &
                df.recipient_name.str.contains(staffers_name.last.upper()) &
                df.committee_name.str.contains(rep.last_name.upper())
            ]
            # If the staffer recieved any disbursements.
            if len(df_)>0:
                # Get the total and round to cents. Otherwise floating point
                ↪numbers do weird things.
                total = np.round(df_.disbursement_amount.sum(), 2)
                print(f"{rep.state_abbr}-{rep.district}\t{rep.name}:
                ↪{staffer_name}, {len(df_)} disbursements: ${total}")
                df2 = df2.append(
                    other=df_,
                    verify_integrity=True,
                )
    df2.reset_index(inplace=True)

```

```

MI-1    Jack Bergman: Amelia Burns, 24 disbursements: $20437.85
MI-2    Bill Huizenga: Jon DeWitte, 20 disbursements: $63183.79
MI-2    Bill Huizenga: Palmer Rafferty, 1 disbursements: $201.84
MI-2    Bill Huizenga: Brian Patrick, 82 disbursements: $60439.51
MI-2    Bill Huizenga: Marliss McManus, 17 disbursements: $16006.86
MI-2    Bill Huizenga: Phil Rokus, 2 disbursements: $1747.13
MI-2    Bill Huizenga: Matt Kooiman, 117 disbursements: $67254.43
MI-3    Justin Amash: Poppy Nelson, 20 disbursements: $37685.17
MI-3    Justin Amash: Matt Weibel, 13 disbursements: $40748.25
MI-4    John Moolenaar: David Russell, 2 disbursements: $468.53

```

MI-4 John Moolenaar: Cliff Burdick, 5 disbursements: \$208.73
 MI-4 John Moolenaar: Chris MacArthur, 31 disbursements: \$34539.73
 MI-4 John Moolenaar: Ashton Bortz, 49 disbursements: \$9334.05
 MI-5 Dan Kildee: Mitchell Rivard, 11 disbursements: \$6623.1
 MI-5 Dan Kildee: Ghada Alkiek, 37 disbursements: \$110091.43
 MI-7 Tim Walberg: Stephen Rajzer, 57 disbursements: \$98924.43
 MI-8 Elissa Slotkin: Mela Louise Norman, 44 disbursements: \$109312.41
 MI-8 Elissa Slotkin: Megan Birleson, 4 disbursements: \$2768.6
 MI-8 Elissa Slotkin: Hannah Lindow, 24 disbursements: \$27621.2
 MI-8 Elissa Slotkin: Austin Girelli, 12 disbursements: \$13544.37
 MI-8 Elissa Slotkin: Francesca Caal Skonos, 14 disbursements: \$6948.29
 MI-9 Andy Levin: Abbas Alawieh, 9 disbursements: \$12414.19
 MI-9 Andy Levin: Walt Herzig, 1 disbursements: \$67.96
 MI-11 Haley Stevens: John Martin, 10 disbursements: \$11897.34
 MI-11 Haley Stevens: Blake McCarren, 6 disbursements: \$12203.64
 MI-11 Haley Stevens: Colleen Pobur, 3 disbursements: \$2359.11
 MI-12 Debbie Dingell: Kevin Dollhopf, 7 disbursements: \$1150.1
 MI-12 Debbie Dingell: Kelly Tebay, 1 disbursements: \$407.62
 MI-13 Rashida Tlaib: Ryan Anderson, 14 disbursements: \$34469.04
 MI-13 Rashida Tlaib: Andrew Goddeeris, 23 disbursements: \$94188.11

4 Representative Staffer Disbursements

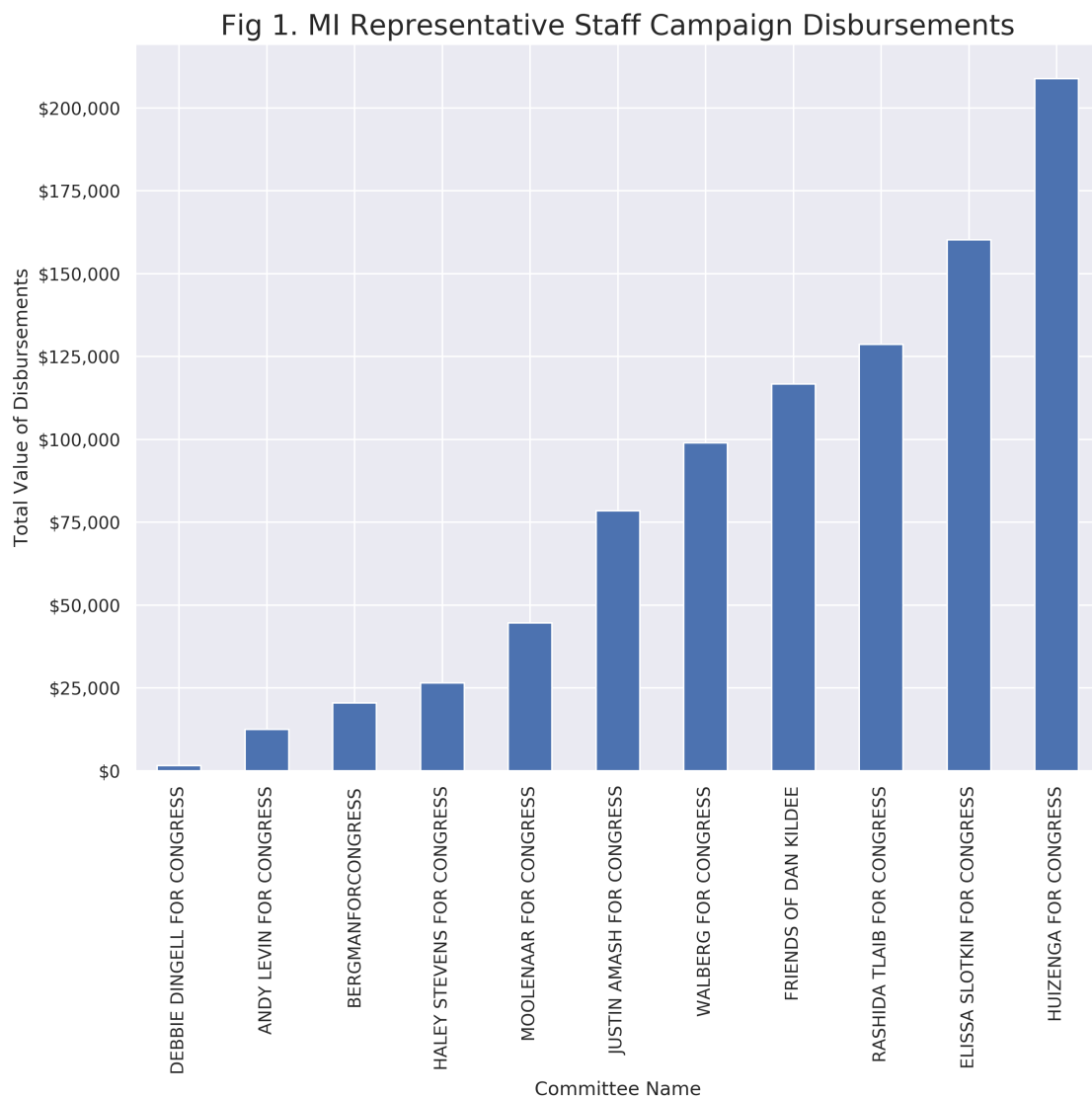
Count and Sum total of disbursements to representative staffers. Sorted by disbursement sum.

```
[5]: _ = df2.groupby("committee_name").agg({"disbursement_amount": ["count", "sum"]})
     _ .columns = ["_".join(x) for x in _ .columns.ravel()]
     _ .columns=[c.replace("_amount", "") for c in _ .columns]
     _ .sort_values(by=["disbursement_sum"], inplace=True)
     -
```

```
[5]:
```

	disbursement_count	disbursement_sum
committee_name		
DEBBIE DINGELL FOR CONGRESS	8	1557.72
ANDY LEVIN FOR CONGRESS	10	12482.15
BERGMANFORCONGRESS	24	20437.85
HALEY STEVENS FOR CONGRESS	19	26460.09
MOOLENAAR FOR CONGRESS	87	44551.04
JUSTIN AMASH FOR CONGRESS	33	78433.42
WALBERG FOR CONGRESS	57	98924.43
FRIENDS OF DAN KILDEE	48	116714.53
RASHIDA TLAIB FOR CONGRESS	37	128657.15
ELISSA SLOTKIN FOR CONGRESS	98	160194.87
HUIZENGA FOR CONGRESS	239	208833.56

```
[6]: ax = _["disbursement_sum"].plot(kind='bar')
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no=1
title = f"Fig {fig_no}. MI Representative Staff Campaign Disbursements"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```



4.1 Staffer Disbursements Grouped by Committee Name.

```
[7]: _ = df2.groupby(['committee_name', 'recipient_name']).agg({"disbursement_amount":
    ↳ ["count", "sum"]})
    _ .columns = ["_".join(x) for x in _ .columns.ravel()]
    _ .columns=[c.replace("_amount", "") for c in _ .columns]
    -
```

```
[7]:
```

committee_name	recipient_name	disbursement_count \
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	9
	HERZIG, WALTER C.	1
BERGMANFORCONGRESS	BURNS, AMELIA	24
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	7
	TEBAY, KELLY	1
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	4
	CAALSKONOS, FRANCESCA	14
	GIRELLI, AUSTIN	12
	LINDOW, HANNAH	24
	NORMAN, MELA LOUISE	44
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	37
	RIVARD, MITCHELL	11
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	10
	MCCARREN, BLAKE	6
	POBUR, COLLEEN	3
HUIZENGA FOR CONGRESS	BROWDER MCMANUS, MARLISS	2
	DEWITTE, JON	7
	DEWITTE, JON MR.	13
	KOOIMAN, MATT	106
	KOOIMAN, MATT MR.	4
	KOOIMAN-, MATT	7
	MCMANUS, MARLISS	15
	PATRICK, BRIAN	71
	PATRICK-, BRIAN	11
	RAFFERTY, PALMER	1
	ROKUS, PHILIP	2
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	20
	WEIBEL, MATTHEW	13
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	3
	BORTZ, ASHTON M. MS.	6
	BORTZ, ASHTON MS.	40
	BURDICK, CLIFF	5
	MACARTHUR, CHRISTOPHER	31
	RUSSELL, DAVID MR.	2
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	14
	GODDEERIS, ANDREW	23
WALBERG FOR CONGRESS	RAJZER, STEPHEN	54

committee_name	recipient_name	disbursement_sum
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	12414.19
	HERZIG, WALTER C.	67.96
BERGMANFORCONGRESS	BURNS, AMELIA	20437.85
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	1150.10
	TEBAY, KELLY	407.62
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	2768.60
	CAALSKONOS, FRANCESCA	6948.29
	GIRELLI, AUSTIN	13544.37
	LINDOW, HANNAH	27621.20
	NORMAN, MELA LOUISE	109312.41
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	110091.43
	RIVARD, MITCHELL	6623.10
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	11897.34
	MCCARREN, BLAKE	12203.64
	POBUR, COLLEEN	2359.11
HUIZENGA FOR CONGRESS	BROWDER MCMANUS, MARLISS	488.37
	DEWITTE, JON	18653.56
	DEWITTE, JON MR.	44530.23
	KOOIMAN, MATT	62553.90
	KOOIMAN, MATT MR.	1353.32
	KOOIMAN-, MATT	3347.21
	MCMANUS, MARLISS	15518.49
	PATRICK, BRIAN	55176.50
	PATRICK-, BRIAN	5263.01
	RAFFERTY, PALMER	201.84
	ROKUS, PHILIP	1747.13
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	37685.17
	WEIBEL, MATTHEW	40748.25
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	1163.25
	BORTZ, ASHTON M. MS.	978.00
	BORTZ, ASHTON MS.	7192.80
	BURDICK, CLIFF	208.73
	MACARTHUR, CHRISTOPHER	34539.73
	RUSSELL, DAVID MR.	468.53
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	34469.04
	GODDEERIS, ANDREW	94188.11
WALBERG FOR CONGRESS	RAJZER, STEPHEN	98567.78
	RAJZER, STEPHEN MR	356.65

4.2 [Name Normalization Sidebar]

Before further analysis, normalize the recipient names.

For what ever reason, Huizenga has the most 'variety' in recipient names. Making it annoying to aggregate results.

For example:

```
DEWITTE, JON                18653.56
DEWITTE, JON MR.           44530.23
```

"Mr." splits Jon's disbursements into two. Hanlon's razor?

```
[8]: def norm_name(recipient_name):
      # Normalize dashes added to Brian Patrick & Matt Kooiman's names.
      recipient_name = recipient_name.replace("-", "")
      # Normalize MCMANUS, MARLISS's married name.
      recipient_name = recipient_name.replace("BROWDER ", "")
      # Use HumanName to strip out titles.
      hn = HumanName(recipient_name)
      return f'{hn["last"]}, {hn["first"]}'
      df2["recipient"] = df2.recipient_name.apply(norm_name)
```

4.3 Staffer Disbursements Grouped by Committee Name, Deux

```
[9]: _ = df2.groupby(["committee_name", "recipient"]).agg({"disbursement_amount":_
↳ ["count", "sum"]})
     _ .columns = ["_".join(x) for x in _ .columns.ravel()]
     _ .columns=[c.replace("_amount", "") for c in _ .columns]
     -
```

```
[9]:
```

committee_name	recipient	disbursement_count \
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	9
	HERZIG, WALTER	1
BERGMANFORCONGRESS	BURNS, AMELIA	24
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	7
	TEBAY, KELLY	1
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	4
	CAALSKONOS, FRANCESCA	14
	GIRELLI, AUSTIN	12
	LINDOW, HANNAH	24
	NORMAN, MELA	44
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	37
	RIVARD, MITCHELL	11
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	10
	MCCARREN, BLAKE	6
	POBUR, COLLEEN	3
HUIZENGA FOR CONGRESS	DEWITTE, JON	20
	KOOIMAN, MATT	117

	MCMANUS, MARLISS	17
	PATRICK, BRIAN	82
	RAFFERTY, PALMER	1
	ROKUS, PHILIP	2
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	20
	WEIBEL, MATTHEW	13
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	49
	BURDICK, CLIFF	5
	MACARTHUR, CHRISTOPHER	31
	RUSSELL, DAVID	2
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	14
	GODDEERIS, ANDREW	23
WALBERG FOR CONGRESS	RAJZER, STEPHEN	57

committee_name	recipient	disbursement_sum
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	12414.19
	HERZIG, WALTER	67.96
BERGMANFORCONGRESS	BURNS, AMELIA	20437.85
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	1150.10
	TEBAY, KELLY	407.62
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	2768.60
	CAALSKONOS, FRANCESCA	6948.29
	GIRELLI, AUSTIN	13544.37
	LINDOW, HANNAH	27621.20
	NORMAN, MELA	109312.41
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	110091.43
	RIVARD, MITCHELL	6623.10
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	11897.34
	MCCARREN, BLAKE	12203.64
	POBUR, COLLEEN	2359.11
HUIZENGA FOR CONGRESS	DEWITTE, JON	63183.79
	KOOIMAN, MATT	67254.43
	MCMANUS, MARLISS	16006.86
	PATRICK, BRIAN	60439.51
	RAFFERTY, PALMER	201.84
	ROKUS, PHILIP	1747.13
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	37685.17
	WEIBEL, MATTHEW	40748.25
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	9334.05
	BURDICK, CLIFF	208.73
	MACARTHUR, CHRISTOPHER	34539.73
	RUSSELL, DAVID	468.53
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	34469.04
	GODDEERIS, ANDREW	94188.11
WALBERG FOR CONGRESS	RAJZER, STEPHEN	98924.43

4.4 Staffer Disbursements Sorted by Number of Disbursements.

```
[10]: _.sort_values(by=["disbursement_count"])
```

```
[10]:
```

committee_name	recipient	disbursement_count \
ANDY LEVIN FOR CONGRESS	HERZIG, WALTER	1
DEBBIE DINGELL FOR CONGRESS	TEBAY, KELLY	1
HUIZENGA FOR CONGRESS	RAFFERTY, PALMER	1
MOOLENAAR FOR CONGRESS	RUSSELL, DAVID	2
HUIZENGA FOR CONGRESS	ROKUS, PHILIP	2
HALEY STEVENS FOR CONGRESS	POBUR, COLLEEN	3
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	4
MOOLENAAR FOR CONGRESS	BURDICK, CLIFF	5
HALEY STEVENS FOR CONGRESS	MCCARREN, BLAKE	6
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	7
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	9
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	10
FRIENDS OF DAN KILDEE	RIVARD, MITCHELL	11
ELISSA SLOTKIN FOR CONGRESS	GIRELLI, AUSTIN	12
JUSTIN AMASH FOR CONGRESS	WEIBEL, MATTHEW	13
ELISSA SLOTKIN FOR CONGRESS	CAALSKONOS, FRANCESCA	14
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	14
HUIZENGA FOR CONGRESS	MCMANUS, MARLISS	17
	DEWITTE, JON	20
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	20
RASHIDA TLAIB FOR CONGRESS	GODDEERIS, ANDREW	23
ELISSA SLOTKIN FOR CONGRESS	LINDOW, HANNAH	24
BERGMANFORCONGRESS	BURNS, AMELIA	24
MOOLENAAR FOR CONGRESS	MACARTHUR, CHRISTOPHER	31
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	37
ELISSA SLOTKIN FOR CONGRESS	NORMAN, MELA	44
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	49
WALBERG FOR CONGRESS	RAJZER, STEPHEN	57
HUIZENGA FOR CONGRESS	PATRICK, BRIAN	82
	KOOIMAN, MATT	117

committee_name	recipient	disbursement_sum
ANDY LEVIN FOR CONGRESS	HERZIG, WALTER	67.96
DEBBIE DINGELL FOR CONGRESS	TEBAY, KELLY	407.62
HUIZENGA FOR CONGRESS	RAFFERTY, PALMER	201.84
MOOLENAAR FOR CONGRESS	RUSSELL, DAVID	468.53
HUIZENGA FOR CONGRESS	ROKUS, PHILIP	1747.13
HALEY STEVENS FOR CONGRESS	POBUR, COLLEEN	2359.11
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	2768.60
MOOLENAAR FOR CONGRESS	BURDICK, CLIFF	208.73

HALEY STEVENS FOR CONGRESS	MCCARREN, BLAKE	12203.64
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	1150.10
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	12414.19
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	11897.34
FRIENDS OF DAN KILDEE	RIVARD, MITCHELL	6623.10
ELISSA SLOTKIN FOR CONGRESS	GIRELLI, AUSTIN	13544.37
JUSTIN AMASH FOR CONGRESS	WEIBEL, MATTHEW	40748.25
ELISSA SLOTKIN FOR CONGRESS	CAALSKONOS, FRANCESCA	6948.29
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	34469.04
HUIZENGA FOR CONGRESS	MCMANUS, MARLISS	16006.86
	DEWITTE, JON	63183.79
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	37685.17
RASHIDA TLAIB FOR CONGRESS	GODDEERIS, ANDREW	94188.11
ELISSA SLOTKIN FOR CONGRESS	LINDOW, HANNAH	27621.20
BERGMANFORCONGRESS	BURNS, AMELIA	20437.85
MOOLENAAR FOR CONGRESS	MACARTHUR, CHRISTOPHER	34539.73
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	110091.43
ELISSA SLOTKIN FOR CONGRESS	NORMAN, MELA	109312.41
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	9334.05
WALBERG FOR CONGRESS	RAJZER, STEPHEN	98924.43
HUIZENGA FOR CONGRESS	PATRICK, BRIAN	60439.51
	KOOIMAN, MATT	67254.43

4.5 Staffer Disbursements Sorted by Value of Disbursements.

```
[11]: _.sort_values(by=["disbursement_sum"])
```

```
[11]:
```

committee_name	recipient	disbursement_count \
ANDY LEVIN FOR CONGRESS	HERZIG, WALTER	1
HUIZENGA FOR CONGRESS	RAFFERTY, PALMER	1
MOOLENAAR FOR CONGRESS	BURDICK, CLIFF	5
DEBBIE DINGELL FOR CONGRESS	TEBAY, KELLY	1
MOOLENAAR FOR CONGRESS	RUSSELL, DAVID	2
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	7
HUIZENGA FOR CONGRESS	ROKUS, PHILIP	2
HALEY STEVENS FOR CONGRESS	POBUR, COLLEEN	3
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	4
FRIENDS OF DAN KILDEE	RIVARD, MITCHELL	11
ELISSA SLOTKIN FOR CONGRESS	CAALSKONOS, FRANCESCA	14
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	49
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	10
	MCCARREN, BLAKE	6
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	9
ELISSA SLOTKIN FOR CONGRESS	GIRELLI, AUSTIN	12
HUIZENGA FOR CONGRESS	MCMANUS, MARLISS	17

BERGMANFORCONGRESS	BURNS, AMELIA	24
ELISSA SLOTKIN FOR CONGRESS	LINDOW, HANNAH	24
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	14
MOOLENAAR FOR CONGRESS	MACARTHUR, CHRISTOPHER	31
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	20
	WEIBEL, MATTHEW	13
HUIZENGA FOR CONGRESS	PATRICK, BRIAN	82
	DEWITTE, JON	20
	KOOIMAN, MATT	117
RASHIDA TLAIB FOR CONGRESS	GODDEERIS, ANDREW	23
WALBERG FOR CONGRESS	RAJZER, STEPHEN	57
ELISSA SLOTKIN FOR CONGRESS	NORMAN, MELA	44
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	37

committee_name	recipient	disbursement_sum
ANDY LEVIN FOR CONGRESS	HERZIG, WALTER	67.96
HUIZENGA FOR CONGRESS	RAFFERTY, PALMER	201.84
MOOLENAAR FOR CONGRESS	BURDICK, CLIFF	208.73
DEBBIE DINGELL FOR CONGRESS	TEBAY, KELLY	407.62
MOOLENAAR FOR CONGRESS	RUSSELL, DAVID	468.53
DEBBIE DINGELL FOR CONGRESS	DOLLHOPF, KEVIN	1150.10
HUIZENGA FOR CONGRESS	ROKUS, PHILIP	1747.13
HALEY STEVENS FOR CONGRESS	POBUR, COLLEEN	2359.11
ELISSA SLOTKIN FOR CONGRESS	BIRLESON, MEGAN	2768.60
FRIENDS OF DAN KILDEE	RIVARD, MITCHELL	6623.10
ELISSA SLOTKIN FOR CONGRESS	CAALSKONOS, FRANCESCA	6948.29
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	9334.05
HALEY STEVENS FOR CONGRESS	MARTIN, JOHN	11897.34
	MCCARREN, BLAKE	12203.64
ANDY LEVIN FOR CONGRESS	ALAWIEH, ABBAS	12414.19
ELISSA SLOTKIN FOR CONGRESS	GIRELLI, AUSTIN	13544.37
HUIZENGA FOR CONGRESS	MCMANUS, MARLISS	16006.86
BERGMANFORCONGRESS	BURNS, AMELIA	20437.85
ELISSA SLOTKIN FOR CONGRESS	LINDOW, HANNAH	27621.20
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	34469.04
MOOLENAAR FOR CONGRESS	MACARTHUR, CHRISTOPHER	34539.73
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	37685.17
	WEIBEL, MATTHEW	40748.25
HUIZENGA FOR CONGRESS	PATRICK, BRIAN	60439.51
	DEWITTE, JON	63183.79
	KOOIMAN, MATT	67254.43
RASHIDA TLAIB FOR CONGRESS	GODDEERIS, ANDREW	94188.11
WALBERG FOR CONGRESS	RAJZER, STEPHEN	98924.43
ELISSA SLOTKIN FOR CONGRESS	NORMAN, MELA	109312.41
FRIENDS OF DAN KILDEE	ALKIEK, GHADA	110091.43

4.6 Staffer Disbursements Grouped by Committee Name & Disbursement Description

```
[12]: _ = df2.groupby(['committee_name', 'disbursement_description']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      -
```

```
[12]: disbursement_count \
committee_name      disbursement_description
ANDY LEVIN FOR CONGRESS  EVENT SUPPLIES
1
                        OFFICE SUPPLY REIMBURSEMENT
1
                        PAYROLL
8
BERGMANFORCONGRESS      CAMPAIGN CONSULTING
1
                        FIELD CONSULTING
6
                        NO ITEMIZATION NECESSARY
1
                        POSTAGE REIMBURSEMENT
3
                        SEE BELOW
2
                        SEE MEMO ENTRIES
5
                        SEE MEMO ENTRY
4
                        STRATEGY CONSULTING
2
DEBBIE DINGELL FOR CONGRESS REIMBURSEMENT
1
                        TRAVEL REIMBURSEMENT - OFFICIALLY CONNECTED
7
ELISSA SLOTKIN FOR CONGRESS MILEAGE REIMBURSEMENT
6
                        PAYROL
1
                        PAYROLL
83
                        REIMBURSEMENT
4
                        REIMBURSEMENT (VENDORS OVER $200 AGGREGATE BELOW)
2
```

1	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
1	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
FRIENDS OF DAN KILDEE	ADVANCE FOR PURCHASE OF FOOD FOR FUNDRAISER
1	CAR RENTAL
1	CONTRACT CONSULTING
2	CONTRACT PROFESSIONAL SERVICES
1	EXPENSE REIMBURSEMENT
2	FOOD FOR OFFICE OPEN HOUSE
1	FUEL REIMBURSEMENT FOR CAMPAIGN APPEARANCES
1	FUNDRAISER SUPPLIES
1	FUNDRAISING CONSULTING
14	FUNDRAISING EMPLOYEE
1	OFFICE SUPPLY REIMBURSEMENT
1	PAYROLL
15	PAYROLL EXPENSES
1	REFUND FROM ACTBLUE
1	REIMBURSEMENT FOR PRINTING EXPENSE
1	SOCIAL MEDIA CONSULTING
1	SUPPLIES
1	TRAVEL EXPENSE REIMBURSEMENT
2	HALEY STEVENS FOR CONGRESS MILEAGE
1	REIMBURSEMENT - TRAVEL
1	SALARY
16	TRAVEL REIMBURSEMENT, MEMOS BELOW IF ITEMIZED

1	HUIZENGA FOR CONGRESS	ADMINISTRATION SERVICES
5		ADMINISTRATIVE EXPENSE
2		CAMPAIGN BREAKFAST MEETING
1		CAMPAIGN CONSULTANT
51		CAMPAIGN CONSULTING
3		CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
1		CAMPAIGN EXPENSES
5		CONSULTING SERVICES
4		DIRECT MAIL PRINTING
4		EXPENSE REIMBURSEMENT
2		EXPENSES
3		FIELD CONSULTANT
1		FIELD CONSULTING
12		FUNDRAISING CONSULTING
8		LABOR FOR CAMPAIGN WORKER
1		MILEAGE EXPENSE
1		MILEAGE REIMBURSEMENT
66		PERFORMANCE BONUS
1		PHONE EXPENSE
1		REFRESHMENTS FOR CAMPAIGN EVENT
1		REIMBURSEMENT FOR MILEAGE
2		SALARY
5		SALARY FOR CAMPAIGN WORKER
9		

	SEE BELOW
10	
	STRATEGY CONSULTING
11	
	TAXI & FED EX SUPPLIES REIMBUR
1	
	TRAVEL: MILEAGE REIMBURSEMENT
27	
JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE CONSULTING
14	
	ADMINISTRATIVE/STRATEGIC SUPPORT
2	
	ADMINISTRATIVE/STRATEGIC SUPPORT
2	
	REIMBURSEMENT FOR TONER
1	
	SALARY
11	
	TRAVEL
1	
	TRAVEL EXPENSE--SEE MEMO
1	
	TRAVEL EXPENSE-SEE MEMOS
1	
MOOLENAAR FOR CONGRESS	EXPENSE REIMBURSEMENT - ITEMIZED
1	
	MILEAGE
39	
	MILEAGE - EXPENSES ITEMIZED
2	
	MILEAGE REIMBURSEMENT
19	
	MILEAGE, EQUIPMENT - ITEMIZED
1	
	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
3	
	MILEAGE, EXPENSES - ITEMIZED
5	
	SUPPLIES - ITEMIZED
1	
	WAGES
16	
RASHIDA TLAIB FOR CONGRESS	CAMPAIGN FINANCE DIRECTOR PAY 2/12 TO 2/28
1	
	FINANCE DIRECTOR PAY
1	
	FUNDRAISING CONSULTATION

2	OFFICE SUPPLIES
2	REIMBURSEMENT
1	REIMBURSEMENT - CATERING FOR DETROIT RECEPTION
1	REIMBURSEMENT - TRAVEL
1	REIMBURSEMENT FROM TRAVEL
1	REIMBURSEMENT OF TRAVEL EXPENSES
1	RESEARCH
1	SALARY
25	ADMINISTRATIVE/SALARY/OVERHEAD: SALARY
WALBERG FOR CONGRESS	
8	MILEAGE
13	OTHER: REIMBURSEMENT - FOOD/SUPPLIES
1	OTHER: REIMBURSEMENT - INSURANCE
1	OTHER: REIMBURSEMENT - SUPPLIES
6	OTHER: REIMBURSEMENT - SUPPLIES/FOOD
3	OTHER: REIMBURSEMENT - TRAVEL
1	PRE-IMBURSMENT RENTAL
1	REIMBURSEMENT - SUPPLIES, INSURANCE
1	REIMBURSEMENT - SUPPLIES/POSTAGE/INSURANCE
1	SALARY
11	SALARY - BONUS
1	TRAVEL: MILEAGE
9	
disbursement_sum	
committee_name	disbursement_description
ANDY LEVIN FOR CONGRESS	EVENT SUPPLIES

67.96	OFFICE SUPPLY REIMBURSEMENT
212.00	PAYROLL
12202.19	CAMPAIGN CONSULTING
BERGMANFORCONGRESS	
2000.00	FIELD CONSULTING
10095.00	NO ITEMIZATION NECESSARY
120.41	POSTAGE REIMBURSEMENT
179.49	SEE BELOW
1366.79	SEE MEMO ENTRIES
1116.48	SEE MEMO ENTRY
559.68	STRATEGY CONSULTING
5000.00	
DEBBIE DINGELL FOR CONGRESS REIMBURSEMENT	
407.62	TRAVEL REIMBURSEMENT - OFFICIALLY CONNECTED
1150.10	
ELISSA SLOTKIN FOR CONGRESS MILEAGE REIMBURSEMENT	
1086.90	PAYROL
2410.01	PAYROLL
153271.39	REIMBURSEMENT
1749.81	REIMBURSEMENT (VENDORS OVER \$200 AGGREGATE BELOW)
1048.71	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
443.91	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
184.14	
FRIENDS OF DAN KILDEE	ADVANCE FOR PURCHASE OF FOOD FOR FUNDRAISER
434.00	CAR RENTAL
182.38	CONTRACT CONSULTING
3720.00	CONTRACT PROFESSIONAL SERVICES
706.24	

642.66	EXPENSE REIMBURSEMENT
42.47	FOOD FOR OFFICE OPEN HOUSE
181.30	FUEL REIMBURSEMENT FOR CAMPAIGN APPEARANCES
45.96	FUNDRAISER SUPPLIES
39166.00	FUNDRAISING CONSULTING
9841.76	FUNDRAISING EMPLOYEE
219.44	OFFICE SUPPLY REIMBURSEMENT
52892.09	PAYROLL
7381.32	PAYROLL EXPENSES
5.00	REFUND FROM ACTBLUE
81.48	REIMBURSEMENT FOR PRINTING EXPENSE
786.56	SOCIAL MEDIA CONSULTING
23.97	SUPPLIES
361.90	TRAVEL EXPENSE REIMBURSEMENT
HALEY STEVENS FOR CONGRESS	MILEAGE
327.70	REIMBURSEMENT - TRAVEL
1775.56	SALARY
24100.98	TRAVEL REIMBURSEMENT, MEMOS BELOW IF ITEMIZED
255.85	ADMINISTRATION SERVICES
HUIZENGA FOR CONGRESS	ADMINISTRATIVE EXPENSE
2500.00	CAMPAIGN BREAKFAST MEETING
1000.00	CAMPAIGN CONSULTANT
39.47	CAMPAIGN CONSULTING
30837.98	CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
3000.00	

229.71	CAMPAIGN EXPENSES
20675.85	CONSULTING SERVICES
17354.10	DIRECT MAIL PRINTING
4195.00	EXPENSE REIMBURSEMENT
3114.20	EXPENSES
11132.20	FIELD CONSULTANT
500.00	FIELD CONSULTING
9055.00	FUNDRAISING CONSULTING
8966.32	LABOR FOR CAMPAIGN WORKER
750.00	MILEAGE EXPENSE
213.27	MILEAGE REIMBURSEMENT
33288.11	PERFORMANCE BONUS
1000.00	PHONE EXPENSE
85.66	REFRESHMENTS FOR CAMPAIGN EVENT
1100.00	REIMBURSEMENT FOR MILEAGE
454.09	SALARY
5510.60	SALARY FOR CAMPAIGN WORKER
4500.00	SEE BELOW
21454.54	STRATEGY CONSULTING
13750.00	TAXI & FED EX SUPPLIES REIMBUR
259.99	TRAVEL: MILEAGE REIMBURSEMENT
11867.47	ADMINISTRATIVE CONSULTING
JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE/STRATEGIC SUPPORT
43749.66	
3436.03	

2872.06	ADMINISTRATIVE/STRATEGIC SUPPORT
116.58	REIMBURSEMENT FOR TONER
27287.50	SALARY
12.50	TRAVEL
155.09	TRAVEL EXPENSE--SEE MEMO
804.00	TRAVEL EXPENSE-SEE MEMOS
MOOLENAAR FOR CONGRESS	EXPENSE REIMBURSEMENT - ITEMIZED
731.62	MILEAGE
14591.30	MILEAGE - EXPENSES ITEMIZED
712.75	MILEAGE REIMBURSEMENT
5404.05	MILEAGE, EQUIPMENT - ITEMIZED
526.40	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
525.25	MILEAGE, EXPENSES - ITEMIZED
354.82	SUPPLIES - ITEMIZED
149.60	WAGES
21555.25	CAMPAIGN FINANCE DIRECTOR PAY 2/12 TO 2/28
RASHIDA TLAIB FOR CONGRESS	FINANCE DIRECTOR PAY
2550.00	FUNDRAISING CONSULTATION
675.00	OFFICE SUPPLIES
16000.00	REIMBURSEMENT
164.46	REIMBURSEMENT - CATERING FOR DETROIT RECEPTION
1359.35	REIMBURSEMENT - TRAVEL
218.00	REIMBURSEMENT FROM TRAVEL
492.40	REIMBURSEMENT OF TRAVEL EXPENSES
1196.33	

264.11	RESEARCH
5125.00	SALARY
100612.50	ADMINISTRATIVE/SALARY/OVERHEAD: SALARY
WALBERG FOR CONGRESS	
26055.49	MILEAGE
7076.30	OTHER: REIMBURSEMENT - FOOD/SUPPLIES
573.65	OTHER: REIMBURSEMENT - INSURANCE
74.21	OTHER: REIMBURSEMENT - SUPPLIES
1371.93	OTHER: REIMBURSEMENT - SUPPLIES/FOOD
960.58	OTHER: REIMBURSEMENT - TRAVEL
238.71	PRE-IMBURSMENT RENTAL
82.00	REIMBURSEMENT - SUPPLIES, INSURANCE
304.40	REIMBURSEMENT - SUPPLIES/POSTAGE/INSURANCE
214.20	SALARY
53639.06	SALARY - BONUS
5000.00	TRAVEL: MILEAGE
3333.90	

5 Payroll vs Non-Payroll Staff Disbursements

As shown in Fig 1., Huizenga's staff disbursements is inline (but still higher) with disbursements taken by other Michigan representative staffers. However all other campaigns have considerable spending for salary/payroll.

For the purposes of this analysis "Salary" & "Payroll" are synonymous.

```
[13]: # Determine if a disbursement
def ispayroll(disbursement_description):
    if "SALARY" in disbursement_description:
        return "Payroll"
    # Edgecase for a typo.
    if "PAYROL" in disbursement_description:
```

```

        return "Payroll"
    return "Non-Payroll"
# Force disbursement_description to a string.
df2["disbursement_description"] = df2.disbursement_description.apply(str)
# Add payroll column.
df2["payroll"] = df2.disbursement_description.apply(ispayroll)

```

5.1 Payroll vs Non Payroll Staff Disbursements, Grouped by Committee Name

```

[14]: _ = df2.groupby(['committee_name', "payroll"]).agg({"disbursement_amount": [
    ↪ ["count", "sum"]})
_.columns = ["_".join(x) for x in _.columns.ravel()]
_.columns=[c.replace("_amount", "") for c in _.columns]
-

```

```

[14]:

```

committee_name	payroll	disbursement_count	disbursement_sum
ANDY LEVIN FOR CONGRESS	Non-Payroll	2	279.96
	Payroll	8	12202.19
BERGMANFORCONGRESS	Non-Payroll	24	20437.85
DEBBIE DINGELL FOR CONGRESS	Non-Payroll	8	1557.72
ELISSA SLOTKIN FOR CONGRESS	Non-Payroll	14	4513.47
	Payroll	84	155681.40
FRIENDS OF DAN KILDEE	Non-Payroll	32	56441.12
	Payroll	16	60273.41
HALEY STEVENS FOR CONGRESS	Non-Payroll	3	2359.11
	Payroll	16	24100.98
HUIZENGA FOR CONGRESS	Non-Payroll	225	198822.96
	Payroll	14	10010.60
JUSTIN AMASH FOR CONGRESS	Non-Payroll	22	51145.92
	Payroll	11	27287.50
MOOLENAAR FOR CONGRESS	Non-Payroll	87	44551.04
RASHIDA TLAIB FOR CONGRESS	Non-Payroll	12	28044.65
	Payroll	25	100612.50
WALBERG FOR CONGRESS	Non-Payroll	37	14229.88
	Payroll	20	84694.55

```

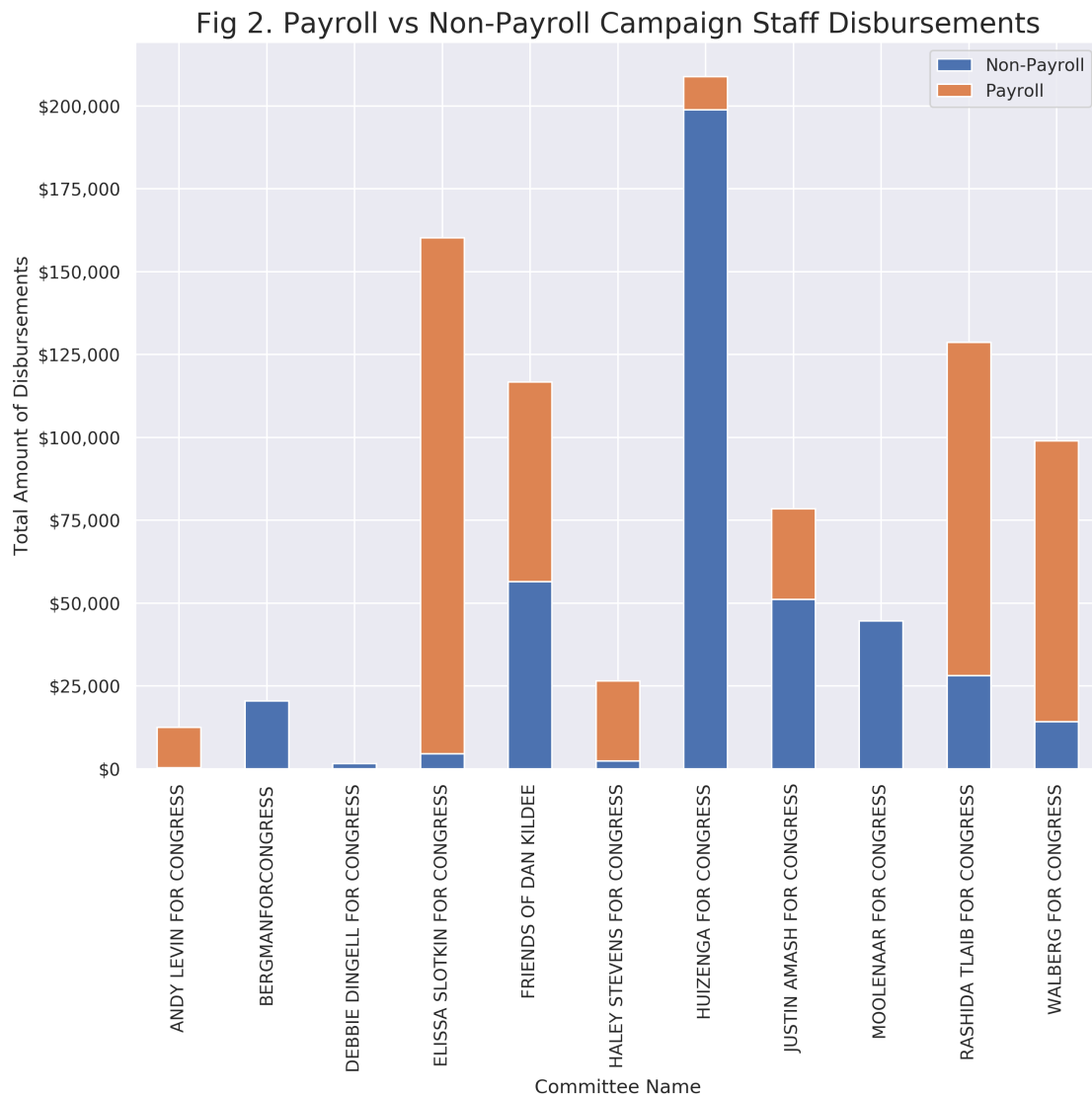
[15]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Amount of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
plt.legend(bbox_to_anchor=(1, 1))
# Title & Save
fig_no+=1

```

```

title = f"Fig {fig_no}. Payroll vs Non-Payroll Campaign Staff Disbursements"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')

```



5.2 Committee Staff Disbursements Grouped by Payroll vs Non-Payroll

```

[16]: _ = df2.groupby(["payroll", 'committee_name']).agg({"disbursement_amount":_
    ↳ ["count", "sum"]})
_.columns = ["_".join(x) for x in _.columns.ravel()]
_.columns=[c.replace("_amount", "") for c in _.columns]
_.sort_values(by=["payroll", "disbursement_sum"], inplace=True)

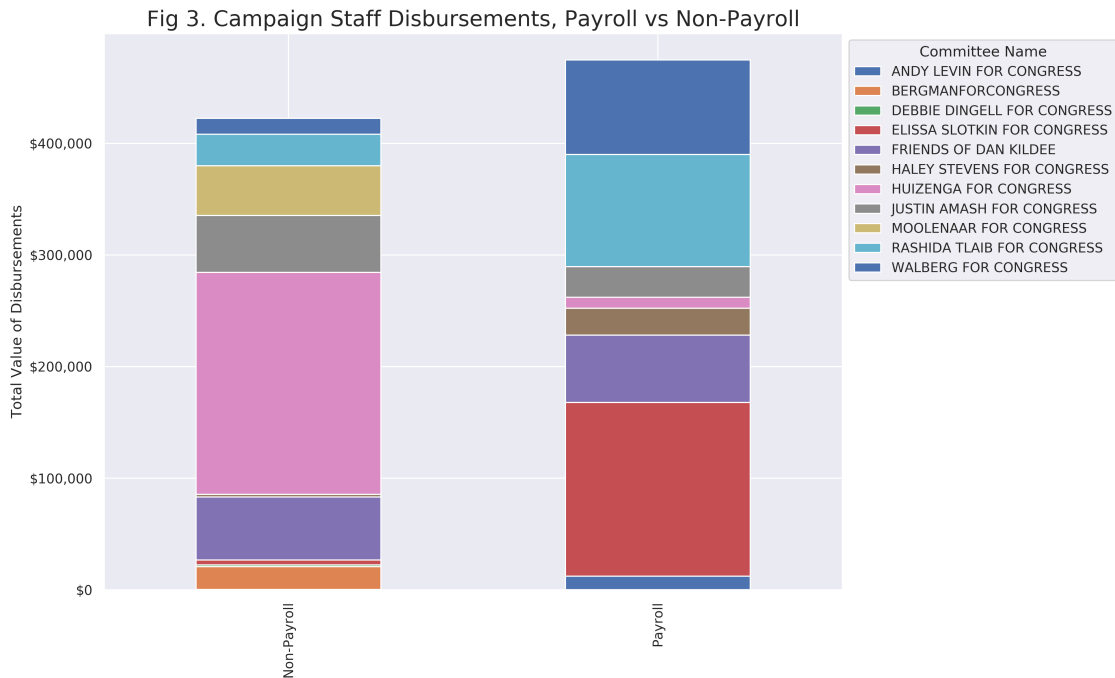
```


-

```
[16]:
```

		disbursement_count	disbursement_sum
payroll	committee_name		
Non-Payroll	ANDY LEVIN FOR CONGRESS	2	279.96
	DEBBIE DINGELL FOR CONGRESS	8	1557.72
	HALEY STEVENS FOR CONGRESS	3	2359.11
	ELISSA SLOTKIN FOR CONGRESS	14	4513.47
	WALBERG FOR CONGRESS	37	14229.88
	BERGMANFORCONGRESS	24	20437.85
	RASHIDA TLAIB FOR CONGRESS	12	28044.65
	MOOLENAAR FOR CONGRESS	87	44551.04
	JUSTIN AMASH FOR CONGRESS	22	51145.92
	FRIENDS OF DAN KILDEE	32	56441.12
	HUIZENGA FOR CONGRESS	225	198822.96
Payroll	HUIZENGA FOR CONGRESS	14	10010.60
	ANDY LEVIN FOR CONGRESS	8	12202.19
	HALEY STEVENS FOR CONGRESS	16	24100.98
	JUSTIN AMASH FOR CONGRESS	11	27287.50
	FRIENDS OF DAN KILDEE	16	60273.41
	WALBERG FOR CONGRESS	20	84694.55
	RASHIDA TLAIB FOR CONGRESS	25	100612.50
	ELISSA SLOTKIN FOR CONGRESS	84	155681.40

```
[17]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Campaign Staff Disbursements, Payroll vs Non-Payroll"
plt.title(title)
plt.legend(title="Committee Name", loc='bottom left', bbox_to_anchor=(1.0, 1))
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```



6 Non-Payroll Disbursements

Looking into just disbursements made to legislative staff that were **not** for payroll purposes.

Review No. 19-2187:

II: REP. HUIZENGA’S CAMPAIGN COMMITTEE MAY HAVE ACCEPTED CONTRIBUTIONS FROM CONGRESSIONAL STAFFERS > A. Applicable Law, Rules, and Standards of Conduct >> 16. House Ethics Manual >>> “The definition of the term contribution in the FECA is quite detailed . . . [U]nder **FEC regulations, most outlays that an individual makes on behalf of a campaign are deemed to be a contribution to that campaign from that individual. This is so even if it is intended that the campaign will reimburse the individual promptly.** The major exception to this rule is for outlays that an individual makes to cover expenses that he or she incurs in traveling on behalf of a campaign.” 10 Assuming certain travel outlays are reimbursed within specified time periods, they will not be considered “contributions.”

6.1 Non-Payroll Disbursements by Committee.

Sorted by disbursement total.

[18] :

```

non_payroll_df = df2[df2.payroll == "Non-Payroll"]
_ = non_payroll_df.groupby(['committee_name']).agg({"disbursement_amount":_
↳ ["count", "sum"]})
_.columns = ["_".join(x) for x in _.columns.ravel()]
_.columns=[c.replace("_amount", "") for c in _.columns]
_.sort_values(by="disbursement_sum", inplace=True)
-

```

```

[18]:

```

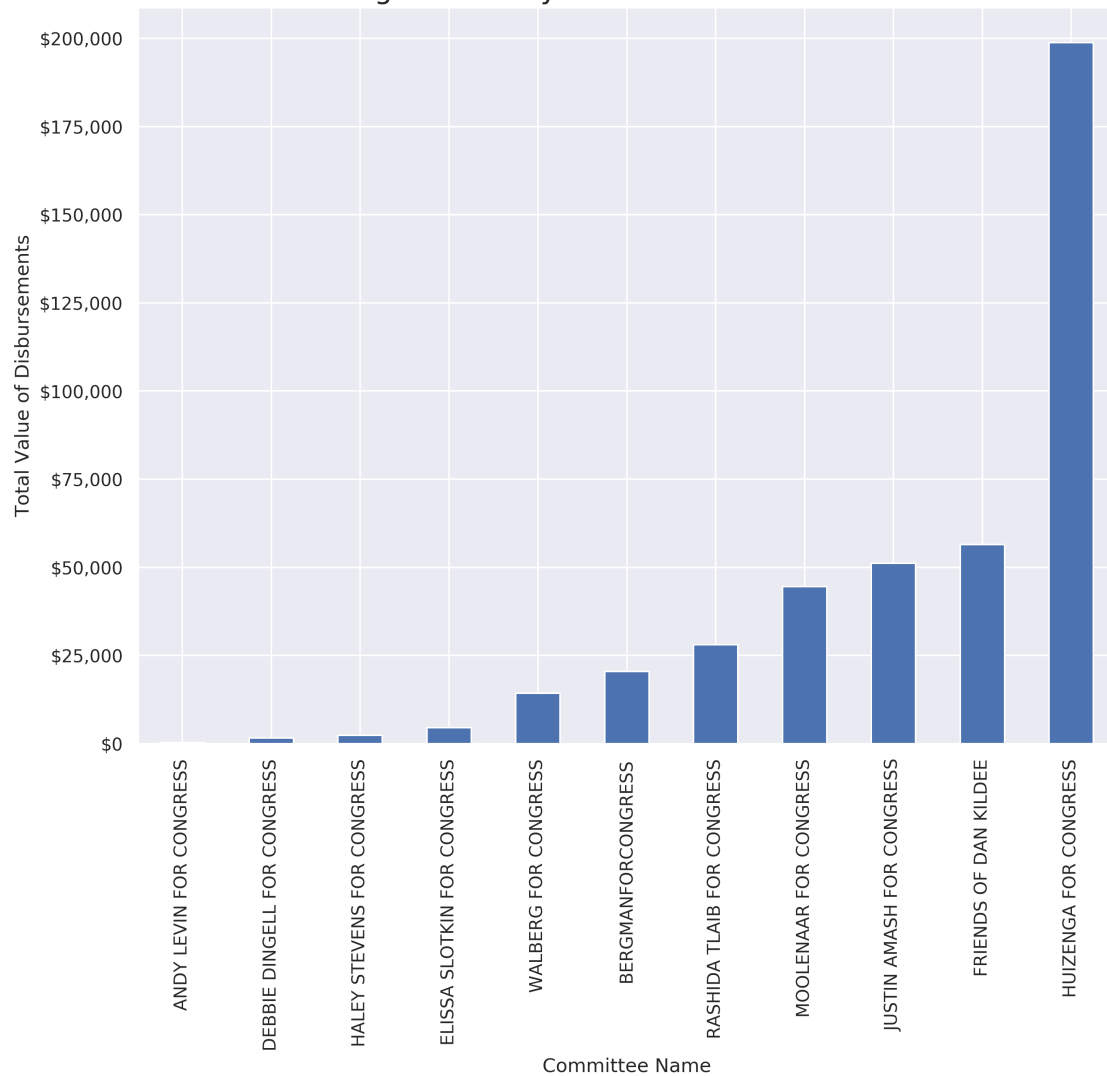
committee_name	disbursement_count	disbursement_sum
ANDY LEVIN FOR CONGRESS	2	279.96
DEBBIE DINGELL FOR CONGRESS	8	1557.72
HALEY STEVENS FOR CONGRESS	3	2359.11
ELISSA SLOTKIN FOR CONGRESS	14	4513.47
WALBERG FOR CONGRESS	37	14229.88
BERGMANFORCONGRESS	24	20437.85
RASHIDA TLAIB FOR CONGRESS	12	28044.65
MOOLENAAR FOR CONGRESS	87	44551.04
JUSTIN AMASH FOR CONGRESS	22	51145.92
FRIENDS OF DAN KILDEE	32	56441.12
HUIZENGA FOR CONGRESS	225	198822.96

```

[19]: ax = _["disbursement_sum"].plot(kind="bar")
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Non-Payroll Staff Disbursements"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')

```

Fig 4. Non-Payroll Staff Disbursements



6.2 Non-Payroll Disbursements by Recipient

Sorted by total disbursement sum.

```
[20]: _ = non_payroll_df.groupby(['recipient', 'committee_name']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      _ .sort_values(by="disbursement_sum", inplace=True)
      -
```

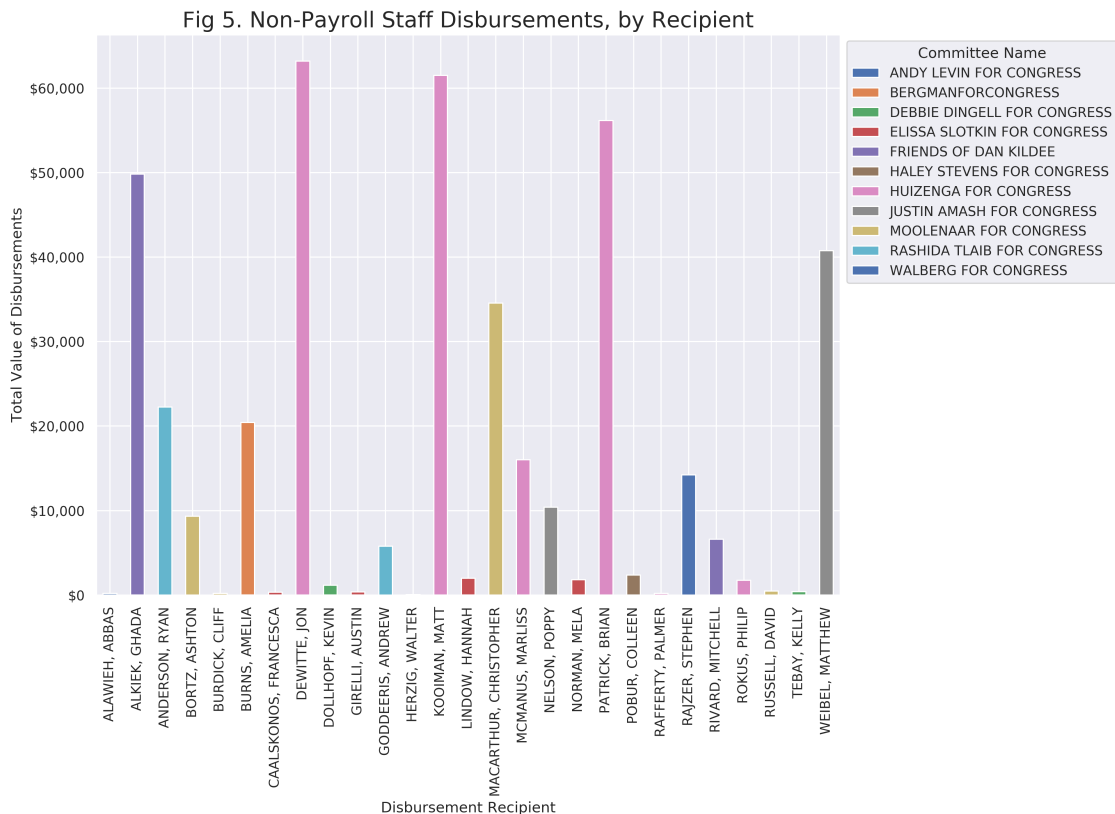
[20]:

recipient	committee_name	disbursement_count \
HERZIG, WALTER	ANDY LEVIN FOR CONGRESS	1
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	1
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	5
ALAWIEH, ABBAS	ANDY LEVIN FOR CONGRESS	1
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	3
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	2
TEBAY, KELLY	DEBBIE DINGELL FOR CONGRESS	1
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	2
DOLLHOPF, KEVIN	DEBBIE DINGELL FOR CONGRESS	7
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	2
NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	4
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	5
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	3
GODDEERIS, ANDREW	RASHIDA TLAIB FOR CONGRESS	4
RIVARD, MITCHELL	FRIENDS OF DAN KILDEE	11
BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	49
NELSON, POPPY	JUSTIN AMASH FOR CONGRESS	9
RAJZER, STEPHEN	WALBERG FOR CONGRESS	37
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	17
BURNS, AMELIA	BERGMANFORCONGRESS	24
ANDERSON, RYAN	RASHIDA TLAIB FOR CONGRESS	8
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	31
WEIBEL, MATTHEW	JUSTIN AMASH FOR CONGRESS	13
ALKIEK, GHADA	FRIENDS OF DAN KILDEE	21
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	78
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	107
DEWITTE, JON	HUIZENGA FOR CONGRESS	20

recipient	committee_name	disbursement_sum
HERZIG, WALTER	ANDY LEVIN FOR CONGRESS	67.96
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	201.84
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	208.73
ALAWIEH, ABBAS	ANDY LEVIN FOR CONGRESS	212.00
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	330.45
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	370.00
TEBAY, KELLY	DEBBIE DINGELL FOR CONGRESS	407.62
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	468.53
DOLLHOPF, KEVIN	DEBBIE DINGELL FOR CONGRESS	1150.10
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	1747.13
NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	1836.35
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	1976.67
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	2359.11
GODDEERIS, ANDREW	RASHIDA TLAIB FOR CONGRESS	5781.86
RIVARD, MITCHELL	FRIENDS OF DAN KILDEE	6623.10

BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	9334.05
NELSON, POPPY	JUSTIN AMASH FOR CONGRESS	10397.67
RAJZER, STEPHEN	WALBERG FOR CONGRESS	14229.88
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	16006.86
BURNS, AMELIA	BERGMANFORCONGRESS	20437.85
ANDERSON, RYAN	RASHIDA TLAIB FOR CONGRESS	22262.79
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	34539.73
WEIBEL, MATTHEW	JUSTIN AMASH FOR CONGRESS	40748.25
ALKIEK, GHADA	FRIENDS OF DAN KILDEE	49818.02
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	56178.91
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	61504.43
DEWITTE, JON	HUIZENGA FOR CONGRESS	63183.79

```
[21]: ax = _["disbursement_sum"].unstack().plot(kind="bar", stacked=True)
# Labels
plt.xlabel("Disbursement Recipient")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
plt.legend(title="Committee Name", bbox_to_anchor=(1.0, 1))
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Non-Payroll Staff Disbursements, by Recipient"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```



6.3 Non-Payroll Staff Disbursement, Grouped By Committee Name & Disbursement Purpose Category

```
[22]: _ = non_payroll_df.groupby(['committee_name', 'disbursement_purpose_category']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      -
```

```
[22]:
```

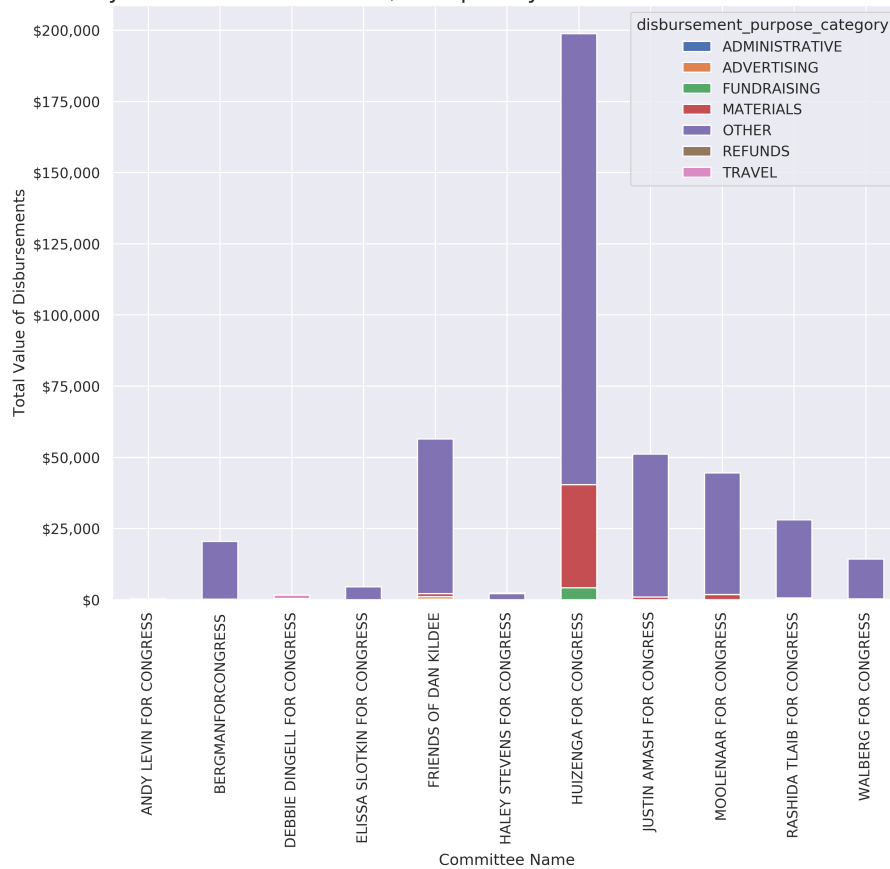
committee_name	disbursement_purpose_category	disbursement_count \
ANDY LEVIN FOR CONGRESS	OTHER	2
BERGMANFORCONGRESS	ADMINISTRATIVE	3
	OTHER	21
DEBBIE DINGELL FOR CONGRESS	OTHER	1
	TRAVEL	7
ELISSA SLOTKIN FOR CONGRESS	OTHER	14
FRIENDS OF DAN KILDEE	ADMINISTRATIVE	1
	ADVERTISING	2
	MATERIALS	5
	OTHER	23
	REFUNDS	1
HALEY STEVENS FOR CONGRESS	OTHER	2
	TRAVEL	1
HUIZENGA FOR CONGRESS	FUNDRAISING	4
	MATERIALS	14
	OTHER	207
JUSTIN AMASH FOR CONGRESS	MATERIALS	2
	OTHER	20
MOOLENAAR FOR CONGRESS	MATERIALS	8
	OTHER	79
RASHIDA TLAIB FOR CONGRESS	ADMINISTRATIVE	2
	FUNDRAISING	1
	MATERIALS	1
	OTHER	8
WALBERG FOR CONGRESS	ADMINISTRATIVE	2
	OTHER	35

committee_name	disbursement_purpose_category	disbursement_sum
ANDY LEVIN FOR CONGRESS	OTHER	279.96
BERGMANFORCONGRESS	ADMINISTRATIVE	179.49
	OTHER	20258.36

DEBBIE DINGELL FOR CONGRESS	OTHER	407.62
	TRAVEL	1150.10
ELISSA SLOTKIN FOR CONGRESS	OTHER	4513.47
FRIENDS OF DAN KILDEE	ADMINISTRATIVE	182.38
	ADVERTISING	868.04
	MATERIALS	1047.03
	OTHER	54338.67
	REFUNDS	5.00
HALEY STEVENS FOR CONGRESS	OTHER	2103.26
	TRAVEL	255.85
HUIZENGA FOR CONGRESS	FUNDRAISING	4195.00
	MATERIALS	36221.18
	OTHER	158406.78
JUSTIN AMASH FOR CONGRESS	MATERIALS	959.09
	OTHER	50186.83
MOOLENAAR FOR CONGRESS	MATERIALS	1799.19
	OTHER	42751.85
RASHIDA TLAIB FOR CONGRESS	ADMINISTRATIVE	164.46
	FUNDRAISING	218.00
	MATERIALS	264.11
	OTHER	27398.08
WALBERG FOR CONGRESS	ADMINISTRATIVE	296.20
	OTHER	13933.68

```
[23]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Non-Payroll Staff Disbursement, Grouped By Committee_
↳Name & Disbursement Category"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```


Fig 6. Non-Payroll Staff Disbursement, Grouped By Committee Name & Disbursement Category



6.4 Non-Payroll Material Staff Disbursement, Grouped By Committee Name & Disbursement Description

“The definition of the term contribution in the FECA is quite detailed . . . [U]nder FEC regulations, most outlays that an individual makes on behalf of a campaign are deemed to be a contribution to that campaign from that individual. This is so even if it is intended that the campaign will reimburse the individual promptly. The major exception to this rule is for outlays that an individual makes to cover expenses that he or she incurs in traveling on behalf of a campaign.” Assuming certain travel outlays are reimbursed within specified time periods, they will not be considered “contributions.”

```
[24]: material_df = non_payroll_df[non_payroll_df.
    ↳disbursement_purpose_category=="MATERIALS"]
    _ = material_df.groupby(['committee_name', 'disbursement_description']).
    ↳agg({"disbursement_amount": ["count", "sum"]})
    _.columns = ["_".join(x) for x in _.columns.ravel()]
```

```
_.columns=[c.replace("_amount", "") for c in _.columns]
-
```

[24]: disbursement_count

committee_name	disbursement_description	
FRIENDS OF DAN KILDEE	EXPENSE REIMBURSEMENT	2
	FOOD FOR OFFICE OPEN HOUSE	1
	TRAVEL EXPENSE REIMBURSEMENT	2
HUIZENGA FOR CONGRESS	ADMINISTRATIVE EXPENSE	2
	CAMPAIGN EXPENSES	5
	EXPENSE REIMBURSEMENT	2
	EXPENSES	3
	MILEAGE EXPENSE	1
	PHONE EXPENSE	1
JUSTIN AMASH FOR CONGRESS	TRAVEL EXPENSE--SEE MEMO	1
	TRAVEL EXPENSE-SEE MEMOS	1
MOOLENAAR FOR CONGRESS	EXPENSE REIMBURSEMENT - ITEMIZED	1
	MILEAGE - EXPENSES ITEMIZED	2
	MILEAGE, EXPENSES - ITEMIZED	5
RASHIDA TLAIB FOR CONGRESS	REIMBURSEMENT OF TRAVEL EXPENSES	1

committee_name	disbursement_description	disbursement_sum
FRIENDS OF DAN KILDEE	EXPENSE REIMBURSEMENT	642.66
	FOOD FOR OFFICE OPEN HOUSE	42.47
	TRAVEL EXPENSE REIMBURSEMENT	361.90
HUIZENGA FOR CONGRESS	ADMINISTRATIVE EXPENSE	1000.00
	CAMPAIGN EXPENSES	20675.85
	EXPENSE REIMBURSEMENT	3114.20
	EXPENSES	11132.20
	MILEAGE EXPENSE	213.27
	PHONE EXPENSE	85.66
JUSTIN AMASH FOR CONGRESS	TRAVEL EXPENSE--SEE MEMO	155.09
	TRAVEL EXPENSE-SEE MEMOS	804.00
MOOLENAAR FOR CONGRESS	EXPENSE REIMBURSEMENT - ITEMIZED	731.62
	MILEAGE - EXPENSES ITEMIZED	712.75
	MILEAGE, EXPENSES - ITEMIZED	354.82
RASHIDA TLAIB FOR CONGRESS	REIMBURSEMENT OF TRAVEL EXPENSES	264.11

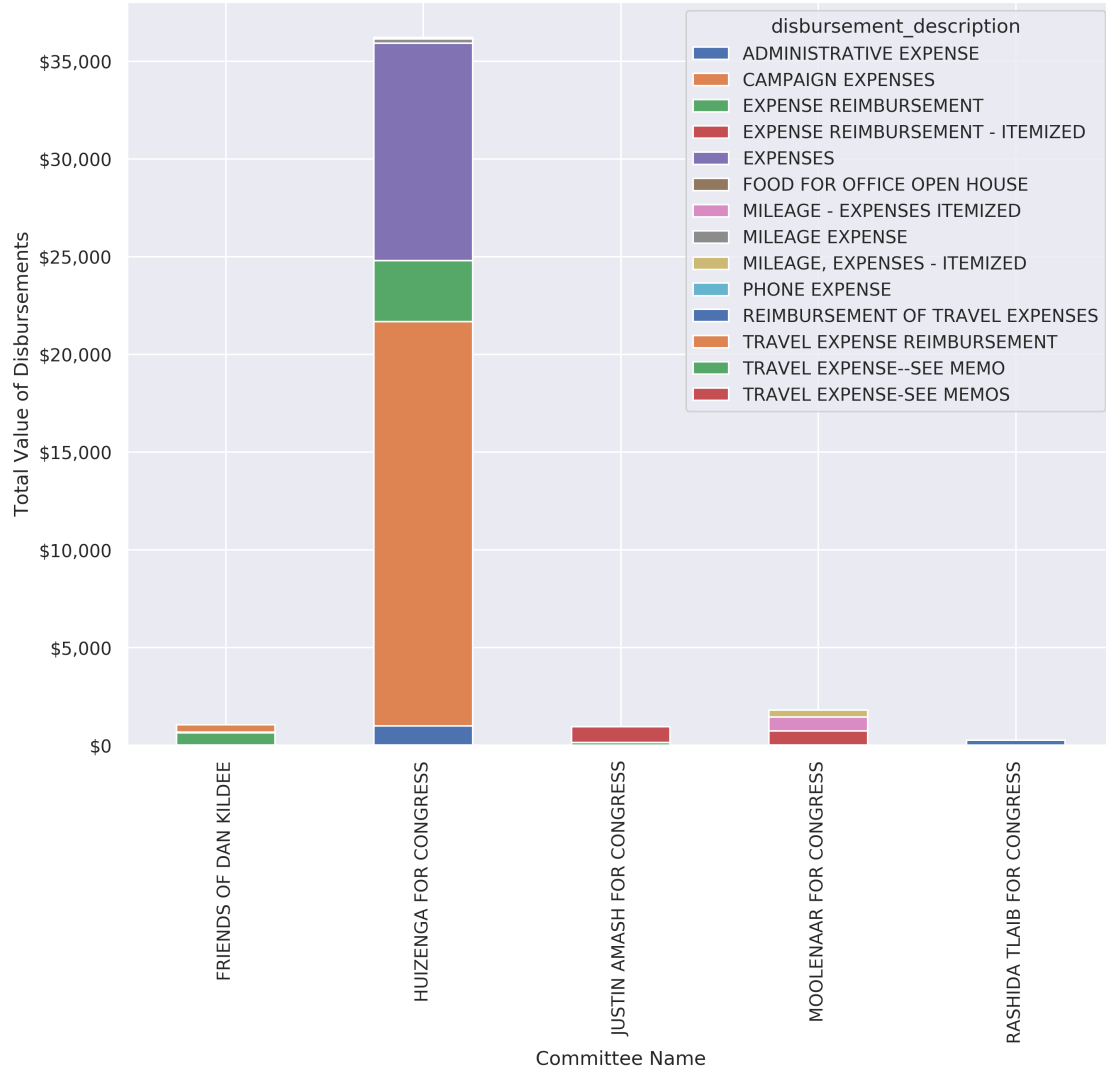
```
[25]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
```

```

title = f"Fig {fig_no}. Non-Payroll Staff Material Disbursement"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')

```

Fig 7. Non-Payroll Staff Material Disbursement



6.5 Non-Payroll Material Staff Disbursement, Grouped By Committee Name, Recipient, & Disbursement Description

```

[26]: _ = material_df.groupby(['committee_name', 'recipient', 'disbursement_description']).agg({"disbursement_amount": ["count", "sum"]})
_.columns = ["_".join(x) for x in _.columns.ravel()]
_.columns=[c.replace("_amount", "") for c in _.columns]

```

-

```

[26]:      disbursement_count  \
committee_name      recipient      disbursement_description
FRIENDS OF DAN KILDEE      ALKIEK, GHADA      FOOD FOR OFFICE OPEN HOUSE
1
                                RIVARD, MITCHELL      EXPENSE REIMBURSEMENT
2
                                TRAVEL EXPENSE REIMBURSEMENT
2
HUIZENGA FOR CONGRESS      DEWITTE, JON      CAMPAIGN EXPENSES
5
                                EXPENSES
3
                                KOOIMAN, MATT      ADMINISTRATIVE EXPENSE
2
                                MILEAGE EXPENSE
1
                                PHONE EXPENSE
1
                                MCMANUS, MARLISS      EXPENSE REIMBURSEMENT
2
JUSTIN AMASH FOR CONGRESS      NELSON, POPPY      TRAVEL EXPENSE--SEE MEMO
1
                                WEIBEL, MATTHEW      TRAVEL EXPENSE-SEE MEMOS
1
MOOLENAAR FOR CONGRESS      BORTZ, ASHTON      MILEAGE - EXPENSES ITEMIZED
2
                                BURDICK, CLIFF      MILEAGE, EXPENSES - ITEMIZED
4
                                MACARTHUR, CHRISTOPHER      EXPENSE REIMBURSEMENT -
ITEMIZED      1
                                MILEAGE, EXPENSES - ITEMIZED
1
RASHIDA TLAIB FOR CONGRESS      ANDERSON, RYAN      REIMBURSEMENT OF TRAVEL
EXPENSES      1

      disbursement_sum
committee_name      recipient      disbursement_description
FRIENDS OF DAN KILDEE      ALKIEK, GHADA      FOOD FOR OFFICE OPEN HOUSE
42.47
                                RIVARD, MITCHELL      EXPENSE REIMBURSEMENT
642.66
                                TRAVEL EXPENSE REIMBURSEMENT
361.90
HUIZENGA FOR CONGRESS      DEWITTE, JON      CAMPAIGN EXPENSES
20675.85

```

		EXPENSES
11132.20		
	KOOIMAN, MATT	ADMINISTRATIVE EXPENSE
1000.00		
		MILEAGE EXPENSE
213.27		
		PHONE EXPENSE
85.66		
	MCMANUS, MARLISS	EXPENSE REIMBURSEMENT
3114.20		
JUSTIN AMASH FOR CONGRESS	NELSON, POPPY	TRAVEL EXPENSE--SEE MEMO
155.09		
	WEIBEL, MATTHEW	TRAVEL EXPENSE-SEE MEMOS
804.00		
MOOLENAAR FOR CONGRESS	BORTZ, ASHTON	MILEAGE - EXPENSES ITEMIZED
712.75		
	BURDICK, CLIFF	MILEAGE, EXPENSES - ITEMIZED
178.71		
	MACARTHUR, CHRISTOPHER	EXPENSE REIMBURSEMENT -
ITEMIZED	731.62	
		MILEAGE, EXPENSES - ITEMIZED
176.11		
RASHIDA TLAIB FOR CONGRESS	ANDERSON, RYAN	REIMBURSEMENT OF TRAVEL
EXPENSES	264.11	

7 Misc. Disbursement Analysis

7.1 Mileage

What campaign staff gets reimbursed most for driving.

```
[27]: df.disbursement_description = df.disbursement_description.apply(str)
mileage_df = df2[
    df2.disbursement_description.str.contains("MILE")
]
```

7.1.1 Staff mileage disbursement, Grouped by Committee Name

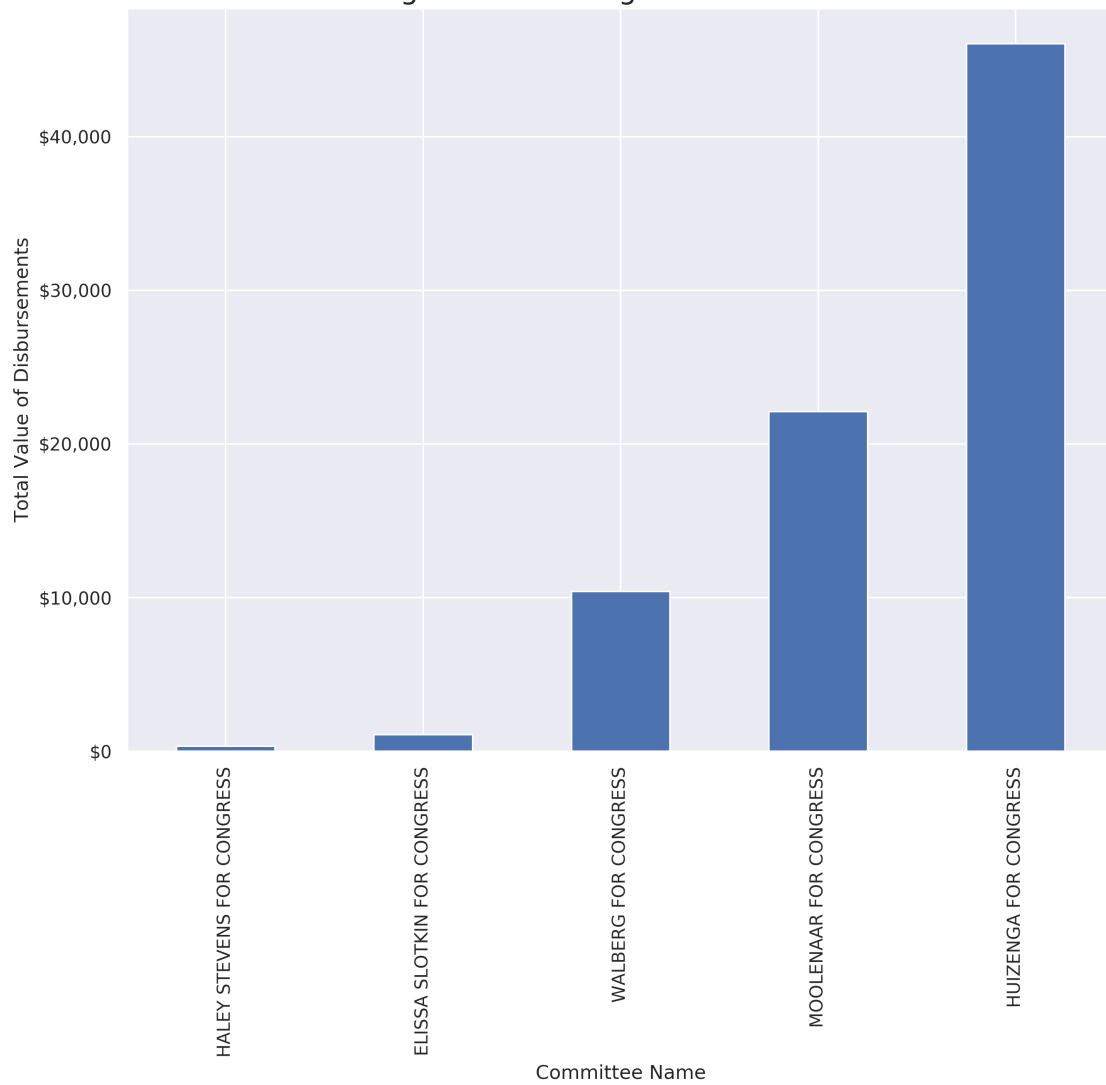
```
[28]: _ = mileage_df.groupby(['committee_name']).agg({"disbursement_amount":
↳ ["count", "sum"]})
_.columns = ["_".join(x) for x in _.columns.ravel()]
_.columns=[c.replace("_amount", "") for c in _.columns]
_.sort_values(by="disbursement_sum", inplace=True)
-
```

```
[28]:
```

	disbursement_count	disbursement_sum
committee_name		
HALEY STEVENS FOR CONGRESS	1	327.70
ELISSA SLOTKIN FOR CONGRESS	6	1086.90
WALBERG FOR CONGRESS	22	10410.20
MOOLENAAR FOR CONGRESS	69	22114.57
HUIZENGA FOR CONGRESS	97	46052.65

```
[29]: ax = _["disbursement_sum"].plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Committee Name")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Staff Mileage Disbursement"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```

Fig 8. Staff Mileage Disbursement



7.1.2 Staff mileage disbursement, Grouped by Committee Name with Full Disbursement Description

```
[30]: _ = mileage_df.groupby(['committee_name', 'disbursement_description']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      -
```

```
[30]: disbursement_count \
      committee_name      disbursement_description
```

ELISSA SLOTKIN FOR CONGRESS	MILEAGE REIMBURSEMENT
6	
HALEY STEVENS FOR CONGRESS	MILEAGE
1	
HUIZENGA FOR CONGRESS	CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
1	
	MILEAGE EXPENSE
1	
	MILEAGE REIMBURSEMENT
66	
	REIMBURSEMENT FOR MILEAGE
2	
	TRAVEL: MILEAGE REIMBURSEMENT
27	
MOOLENAAR FOR CONGRESS	MILEAGE
39	
	MILEAGE - EXPENSES ITEMIZED
2	
	MILEAGE REIMBURSEMENT
19	
	MILEAGE, EQUIPMENT - ITEMIZED
1	
	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
3	
	MILEAGE, EXPENSES - ITEMIZED
5	
WALBERG FOR CONGRESS	MILEAGE
13	
	TRAVEL: MILEAGE
9	
disbursement_sum	
committee_name	disbursement_description
ELISSA SLOTKIN FOR CONGRESS	MILEAGE REIMBURSEMENT
1086.90	
HALEY STEVENS FOR CONGRESS	MILEAGE
327.70	
HUIZENGA FOR CONGRESS	CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
229.71	
	MILEAGE EXPENSE
213.27	
	MILEAGE REIMBURSEMENT
33288.11	
	REIMBURSEMENT FOR MILEAGE
454.09	
	TRAVEL: MILEAGE REIMBURSEMENT
11867.47	

MOOLENAAR FOR CONGRESS	MILEAGE
14591.30	
	MILEAGE - EXPENSES ITEMIZED
712.75	
	MILEAGE REIMBURSEMENT
5404.05	
	MILEAGE, EQUIPMENT - ITEMIZED
526.40	
	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
525.25	
	MILEAGE, EXPENSES - ITEMIZED
354.82	
WALBERG FOR CONGRESS	MILEAGE
7076.30	
	TRAVEL: MILEAGE
3333.90	

7.1.3 Staff mileage disbursement, Grouped by Recipient

Sorted by total disbursement sum.

```
[31]: _ = mileage_df.groupby(['recipient', 'committee_name']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      _ .sort_values(by="disbursement_sum", inplace=True)
      -
```

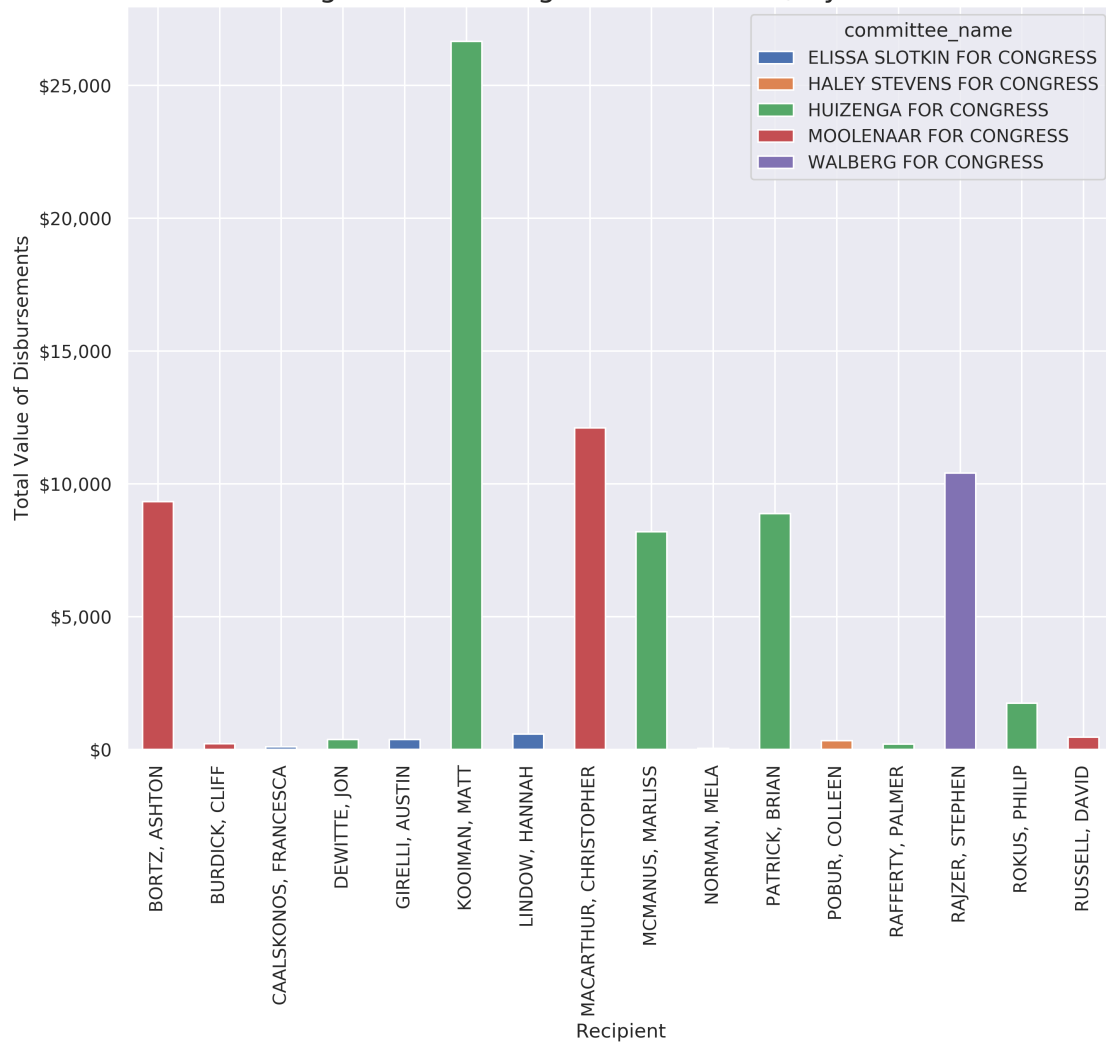
```
[31]:
```

recipient	committee_name	disbursement_count \
NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	1
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	1
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	1
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	5
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	1
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	2
DEWITTE, JON	HUIZENGA FOR CONGRESS	1
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	2
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	2
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	2
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	13
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	17
BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	49
RAJZER, STEPHEN	WALBERG FOR CONGRESS	22
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	13
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	63

recipient	committee_name	disbursement_sum
NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	42.44
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	97.60
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	201.84
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	208.73
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	327.70
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	370.00
DEWITTE, JON	HUIZENGA FOR CONGRESS	374.08
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	468.53
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	576.86
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	1747.13
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	8195.85
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	8874.61
BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	9334.05
RAJZER, STEPHEN	WALBERG FOR CONGRESS	10410.20
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	12103.26
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	26659.14

```
[32]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Recipient")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Staff Mileage Disbursement, By Staffer"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```

Fig 9. Staff Mileage Disbursement, By Staffer



7.2 Consulting Work

What campaign staff gets reimbursed most for "Consulting" work.

```
[33]: df.disbursement_description = df.disbursement_description.apply(str)
      consulting_df = df2[
          df2.disbursement_description.str.contains("CONSULT")
      ]
```

7.2.1 Staff consulting disbursement, Grouped by Committee Name

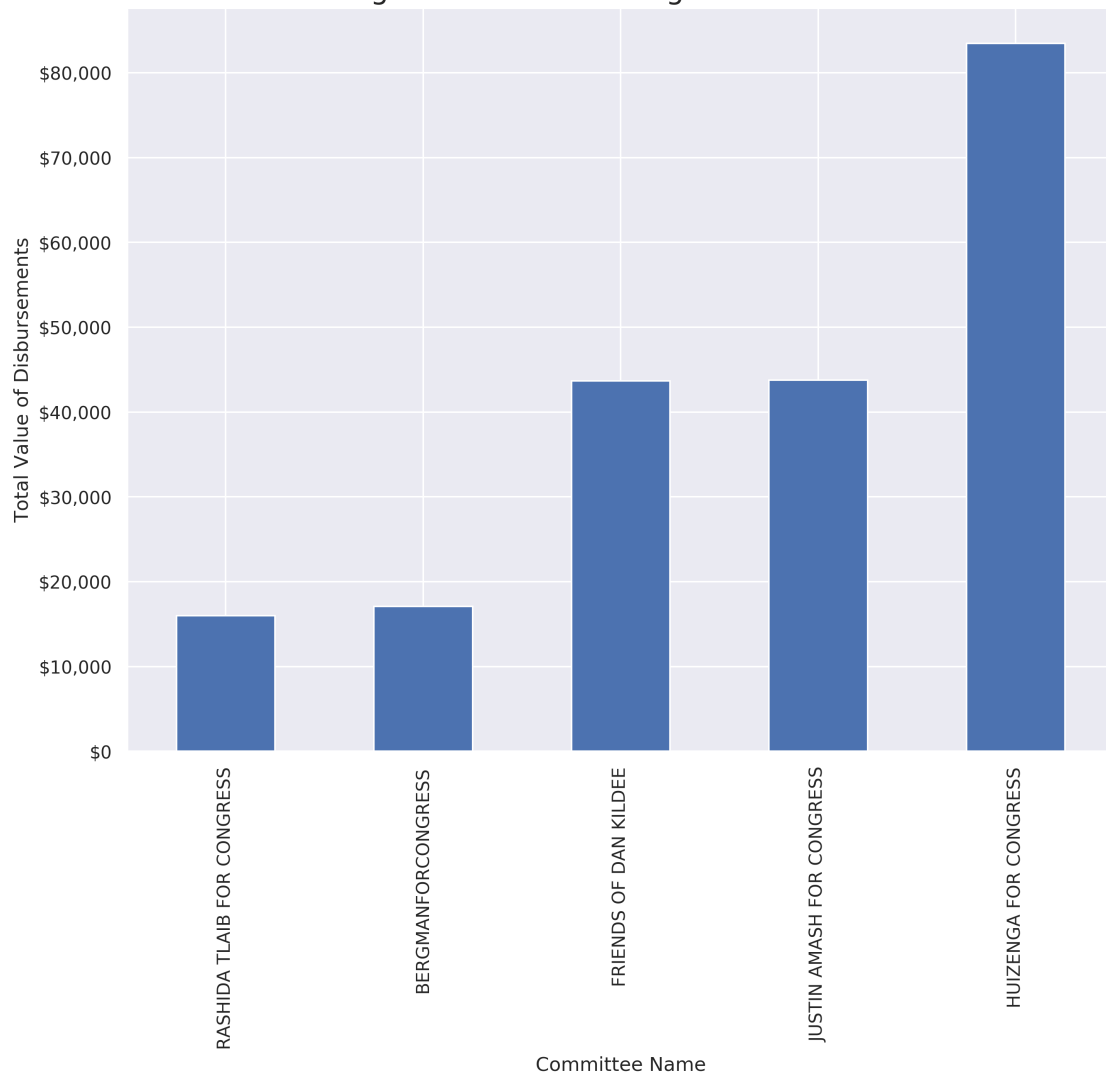
```
[34]: _ = consulting_df.groupby(['committee_name']).agg({"disbursement_amount":  
→["count", "sum"]})  
_.columns = ["_".join(x) for x in _.columns.ravel()]  
_.columns=[c.replace("_amount", "") for c in _.columns]  
_.sort_values(by="disbursement_sum", inplace=True)  
-
```

```
[34]:
```

	disbursement_count	disbursement_sum
committee_name		
RASHIDA TLAIB FOR CONGRESS	2	16000.00
BERGMANFORCONGRESS	9	17095.00
FRIENDS OF DAN KILDEE	17	43672.56
JUSTIN AMASH FOR CONGRESS	14	43749.66
HUIZENGA FOR CONGRESS	90	83463.40

```
[35]: ax = _["disbursement_sum"].plot(kind='bar', stacked=True)  
# Labels  
plt.xlabel("Committee Name")  
plt.ylabel("Total Value of Disbursements")  
ax.yaxis.set_major_formatter(dollar_tick)  
# Title & Save  
fig_no+=1  
title = f"Fig {fig_no}. Staff Consulting Disbursement"  
plt.title(title)  
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```

Fig 10. Staff Consulting Disbursement



7.2.2 Staff consulting disbursement, Grouped by Committee Name with Full Disbursement Description

```
[36]: _ = consulting_df.groupby(['committee_name', 'disbursement_description']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      _
```

```
[36]: committee_name      disbursement_description      disbursement_count \
      BERGMANFORCONGRESS      CAMPAIGN CONSULTING      1
```

	FIELD CONSULTING	6
	STRATEGY CONSULTING	2
FRIENDS OF DAN KILDEE	CONTRACT CONSULTING	2
	FUNDRAISING CONSULTING	14
	SOCIAL MEDIA CONSULTING	1
HUIZENGA FOR CONGRESS	CAMPAIGN CONSULTANT	51
	CAMPAIGN CONSULTING	3
	CONSULTING SERVICES	4
	FIELD CONSULTANT	1
	FIELD CONSULTING	12
	FUNDRAISING CONSULTING	8
	STRATEGY CONSULTING	11
JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE CONSULTING	14
RASHIDA TLAIB FOR CONGRESS	FUNDRAISING CONSULTATION	2

committee_name	disbursement_description	disbursement_sum
BERGMANFORCONGRESS	CAMPAIGN CONSULTING	2000.00
	FIELD CONSULTING	10095.00
	STRATEGY CONSULTING	5000.00
FRIENDS OF DAN KILDEE	CONTRACT CONSULTING	3720.00
	FUNDRAISING CONSULTING	39166.00
	SOCIAL MEDIA CONSULTING	786.56
HUIZENGA FOR CONGRESS	CAMPAIGN CONSULTANT	30837.98
	CAMPAIGN CONSULTING	3000.00
	CONSULTING SERVICES	17354.10
	FIELD CONSULTANT	500.00
	FIELD CONSULTING	9055.00
	FUNDRAISING CONSULTING	8966.32
	STRATEGY CONSULTING	13750.00
JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE CONSULTING	43749.66
RASHIDA TLAIB FOR CONGRESS	FUNDRAISING CONSULTATION	16000.00

7.2.3 Staff consulting disbursement, Grouped by Recipient

Sorted by total disbursement sum.

```
[37]: _ = mileage_df.groupby(['recipient', 'committee_name']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      _ .sort_values(by="disbursement_sum", inplace=True)
      -
```

```
[37]:
```

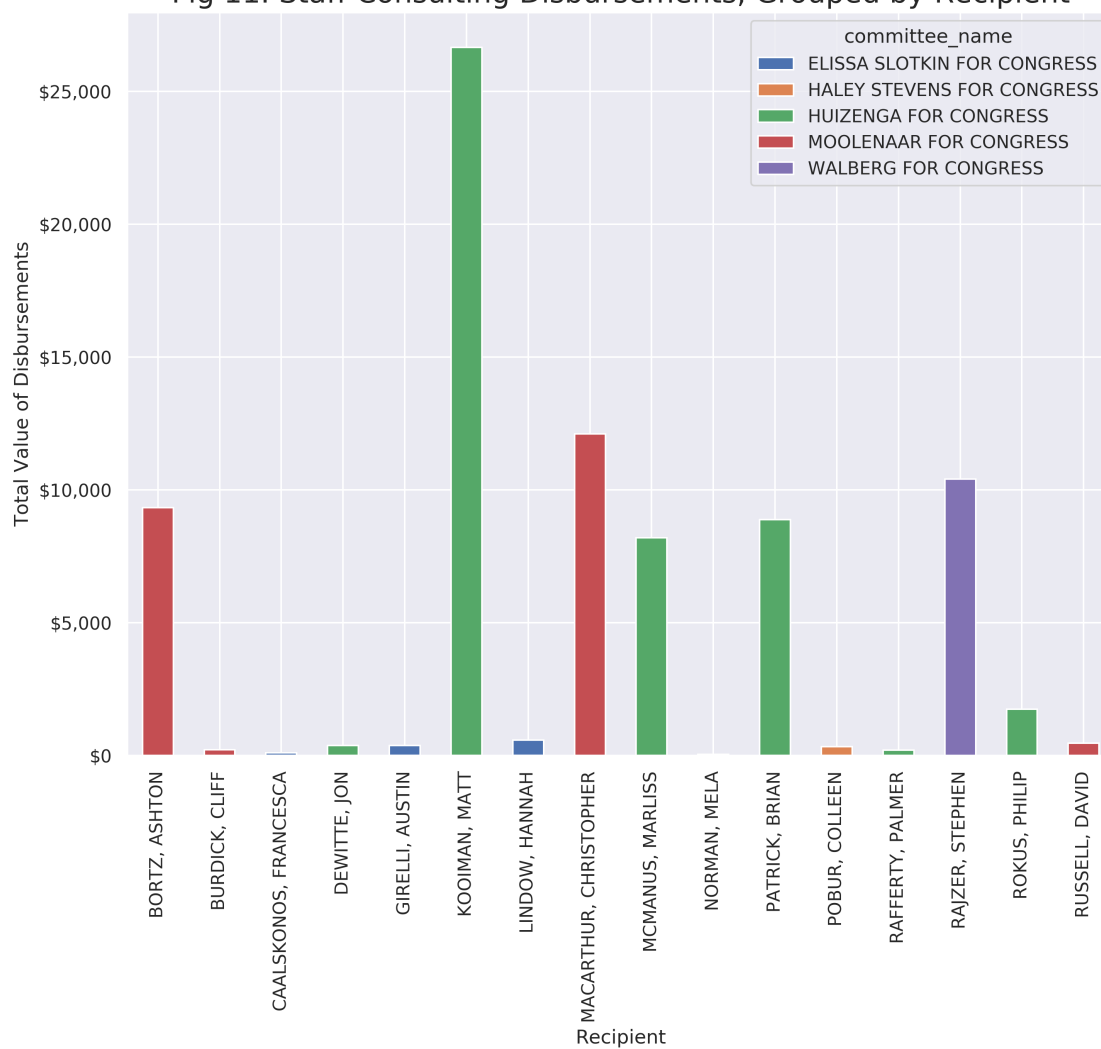
recipient	committee_name	disbursement_count \
-----------	----------------	----------------------

NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	1
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	1
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	1
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	5
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	1
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	2
DEWITTE, JON	HUIZENGA FOR CONGRESS	1
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	2
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	2
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	2
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	13
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	17
BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	49
RAJZER, STEPHEN	WALBERG FOR CONGRESS	22
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	13
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	63

recipient	committee_name	disbursement_sum
NORMAN, MELA	ELISSA SLOTKIN FOR CONGRESS	42.44
CAALSKONOS, FRANCESCA	ELISSA SLOTKIN FOR CONGRESS	97.60
RAFFERTY, PALMER	HUIZENGA FOR CONGRESS	201.84
BURDICK, CLIFF	MOOLENAAR FOR CONGRESS	208.73
POBUR, COLLEEN	HALEY STEVENS FOR CONGRESS	327.70
GIRELLI, AUSTIN	ELISSA SLOTKIN FOR CONGRESS	370.00
DEWITTE, JON	HUIZENGA FOR CONGRESS	374.08
RUSSELL, DAVID	MOOLENAAR FOR CONGRESS	468.53
LINDOW, HANNAH	ELISSA SLOTKIN FOR CONGRESS	576.86
ROKUS, PHILIP	HUIZENGA FOR CONGRESS	1747.13
MCMANUS, MARLISS	HUIZENGA FOR CONGRESS	8195.85
PATRICK, BRIAN	HUIZENGA FOR CONGRESS	8874.61
BORTZ, ASHTON	MOOLENAAR FOR CONGRESS	9334.05
RAJZER, STEPHEN	WALBERG FOR CONGRESS	10410.20
MACARTHUR, CHRISTOPHER	MOOLENAAR FOR CONGRESS	12103.26
KOOIMAN, MATT	HUIZENGA FOR CONGRESS	26659.14

```
[38]: ax = _["disbursement_sum"].unstack().plot(kind='bar', stacked=True)
# Labels
plt.xlabel("Recipient")
plt.ylabel("Total Value of Disbursements")
ax.yaxis.set_major_formatter(dollar_tick)
# Title & Save
fig_no+=1
title = f"Fig {fig_no}. Staff Consulting Disbursements, Grouped by Recipient"
plt.title(title)
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```

Fig 11. Staff Consulting Disbursements, Grouped by Recipient



7.3 "Other", Non-Payroll.

What campaign staff gets reimbursed most for "Other" & what disbursement purposes does each campaign count as 'Other'.

```
[39]: df.disbursement_description = df.disbursement_description.apply(str)
non_payroll_other_df = non_payroll_df[
    non_payroll_df.disbursement_purpose_category == "OTHER"
]
```


7.3.1 Non-Payroll Staff "OTHER" disbursements, Grouped by Committee Name

Sorted by total disbursement sum.

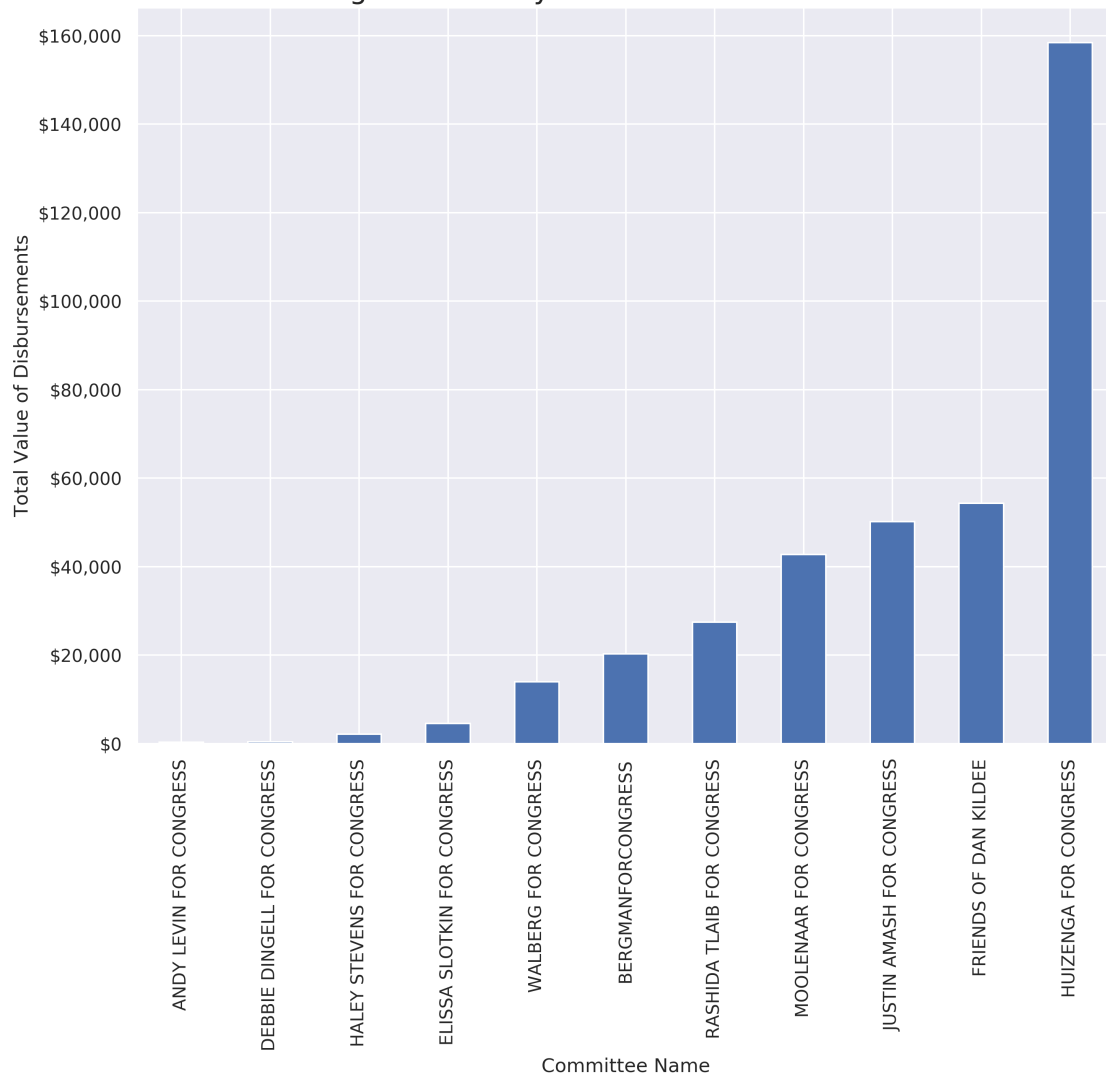
```
[40]: _ = non_payroll_other_df.groupby(['committee_name']).agg({"disbursement_amount":  
    ↪ ["count", "sum"]})  
_ .columns = ["_".join(x) for x in _ .columns.ravel()]  
_ .columns=[c.replace("_amount", "") for c in _ .columns]  
_ .sort_values(by="disbursement_sum", inplace=True)  
-
```

```
[40]:
```

	disbursement_count	disbursement_sum
committee_name		
ANDY LEVIN FOR CONGRESS	2	279.96
DEBBIE DINGELL FOR CONGRESS	1	407.62
HALEY STEVENS FOR CONGRESS	2	2103.26
ELISSA SLOTKIN FOR CONGRESS	14	4513.47
WALBERG FOR CONGRESS	35	13933.68
BERGMANFORCONGRESS	21	20258.36
RASHIDA TLAIB FOR CONGRESS	8	27398.08
MOOLENAAR FOR CONGRESS	79	42751.85
JUSTIN AMASH FOR CONGRESS	20	50186.83
FRIENDS OF DAN KILDEE	23	54338.67
HUIZENGA FOR CONGRESS	207	158406.78

```
[41]: ax = _["disbursement_sum"].plot(kind='bar', stacked=True)  
# Labels  
plt.xlabel("Committee Name")  
plt.ylabel("Total Value of Disbursements")  
ax.yaxis.set_major_formatter(dollar_tick)  
# Title & Save  
fig_no+=1  
title = f"Fig {fig_no}. Non-Payroll 'Other' Disbursements"  
plt.title(title)  
plt.savefig(f"{title}.png", transparent=False, bbox_inches='tight')
```

Fig 12. Non-Payroll 'Other' Disbursements



7.3.2 Staff "other" disbursements, Grouped by Committee Name with Full Disbursement Description

```
[42]: _ = non_payroll_other_df.groupby(['committee_name', 'disbursement_description']).
      ↪agg({"disbursement_amount": ["count", "sum"]})
      _ .columns = ["_".join(x) for x in _ .columns.ravel()]
      _ .columns=[c.replace("_amount", "") for c in _ .columns]
      _
```

```
[42]: disbursement_count \
      committee_name      disbursement_description
```

ANDY LEVIN FOR CONGRESS	EVENT SUPPLIES
1	
	OFFICE SUPPLY REIMBURSEMENT
1	
BERGMANFORCONGRESS	CAMPAIGN CONSULTING
1	
	FIELD CONSULTING
6	
	NO ITEMIZATION NECESSARY
1	
	SEE BELOW
2	
	SEE MEMO ENTRIES
5	
	SEE MEMO ENTRY
4	
	STRATEGY CONSULTING
2	
DEBBIE DINGELL FOR CONGRESS	REIMBURSEMENT
1	
ELISSA SLOTKIN FOR CONGRESS	MILEAGE REIMBURSEMENT
6	
	REIMBURSEMENT
4	
	REIMBURSEMENT (VENDORS OVER \$200 AGGREGATE BELOW)
2	
	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
1	
	REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
1	
FRIENDS OF DAN KILDEE	ADVANCE FOR PURCHASE OF FOOD FOR FUNDRAISER
1	
	CONTRACT CONSULTING
2	
	CONTRACT PROFESSIONAL SERVICES
1	
	FUEL REIMBURSEMENT FOR CAMPAIGN APPEARANCES
1	
	FUNDRAISER SUPPLIES
1	
	FUNDRAISING CONSULTING
14	
	FUNDRAISING EMPLOYEE
1	
	OFFICE SUPPLY REIMBURSEMENT
1	
	SUPPLIES

1	HALEY STEVENS FOR CONGRESS	MILEAGE
1		REIMBURSEMENT - TRAVEL
1	HUIZENGA FOR CONGRESS	ADMINISTRATION SERVICES
5		CAMPAIGN BREAKFAST MEETING
1		CAMPAIGN CONSULTANT
51		CAMPAIGN CONSULTING
3		CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
1		CONSULTING SERVICES
4		FIELD CONSULTANT
1		FIELD CONSULTING
12		FUNDRAISING CONSULTING
8		LABOR FOR CAMPAIGN WORKER
1		MILEAGE REIMBURSEMENT
66		PERFORMANCE BONUS
1		REFRESHMENTS FOR CAMPAIGN EVENT
1		REIMBURSEMENT FOR MILEAGE
2		SEE BELOW
10		STRATEGY CONSULTING
11		TAXI & FED EX SUPPLIES REIMBUR
1		TRAVEL: MILEAGE REIMBURSEMENT
27		nan
1	JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE CONSULTING
14		ADMINISTRATIVE/STRATEGIC SUPPORT
2		

2	ADMINISTRATIVE/STRATEGIC SUPPORT
1	REIMBURSEMENT FOR TONER
1	TRAVEL
1	MILEAGE
MOOLENAAR FOR CONGRESS	
39	MILEAGE REIMBURSEMENT
19	MILEAGE, EQUIPMENT - ITEMIZED
1	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
3	SUPPLIES - ITEMIZED
1	WAGES
16	
RASHIDA TLAIB FOR CONGRESS	CAMPAIGN FINANCE DIRECTOR PAY 2/12 TO 2/28
1	FINANCE DIRECTOR PAY
1	FUNDRAISING CONSULTATION
2	REIMBURSEMENT
1	REIMBURSEMENT - TRAVEL
1	REIMBURSEMENT FROM TRAVEL
1	RESEARCH
1	MILEAGE
WALBERG FOR CONGRESS	
13	OTHER: REIMBURSEMENT - FOOD/SUPPLIES
1	OTHER: REIMBURSEMENT - INSURANCE
1	OTHER: REIMBURSEMENT - SUPPLIES
6	OTHER: REIMBURSEMENT - SUPPLIES/FOOD
3	OTHER: REIMBURSEMENT - TRAVEL
1	REIMBURSEMENT - SUPPLIES, INSURANCE
1	TRAVEL: MILEAGE

disbursement_sum	committee_name	disbursement_description
67.96	ANDY LEVIN FOR CONGRESS	EVENT SUPPLIES
		OFFICE SUPPLY REIMBURSEMENT
212.00		
BERGMANFORCONGRESS		CAMPAIGN CONSULTING
2000.00		
		FIELD CONSULTING
10095.00		
		NO ITEMIZATION NECESSARY
120.41		
		SEE BELOW
1366.79		
		SEE MEMO ENTRIES
1116.48		
		SEE MEMO ENTRY
559.68		
		STRATEGY CONSULTING
5000.00		
DEBBIE DINGELL FOR CONGRESS		REIMBURSEMENT
407.62		
ELISSA SLOTKIN FOR CONGRESS		MILEAGE REIMBURSEMENT
1086.90		
		REIMBURSEMENT
1749.81		
		REIMBURSEMENT (VENDORS OVER \$200 AGGREGATE BELOW)
1048.71		
		REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
443.91		
		REIMBURSEMENT (VENDORS THAT AGGREGATE OVER \$200...
184.14		
FRIENDS OF DAN KILDEE		ADVANCE FOR PURCHASE OF FOOD FOR FUNDRAISER
434.00		
		CONTRACT CONSULTING
3720.00		
		CONTRACT PROFESSIONAL SERVICES
706.24		
		FUEL REIMBURSEMENT FOR CAMPAIGN APPEARANCES
181.30		
		FUNDRAISER SUPPLIES
45.96		
		FUNDRAISING CONSULTING
39166.00		
		FUNDRAISING EMPLOYEE

9841.76	OFFICE SUPPLY REIMBURSEMENT
219.44	SUPPLIES
23.97	
HALEY STEVENS FOR CONGRESS	MILEAGE
327.70	REIMBURSEMENT - TRAVEL
1775.56	
HUIZENGA FOR CONGRESS	ADMINISTRATION SERVICES
2500.00	CAMPAIGN BREAKFAST MEETING
39.47	CAMPAIGN CONSULTANT
30837.98	CAMPAIGN CONSULTING
3000.00	CAMPAIGN EVENT: MILEAGE REIMBURSEMENT
229.71	CONSULTING SERVICES
17354.10	FIELD CONSULTANT
500.00	FIELD CONSULTING
9055.00	FUNDRAISING CONSULTING
8966.32	LABOR FOR CAMPAIGN WORKER
750.00	MILEAGE REIMBURSEMENT
33288.11	PERFORMANCE BONUS
1000.00	REFRESHMENTS FOR CAMPAIGN EVENT
1100.00	REIMBURSEMENT FOR MILEAGE
454.09	SEE BELOW
21454.54	STRATEGY CONSULTING
13750.00	TAXI & FED EX SUPPLIES REIMBUR
259.99	TRAVEL: MILEAGE REIMBURSEMENT
11867.47	nan
2000.00	

JUSTIN AMASH FOR CONGRESS	ADMINISTRATIVE CONSULTING
43749.66	
	ADMINISTRATIVE/STRATEGIC SUPPORT
3436.03	
	ADMINISTRATIVE/STRATEGIC SUPPORT
2872.06	
	REIMBURSEMENT FOR TONER
116.58	
	TRAVEL
12.50	
MOOLENAAR FOR CONGRESS	MILEAGE
14591.30	
	MILEAGE REIMBURSEMENT
5404.05	
	MILEAGE, EQUIPMENT - ITEMIZED
526.40	
	MILEAGE, EXP. REIMBURSEMENT - ITEMIZED
525.25	
	SUPPLIES - ITEMIZED
149.60	
	WAGES
21555.25	
RASHIDA TLAIB FOR CONGRESS	CAMPAIGN FINANCE DIRECTOR PAY 2/12 TO 2/28
2550.00	
	FINANCE DIRECTOR PAY
675.00	
	FUNDRAISING CONSULTATION
16000.00	
	REIMBURSEMENT
1359.35	
	REIMBURSEMENT - TRAVEL
492.40	
	REIMBURSEMENT FROM TRAVEL
1196.33	
	RESEARCH
5125.00	
WALBERG FOR CONGRESS	MILEAGE
7076.30	
	OTHER: REIMBURSEMENT - FOOD/SUPPLIES
573.65	
	OTHER: REIMBURSEMENT - INSURANCE
74.21	
	OTHER: REIMBURSEMENT - SUPPLIES
1371.93	
	OTHER: REIMBURSEMENT - SUPPLIES/FOOD
960.58	
	OTHER: REIMBURSEMENT - TRAVEL

238.71

REIMBURSEMENT - SUPPLIES, INSURANCE

304.40

TRAVEL: MILEAGE

3333.90