

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

-----X

SHAUNA NOEL and EMMANUELLA SENAT,

Plaintiffs,

-against-

15-CV-5236 (LTS) (KHP)

CITY OF NEW YORK,

Defendant.

-----X

JAN. 22, 2020 UPDATES PURSUANT TO FRCP 26(E)
IN RESPONSE TO REVISED DATA FROM DR. SISKIN,
AS AMENDED JAN. 27, 2020

1. These updates to my previous deconstructions of Dr. Siskin’s analyses are necessitated by Dr. Siskin’s recent revisions to his analyses.

2. In respect to perpetuation of segregation, Dr. Siskin noted in his November 12, 2019 amended sur-reply report that I was correct to have identified an error in his programming that resulted in incorrect determinations of whether an applicant’s move was integrative, segregative, or had no effect.¹ Among other things, Dr. Siskin produced a revised simulation of the lottery, running it as he had before on the 145 lotteries located in a single census tract (Table R7).

3. As shown to Dr. Siskin at his November 15, 2019 deposition,² his programming still had another serious error – an incorrect method of determining which applicants were eligible for CB preference. At that deposition, plaintiffs’ counsel presented the results of a simulation I ran in which I corrected for Dr. Siskin’s programming error and disaggregated the results for the 1,000

¹ See Siskin Nov. 12, 2019 Amended Sur-Reply Report, at 30.

² See plaintiffs’ Exhibits 347-350 and accompanying deposition text.

runs of the simulation where community preference³ was in effect in order to distinguish between insiders and outsiders.

4. In a further December 13, 2019 amendment to Dr. Siskin's opposition report, he has corrected the programming error identified, and made other changes to his programming as well. The results are shown in his Table 7, at 59. As before, he does not disaggregate the results of the 1,000 simulations where community preference was in effect in order to compare insiders and outsiders.

5. In the December 20, 2019 errata to his deposition, Dr. Siskin asserted, *inter alia*, that the correction I made (one of the corrections Dr. Siskin made, too) would "not get you the corrected Table 7."⁴

6. So that the data basis for my disaggregated results is the same as what Dr. Siskin is now using, I attach here as Exhibit 1 the results of Dr. Siskin's own most recent perpetuation of segregation simulation insofar as the 1,000 simulations where community preference is in place. The exhibit shows the results disaggregated between the impact of moves made on the one hand by those who Dr. Siskin identifies as having received CB awards and the impact of moves made on the other hand by those who Dr. Siskin identifies as having received awards other than CB awards (HV, NP, etc.). The exhibit also shows the aggregated results.

7. As before, for each of six racial pairs, the net integrative result of moves by those not receiving CB awards is substantially greater than the net integrative result of moves by those receiving CB awards in the simulation; or, put another way, the net integrative result of moves by those receiving CB awards in the simulation is substantially less than the net integrative result of

³ See plaintiffs' Ex. 350.

⁴ See Dec. 20, 2019 Siskin Deposition errata, at 111:8.

moves by those not receiving CB awards.

8. Dr. Siskin combines into the “no effect” grouping not only those members of the relevant pair (say White and Asian, for example) whose moves have no impact on segregation, but also: (a) members of other groups (Hispanics and African-Americans in this example); and (b) those simulation awardees whose race could not be determined (“race refused”).

9. So, for example, in Dr. Siskin’s presentation of the scaled results⁵ for W vs. A where community preference was in effect, he shows “no effect” for 8,522 of 9,157 awardees, even though 6,855 were “not in group” because they were Hispanic or African-American, and another 653 were “race refused.” That is, only 11.9 percent of what Dr. Siskin describes as “no effect” awardees in the W vs. A pairing is actually either White or Asian. The other 88.1 percent could not by definition be part of or relevant to the W vs. A pairing.

10. Dr. Siskin’s error in connection with mishandling who was eligible to be selected for community preference also infected the simulation he had run across all 168 lotteries (10,245 awardees). I corrected for his error; the results of my running 1,000 simulations where community preference was in effect was presented at Dr. Siskin’s November 15, 2019 deposition.⁶ The exhibit disaggregated both by neighborhood typology and between insiders and outsiders.

11. In a further December 13, 2019 amendment to Dr. Siskin’s opposition report, he has corrected the programming error identified, and has made other changes to his programming as well. His corrected data are what underlie his Table 3, at 39.

⁵ Note that, for most race pairs, the non-scaled counts for the various categories shown in the Exhibit 1 do not sum precisely to the 9,157,000 awardees in the “has CB” branch of Dr. Siskin’s simulation results file. That is because, when his Table 7.py program processes his “brn_lottery_simulation_results_beveridge_impact_pinsider_subfix.csv” file, an extremely small number of simulated awardees – not material to Dr. Siskin’s results or to my disaggregation of them – are not tabulated.

⁶ See plaintiffs’ Exhibit 351.

12. In the December 20, 2019 errata to his deposition, Dr. Siskin stated, cryptically, that Exhibit 351 “was “not a correct representation of my simulation corrected for the error in determining the CP and non-CP population.”⁷

13. So as to match Dr. Siskin’s updated data, I have taken the results of Dr. Siskin’s most recent simulation across all 168 lotteries and updated Exhibit 351 to reflect those results. I have disaggregated both by neighborhood status and by whether Dr. Siskin has characterized an award as CB or other than CB (HV, NP, etc.). *See* Exhibit 2, annexed hereto. Part of that Exhibit is Table 1, which is intended to replace Table 1 on page 9 of my October 27, 2019 amended reply report. The first full sentence on that page 9 should read, “In the majority White CD typology in the simulations, the detriments to Blacks (approximately 61 percent) is paired with a benefit of approximately 146 percent for Whites.

14. Dr. Siskin was also obliged to correct errors in his perpetuation of segregation analysis that dealt with actual lottery awards, as he acknowledged in his October 25, 2019 sur-reply, at 29-30. This was the three-part table that was labeled Table R6 in that sur-reply, at 31.

15. As I pointed out in my deposition errata of November 1, 2019,

We have confirmed that Dr. Siskin made the error described, as acknowledged when he recently amended page 56 (Table 6) of his already amended September 4th opposition report. His amendments to the awarded and apparent sections of the table are correct overall, as shown both by his method and an alternative method, the programming for which is separately being provided. However, he ran the “considered” section without updating it to reflect what he treats now as his “best estimate” of “considered.” The addendum attached shows the results for all three sections of the table, using for “considered” Dr. Siskin’s current best estimate, reporting the intermediate (not scaled) results for “considered” and apparent that Dr. Siskin chose not to include in his report, and distinguishing between those who are CP beneficiaries and those who are not. Across the sections of the tables and across the six different pairings, the results for CP beneficiaries – by number, net number, percentage, and net percentage – are significantly less integrative (i.e., perpetuate segregation

⁷ *See* Dec. 20, 2019 Siskin Deposition errata, at 118:20 and 119:17.

more) than the results for non-beneficiaries.

16. In his December 13, 2019 amendments to his amended opposition report and his amended sur-reply report, Dr. Siskin presents new results for the “considered” portion of his analysis (Section 2) in two versions: for his “best estimate,” Table 6 in the December 13, 2019 amended opposition report, at 57; for his “sensitivity” analysis, Table SR7 in the December 13, 2019 amended sur-reply report, at 29). The results for Section 3 have also changed marginally. The “integration results” table that underlies his analysis has also been modified.

17. I disaggregated the results of the new Table 6, and annex hereto as Exhibit 3 a new version of the addendum that accompanied my errata. I also disaggregated the results of the new Table SR7 and attach hereto as Exhibit 4 another new version of the addendum. The difference between the two is that Exhibit 3’s Section 2 shows the latest “best estimate” version, and Exhibit 4’s Section 2 reflects the latest “sensitivity” version of considered. As before, the results for CP beneficiaries are significantly less integrative (*i.e.*, perpetuate segregation more) than the results for non-beneficiaries.

18. The latest changes that Dr. Siskin made to his calculations of considered⁸ also required him to provide updated versions of his regressions (reported as Tables SR5 and SR6 in his December 13, 2019 amended sur-reply, at 26 and 27). I had previously taken his regressions and run them only for those who were *not* partially closed out (plaintiffs’ Exhibit 342 for Dr. Siskin’s best estimate, and plaintiffs’ Exhibit 343 for Dr. Siskin’s “sensitivity” analysis).⁹ Annexed hereto as Exhibits 5 and 6 are updated versions of Exhibits 342 and 343, respectively, reflecting Dr.

⁸ These changes do not alter the uncontested fact that the vast majority of those partially closed out when reached by a developer, as well as the vast majority of those fully closed out when reached by a developer, are non- CB beneficiaries.

⁹ Presented and discussed at the November 15, 2019 deposition of Dr. Siskin.

Siskin’s latest reductions in the numbers of applicants under both his “best estimate” and “sensitivity” models.

19. What had started out as those with CP having a 592.54 percent increase in probability of being found “interested and qualified,”¹⁰ is now a 54.05 percent for those not partially closed out under the “best estimate” model, and 28.25 percent for those not partially closed out under the “sensitivity” model.

Dated: January 27, 2020



Andrew A. Beveridge

¹⁰ See Siskin Opposition Report, June 4, 2019, at 33.

Ex 1 - Siskin 12/13/19 amended perpetuation of segregation simulation (CP in effect), disaggregated CB vs. non-CB awards

SCALED*													
Groups**	Effect		pref=CB***	Number	Net		pref=CB***	Number	Net		pref=CB	Number	Net
W vs AA	Segregate		0	134	-425		1	48	-126		Any	182	-551
W vs AA	No Effect		0	1,344			1	1,813			Any	3,157	
W vs AA	Integrate		0	559			1	174			Any	733	
W vs AA	Not In Group		0	2,241			1	2,192			Any	4,433	
W vs AA	Race Refused		0	319			1	333			Any	653	
W vs. A	Segregate		0	106	-179		1	88	-69		Any	194	-248
W vs. A	No Effect		0	370			1	644			Any	1,014	
W vs. A	Integrate		0	285			1	157			Any	441	
W vs. A	Not In Group		0	3,517			1	3,338			Any	6,855	
W vs. A	Race Refused		0	319			1	333			Any	653	
W vs. H	Segregate		0	202	-350		1	124	-215		Any	325	-565
W vs. H	No Effect		0	1,341			1	1,761			Any	3,102	
W vs. H	Integrate		0	551			1	339			Any	890	
W vs. H	Not In Group		0	2,184			1	2,004			Any	4,187	
W vs. H	Race Refused		0	319			1	333			Any	653	
AA vs. H	Segregate		0	457	-531		1	228	-69		Any	686	-600
AA vs. H	No Effect		0	1,760			1	2,531			Any	4,291	
AA vs. H	Integrate		0	988			1	297			Any	1,285	
AA vs. H	Not In Group		0	1,072			1	1,170			Any	2,242	
AA vs. H	Race Refused		0	319			1	333			Any	653	
AA vs. A	Segregate		0	116	-444		1	40	-92		Any	156	-536
AA vs. A	No Effect		0	1,195			1	1,551			Any	2,746	
AA vs. A	Integrate		0	560			1	132			Any	692	
AA vs. A	Not In Group		0	2,406			1	2,504			Any	4,909	
AA vs. A	Race Refused		0	319			1	333			Any	653	
H vs. A	Segregate		0	176	-323		1	58	-198		Any	234	-521
H vs. A	No Effect		0	1,255			1	1,597			Any	2,852	
H vs. A	Integrate		0	499			1	256			Any	755	
H vs. A	Not In Group		0	2,348			1	2,315			Any	4,663	
H vs. A	Race Refused		0	319			1	333			Any	653	
* Consistent with the Siskin table calculations, a scale factor was applied to the raw data													
Scale:	1000												
** Race from Beveridge_replace_race													
*** 1 means "Preference" value in Siskin simulation results was CB. 0 means a value not-CB													

NOT SCALED													
Groups	Effect		pref=CB	Number	Net		pref=CB	Number	Net		pref=CB	Number	Net
W vs AA	Segregate		0	133,568	-425,171		1	47,982	-125,801		Any	181,550	-550,972
W vs AA	No Effect		0	1,344,122			1	1,812,936			Any	3,157,058	
W vs AA	Integrate		0	558,739			1	173,783			Any	732,522	
W vs AA	Not In Group		0	2,241,041			1	2,191,990			Any	4,433,031	
W vs AA	Race Refused		0	319,285			1	333,401			Any	652,686	
W vs. A	Segregate		0	105,812	-178,714		1	87,958	-68,995		Any	193,770	-247,709
W vs. A	No Effect		0	370,251			1	644,137			Any	1,014,388	
W vs. A	Integrate		0	284,526			1	156,953			Any	441,479	
W vs. A	Not In Group		0	3,516,987			1	3,337,690			Any	6,854,677	
W vs. A	Race Refused		0	319,285			1	333,401			Any	652,686	
W vs. H	Segregate		0	201,521	-349,875		1	123,718	-215,080		Any	325,239	-564,955
W vs. H	No Effect		0	1,340,947			1	1,760,560			Any	3,101,507	
W vs. H	Integrate		0	551,396			1	338,798			Any	890,194	
W vs. H	Not In Group		0	2,183,624			1	2,003,530			Any	4,187,154	
W vs. H	Race Refused		0	319,285			1	333,401			Any	652,686	
AA vs. H	Segregate		0	457,313	-530,630		1	228,316	-68,976		Any	685,629	-599,606
AA vs. H	No Effect		0	1,759,939			1	2,531,355			Any	4,291,294	
AA vs. H	Integrate		0	987,943			1	297,292			Any	1,285,235	
AA vs. H	Not In Group		0	1,072,187			1	1,169,596			Any	2,241,783	
AA vs. H	Race Refused		0	319,285			1	333,401			Any	652,686	
AA vs. A	Segregate		0	116,408	-443,787		1	39,792	-92,294		Any	156,200	-536,081
AA vs. A	No Effect		0	1,195,317			1	1,551,057			Any	2,746,374	
AA vs. A	Integrate		0	560,195			1	132,086			Any	692,281	
AA vs. A	Not In Group		0	2,405,550			1	2,503,756			Any	4,909,306	
AA vs. A	Race Refused		0	319,285			1	333,401			Any	652,686	
H vs. A	Segregate		0	175,649	-323,330		1	58,118	-197,830		Any	233,767	-521,160
H vs. A	No Effect		0	1,254,727			1	1,597,244			Any	2,851,971	
H vs. A	Integrate		0	498,979			1	255,948			Any	754,927	
H vs. A	Not In Group		0	2,348,133			1	2,315,296			Any	4,663,429	
H vs. A	Race Refused		0	319,285			1	333,401			Any	652,686	

NOT-SCALED RESULTS TRANSLATED TO PERCENTAGES															
Groups	Effect*		pref=CB	Percent	Net		pref=CB	Percent	Net		pref=CB	Percent	Net	cb net % as percentage of non-cb net %	non-cb net % as percentage of cb net %
W vs AA	Segregate		0	6.56%	-20.88%		1	2.36%	-6.18%		Any	4.46%	-13.53%	29.61%	337.68%
W vs AA	No Effect		0	66.00%			1	89.10%			Any	77.55%			
W vs AA	Integrate		0	27.44%			1	8.54%			Any	17.99%			
W vs. A	Segregate		0	13.91%	-23.50%		1	9.89%	-7.76%		Any	11.75%	-15.02%	33.03%	302.77%
W vs. A	No Effect		0	48.68%			1	72.45%			Any	61.49%			
W vs. A	Integrate		0	37.41%			1	17.65%			Any	26.76%			
W vs. H	Segregate		0	9.62%	-16.71%		1	5.57%	-9.67%		Any	7.53%	-13.09%	57.90%	172.71%
W vs. H	No Effect		0	64.04%			1	79.19%			Any	71.85%			
W vs. H	Integrate		0	26.33%			1	15.24%			Any	20.62%			
AA vs. H	Segregate		0	14.27%	-16.56%		1	7.47%	-2.26%		Any	10.95%	-9.58%	13.63%	733.72%
AA vs. H	No Effect		0	54.91%			1	82.81%			Any	68.53%			
AA vs. H	Integrate		0	30.82%			1	9.73%			Any	20.52%			
AA vs. A	Segregate		0	6.22%	-23.71%		1	2.31%	-5.36%		Any	4.35%	-14.91%	22.60%	442.57%
AA vs. A	No Effect		0	63.86%			1	90.02%			Any	76.40%			
AA vs. A	Integrate		0	29.93%			1	7.67%			Any	19.26%			
H vs. A	Segregate		0	9.10%	-16.76%		1	3.04%	-10.35%		Any	6.09%	-13.57%	61.76%	161.91%
H vs. A	No Effect		0	65.03%			1	83.57%			Any	74.26%			
H vs. A	Integrate		0	25.86%			1	13.39%			Any	19.66%			
* "Not in group" and "Race refused" not included in calculation															

**Ex 2 - Siskin 12/13/19 amended 168-lottery simulation (disparate impact),
disaggregated by neighborhood typology and CB vs. non-CB award**

Counts								
CD Typology	Pref=CB*	White	Black	Hispanic	Asian	Other	Race Refused	Total
Maj nh_White	0	126,227	332,038	337,532	84,315	70,808	65,582	1,016,502
Maj nh_black	0	57,407	484,833	411,411	61,381	75,928	68,981	1,159,941
Maj hispanic	0	46,871	552,246	616,037	52,015	78,177	76,753	1,422,099
Maj nh_asian	0	3,402	23,220	24,226	12,446	4,014	5,306	72,614
Plur nh_White	0	84,353	104,965	98,255	37,394	37,480	37,758	400,205
Plur nh_black	0	9,814	53,116	49,786	7,506	9,619	7,884	137,725
Plur hispanic	0	161,111	251,641	285,971	75,176	72,545	89,225	935,669
SubTotal		489,185	1,802,059	1,823,218	330,233	348,571	351,489	5,144,755
Maj nh_White	1	309,374	128,232	356,466	73,721	66,573	80,132	1,014,498
Maj nh_black	1	20,271	693,709	271,162	19,142	68,961	74,814	1,148,059
Maj hispanic	1	12,722	505,984	756,777	14,170	53,945	66,303	1,409,901
Maj nh_asian	1	1,231	2,407	8,426	47,981	4,739	4,602	69,386
Plur nh_White	1	83,529	128,405	81,779	29,823	35,785	38,474	397,795
Plur nh_black	1	7,446	75,040	33,414	1,755	9,739	8,881	136,275
Plur hispanic	1	175,272	170,316	310,498	112,411	67,058	88,776	924,331
SubTotal		609,845	1,704,093	1,818,522	299,003	306,800	361,982	5,100,245
Total		1,099,030	3,506,152	3,641,740	629,236	655,371	713,471	10,245,000
Percentages								
CD Typology	Pref=CB*	White	Black	Hispanic	Asian	Other	Race Refused	Total
Maj nh_White	0	12.42%	32.66%	33.21%	8.29%	6.97%	6.45%	100%
Maj nh_black	0	4.95%	41.80%	35.47%	5.29%	6.55%	5.95%	100%
Maj hispanic	0	3.30%	38.83%	43.32%	3.66%	5.50%	5.40%	100%
Maj nh_asian	0	4.69%	31.98%	33.36%	17.14%	5.53%	7.31%	100%
Plur nh_White	0	21.08%	26.23%	24.55%	9.34%	9.37%	9.43%	100%
Plur nh_black	0	7.13%	38.57%	36.15%	5.45%	6.98%	5.72%	100%
Plur hispanic	0	17.22%	26.89%	30.56%	8.03%	7.75%	9.54%	100%
SubTotal		9.51%	35.03%	35.44%	6.42%	6.78%	6.83%	100%
Maj nh_White	1	30.50%	12.64%	35.14%	7.27%	6.56%	7.90%	100%
Maj nh_black	1	1.77%	60.42%	23.62%	1.67%	6.01%	6.52%	100%
Maj hispanic	1	0.90%	35.89%	53.68%	1.01%	3.83%	4.70%	100%
Maj nh_asian	1	1.77%	3.47%	12.14%	69.15%	6.83%	6.63%	100%
Plur nh_White	1	21.00%	32.28%	20.56%	7.50%	9.00%	9.67%	100%
Plur nh_black	1	5.46%	55.07%	24.52%	1.29%	7.15%	6.52%	100%
Plur hispanic	1	18.96%	18.43%	33.59%	12.16%	7.25%	9.60%	100%
SubTotal		11.96%	33.41%	35.66%	5.86%	6.02%	7.10%	100%
Total		10.73%	34.22%	35.55%	6.14%	6.40%	6.96%	100%
* 1 means "Preference" value in Siskin simulation results was CB. 0 means a value not-CB								

Defendant's Simulation Confirms Disparate Racial Results of Policy

Table 1 - Relative percentage change for each group from share of nonbeneficiary simulated awardees to share of CP beneficiary simulated awardees, by CD typology

CD Typology	White	Black	Hispanic	Asian
Maj nh_White	145.58%	-61.30%	5.82%	-12.39%
Maj nh_black	-64.32%	44.56%	-33.41%	-68.49%
Maj hispanic	-72.62%	-7.58%	23.91%	-72.52%
Maj nh_asian	-62.13%	-89.15%	-63.60%	303.45%
Plur nh_White	-0.38%	23.07%	-16.26%	-19.76%
Plur nh_black	-23.32%	42.78%	-32.17%	-76.37%
Plur hispanic	10.12%	-31.49%	9.91%	51.36%

**Ex 3 - Siskin 12/13/19 amended opposition report Table 6,
disaggregated by outsiders versus insiders**

Section 1 (counts)

Groups	Effect	Number	all_cb*	Net		Groups	Effect	Number	all_cb*	Net		Groups	Effect	Number	all_cb*	Net
W vs. AA	Segregate	151	0	-299		W vs. AA	Segregate	52	1	-84		W vs. AA	Segregate	203	Any	-383
W vs. AA	No Effect	1474	0			W vs. AA	No Effect	1594	1			W vs. AA	No Effect	3068	Any	
W vs. AA	Integrate	450	0			W vs. AA	Integrate	136	1			W vs. AA	Integrate	586	Any	
W vs. AA	Not In Group	2313	0			W vs. AA	Not In Group	2054	1			W vs. AA	Not In Group	4367	Any	
W vs. A	Segregate	144	0	-114		W vs. A	Segregate	83	1	-57		W vs. A	Segregate	227	Any	-171
W vs. A	No Effect	408	0			W vs. A	No Effect	660	1			W vs. A	No Effect	1068	Any	
W vs. A	Integrate	258	0			W vs. A	Integrate	140	1			W vs. A	Integrate	398	Any	
W vs. A	Not In Group	3578	0			W vs. A	Not In Group	2953	1			W vs. A	Not In Group	6531	Any	
W vs. H	Segregate	205	0	-285		W vs. H	Segregate	107	1	-179		W vs. H	Segregate	312	Any	-464
W vs. H	No Effect	1487	0			W vs. H	No Effect	1684	1			W vs. H	No Effect	3171	Any	
W vs. H	Integrate	490	0			W vs. H	Integrate	286	1			W vs. H	Integrate	776	Any	
W vs. H	Not In Group	2206	0			W vs. H	Not In Group	1759	1			W vs. H	Not In Group	3965	Any	
AA vs. H	Segregate	485	0	-399		AA vs. H	Segregate	212	1	-42		AA vs. H	Segregate	697	Any	-441
AA vs. H	No Effect	1928	0			AA vs. H	No Effect	2237	1			AA vs. H	No Effect	4165	Any	
AA vs. H	Integrate	884	0			AA vs. H	Integrate	254	1			AA vs. H	Integrate	1138	Any	
AA vs. H	Not In Group	1091	0			AA vs. H	Not In Group	1133	1			AA vs. H	Not In Group	2224	Any	
AA vs. A	Segregate	132	0	-316		AA vs. A	Segregate	44	1	-63		AA vs. A	Segregate	176	Any	-379
AA vs. A	No Effect	1345	0			AA vs. A	No Effect	1358	1			AA vs. A	No Effect	2703	Any	
AA vs. A	Integrate	448	0			AA vs. A	Integrate	107	1			AA vs. A	Integrate	555	Any	
AA vs. A	Not In Group	2463	0			AA vs. A	Not In Group	2327	1			AA vs. A	Not In Group	4790	Any	
H vs. A	Segregate	182	0	-229		H vs. A	Segregate	55	1	-182		H vs. A	Segregate	237	Any	-411
H vs. A	No Effect	1439	0			H vs. A	No Effect	1512	1			H vs. A	No Effect	2951	Any	
H vs. A	Integrate	411	0			H vs. A	Integrate	237	1			H vs. A	Integrate	648	Any	
H vs. A	Not In Group	2356	0			H vs. A	Not In Group	2032	1			H vs. A	Not In Group	4388	Any	

* all_cb was determined by joining against "beverage_awd_unit_type" using field "all_cb"

Section 1 (percentages)

Groups	Effect*	Percentage	all_cb	Net	Groups	Effect*	Percentage	all_cb	Net	Groups	Effect*	Percentage	all_cb	Net	Relative percentage**
W vs. AA	Segregate	7.28%	0	-14.41%	W vs. AA	Segregate	2.92%	1	-4.71%	W vs. AA	Segregate	5.26%	Any	-9.93%	32.71%
W vs. AA	No Effect	71.04%	0		W vs. AA	No Effect	89.45%	1		W vs. AA	No Effect	79.54%	Any		
W vs. AA	Integrate	21.69%	0		W vs. AA	Integrate	7.63%	1		W vs. AA	Integrate	15.19%	Any		
W vs. AA	Not In Group	N/A	0		W vs. AA	Not In Group	N/A	1		W vs. AA	Not In Group	N/A	Any		
W vs. A	Segregate	17.78%	0	-14.07%	W vs. A	Segregate	9.40%	1	-6.46%	W vs. A	Segregate	13.41%	Any	-10.10%	45.87%
W vs. A	No Effect	50.37%	0		W vs. A	No Effect	74.75%	1		W vs. A	No Effect	63.08%	Any		
W vs. A	Integrate	31.85%	0		W vs. A	Integrate	15.86%	1		W vs. A	Integrate	23.51%	Any		
W vs. A	Not In Group	N/A	0		W vs. A	Not In Group	N/A	1		W vs. A	Not In Group	N/A	Any		
W vs. H	Segregate	9.40%	0	-13.06%	W vs. H	Segregate	5.15%	1	-8.62%	W vs. H	Segregate	7.33%	Any	-10.89%	65.98%
W vs. H	No Effect	68.15%	0		W vs. H	No Effect	81.08%	1		W vs. H	No Effect	74.45%	Any		
W vs. H	Integrate	22.46%	0		W vs. H	Integrate	13.77%	1		W vs. H	Integrate	18.22%	Any		
W vs. H	Not In Group	N/A	0		W vs. H	Not In Group	N/A	1		W vs. H	Not In Group	N/A	Any		
AA vs. H	Segregate	14.71%	0	-12.10%	AA vs. H	Segregate	7.84%	1	-1.55%	AA vs. H	Segregate	11.62%	Any	-7.35%	12.84%
AA vs. H	No Effect	58.48%	0		AA vs. H	No Effect	82.76%	1		AA vs. H	No Effect	69.42%	Any		
AA vs. H	Integrate	26.81%	0		AA vs. H	Integrate	9.40%	1		AA vs. H	Integrate	18.97%	Any		
AA vs. H	Not In Group	N/A	0		AA vs. H	Not In Group	N/A	1		AA vs. H	Not In Group	N/A	Any		
AA vs. A	Segregate	6.86%	0	-16.42%	AA vs. A	Segregate	2.92%	1	-4.17%	AA vs. A	Segregate	5.13%	Any	-11.04%	25.43%
AA vs. A	No Effect	69.87%	0		AA vs. A	No Effect	89.99%	1		AA vs. A	No Effect	78.71%	Any		
AA vs. A	Integrate	23.27%	0		AA vs. A	Integrate	7.09%	1		AA vs. A	Integrate	16.16%	Any		
AA vs. A	Not In Group	N/A	0		AA vs. A	Not In Group	N/A	1		AA vs. A	Not In Group	N/A	Any		
H vs. A	Segregate	8.96%	0	-11.27%	H vs. A	Segregate	3.05%	1	-10.09%	H vs. A	Segregate	6.18%	Any	-10.71%	89.52%
H vs. A	No Effect	70.82%	0		H vs. A	No Effect	83.81%	1		H vs. A	No Effect	76.93%	Any		
H vs. A	Integrate	20.23%	0		H vs. A	Integrate	13.14%	1		H vs. A	Integrate	16.89%	Any		
H vs. A	Not In Group	N/A	0		H vs. A	Not In Group	N/A	1		H vs. A	Not In Group	N/A	Any		
* "Not in group" not included in calculation															
**CP beneficiary net percentage as percentage of non-beneficiary net percentage															

Section 2 (counts)

SCALED*														
Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net
W vs. AA Section 2	Segregate	225	0	-804	W vs. AA Section 2	Segregate	17	1	-40	W vs. AA Section 2	Segregate	242	Any	-844
W vs. AA Section 2	No Effect	2122	0		W vs. AA Section 2	No Effect	543	1		W vs. AA Section 2	No Effect	2665	Any	
W vs. AA Section 2	Integrate	1029	0		W vs. AA Section 2	Integrate	57	1		W vs. AA Section 2	Integrate	1086	Any	
W vs. AA Section 2	Not In Group	3570	0		W vs. AA Section 2	Not In Group	661	1		W vs. AA Section 2	Not In Group	4231	Any	
W vs. A Section 2	Segregate	144	0	-179	W vs. A Section 2	Segregate	26	1	-11	W vs. A Section 2	Segregate	170	Any	-189
W vs. A Section 2	No Effect	522	0		W vs. A Section 2	No Effect	175	1		W vs. A Section 2	No Effect	697	Any	
W vs. A Section 2	Integrate	322	0		W vs. A Section 2	Integrate	37	1		W vs. A Section 2	Integrate	360	Any	
W vs. A Section 2	Not In Group	5958	0		W vs. A Section 2	Not In Group	1039	1		W vs. A Section 2	Not In Group	6997	Any	
W vs. H Section 2	Segregate	326	0	-623	W vs. H Section 2	Segregate	34	1	-72	W vs. H Section 2	Segregate	359	Any	-695
W vs. H Section 2	No Effect	2022	0		W vs. H Section 2	No Effect	518	1		W vs. H Section 2	No Effect	2540	Any	
W vs. H Section 2	Integrate	948	0		W vs. H Section 2	Integrate	106	1		W vs. H Section 2	Integrate	1054	Any	
W vs. H Section 2	Not In Group	3650	0		W vs. H Section 2	Not In Group	621	1		W vs. H Section 2	Not In Group	4271	Any	
AA vs. H Section 2	Segregate	759	0	-989	AA vs. H Section 2	Segregate	63	1	-23	AA vs. H Section 2	Segregate	823	Any	-1013
AA vs. H Section 2	No Effect	2969	0		AA vs. H Section 2	No Effect	805	1		AA vs. H Section 2	No Effect	3775	Any	
AA vs. H Section 2	Integrate	1749	0		AA vs. H Section 2	Integrate	87	1		AA vs. H Section 2	Integrate	1835	Any	
AA vs. H Section 2	Not In Group	1468	0		AA vs. H Section 2	Not In Group	323	1		AA vs. H Section 2	Not In Group	1791	Any	
AA vs. A Section 2	Segregate	202	0	-791	AA vs. A Section 2	Segregate	12	1	-26	AA vs. A Section 2	Segregate	214	Any	-817
AA vs. A Section 2	No Effect	1974	0		AA vs. A Section 2	No Effect	487	1		AA vs. A Section 2	No Effect	2460	Any	
AA vs. A Section 2	Integrate	993	0		AA vs. A Section 2	Integrate	38	1		AA vs. A Section 2	Integrate	1032	Any	
AA vs. A Section 2	Not In Group	3776	0		AA vs. A Section 2	Not In Group	741	1		AA vs. A Section 2	Not In Group	4517	Any	
H vs. A Section 2	Segregate	305	0	-493	H vs. A Section 2	Segregate	18	1	-59	H vs. A Section 2	Segregate	323	Any	-552
H vs. A Section 2	No Effect	1988	0		H vs. A Section 2	No Effect	482	1		H vs. A Section 2	No Effect	2470	Any	
H vs. A Section 2	Integrate	798	0		H vs. A Section 2	Integrate	77	1		H vs. A Section 2	Integrate	874	Any	
H vs. A Section 2	Not In Group	3856	0		H vs. A Section 2	Not In Group	702	1		H vs. A Section 2	Not In Group	4557	Any	
* Consistent with the Siskin table calculations, section 2 was scaled to match the population size of section 1. i.e a scale factor was applied to the raw data														
Scale:	34.20245623													
** cd_pref was determined by joining against "apar_base_hh_fix_new" using field "CD_PREF"														

Section 2 (counts)

NOT SCALED														
Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net
W vs. AA Section 2	Segregate	7706	0	-27484	W vs. AA Section 2	Segregate	579	1	-1376	W vs. AA Section 2	Segregate	8285	Any	-28860
W vs. AA Section 2	No Effect	72564	0		W vs. AA Section 2	No Effect	18587	1		W vs. AA Section 2	No Effect	91151	Any	
W vs. AA Section 2	Integrate	35190	0		W vs. AA Section 2	Integrate	1955	1		W vs. AA Section 2	Integrate	37145	Any	
W vs. AA Section 2	Not In Group	122104	0		W vs. AA Section 2	Not In Group	22596	1		W vs. AA Section 2	Not In Group	144700	Any	
W vs. A Section 2	Segregate	4917	0	-6108	W vs. A Section 2	Segregate	904	1	-372	W vs. A Section 2	Segregate	5821	Any	-6480
W vs. A Section 2	No Effect	17856	0		W vs. A Section 2	No Effect	5993	1		W vs. A Section 2	No Effect	23849	Any	
W vs. A Section 2	Integrate	11025	0		W vs. A Section 2	Integrate	1276	1		W vs. A Section 2	Integrate	12301	Any	
W vs. A Section 2	Not In Group	203766	0		W vs. A Section 2	Not In Group	35544	1		W vs. A Section 2	Not In Group	239310	Any	
W vs. H Section 2	Segregate	11133	0	-21297	W vs. H Section 2	Segregate	1155	1	-2470	W vs. H Section 2	Segregate	12288	Any	-23767
W vs. H Section 2	No Effect	69174	0		W vs. H Section 2	No Effect	17701	1		W vs. H Section 2	No Effect	86875	Any	
W vs. H Section 2	Integrate	32430	0		W vs. H Section 2	Integrate	3625	1		W vs. H Section 2	Integrate	36055	Any	
W vs. H Section 2	Not In Group	124827	0		W vs. H Section 2	Not In Group	21236	1		W vs. H Section 2	Not In Group	146063	Any	
AA vs. H Section 2	Segregate	25974	0	-33841	AA vs. H Section 2	Segregate	2164	1	-796	AA vs. H Section 2	Segregate	28138	Any	-34637
AA vs. H Section 2	No Effect	101562	0		AA vs. H Section 2	No Effect	27546	1		AA vs. H Section 2	No Effect	129108	Any	
AA vs. H Section 2	Integrate	59815	0		AA vs. H Section 2	Integrate	2960	1		AA vs. H Section 2	Integrate	62775	Any	
AA vs. H Section 2	Not In Group	50213	0		AA vs. H Section 2	Not In Group	11047	1		AA vs. H Section 2	Not In Group	61260	Any	
AA vs. A Section 2	Segregate	6925	0	-27049	AA vs. A Section 2	Segregate	411	1	-898	AA vs. A Section 2	Segregate	7336	Any	-27947
AA vs. A Section 2	No Effect	67513	0		AA vs. A Section 2	No Effect	16642	1		AA vs. A Section 2	No Effect	84155	Any	
AA vs. A Section 2	Integrate	33974	0		AA vs. A Section 2	Integrate	1309	1		AA vs. A Section 2	Integrate	35283	Any	
AA vs. A Section 2	Not In Group	129152	0		AA vs. A Section 2	Not In Group	25355	1		AA vs. A Section 2	Not In Group	154507	Any	
H vs. A Section 2	Segregate	10416	0	-16864	H vs. A Section 2	Segregate	619	1	-2007	H vs. A Section 2	Segregate	11035	Any	-18871
H vs. A Section 2	No Effect	67993	0		H vs. A Section 2	No Effect	16477	1		H vs. A Section 2	No Effect	84470	Any	
H vs. A Section 2	Integrate	27280	0		H vs. A Section 2	Integrate	2626	1		H vs. A Section 2	Integrate	29906	Any	
H vs. A Section 2	Not In Group	131875	0		H vs. A Section 2	Not In Group	23995	1		H vs. A Section 2	Not In Group	155870	Any	

Section 2 (percentages)

NOT-SCALED RESULTS TRANSLATED TO PERCENTAGES																			
Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect*	Percentage	cd_pref	Net	Relative percentage**				
W vs. AA Section 2	Segregate	6.67%	0	-23.80%	W vs. AA Section 2	Segregate	2.74%	1	-6.51%	W vs. AA Section 2	Segregate	6.07%	Any	-21.13%	27.37%				
W vs. AA Section 2	No Effect	62.85%	0		W vs. AA Section 2	No Effect	88.00%	1		W vs. AA Section 2	No Effect	66.74%	Any						
W vs. AA Section 2	Integrate	30.48%	0		W vs. AA Section 2	Integrate	9.26%	1		W vs. AA Section 2	Integrate	27.20%	Any						
W vs. AA Section 2	Not In Group	N/A	0		W vs. AA Section 2	Not In Group	N/A	1		W vs. AA Section 2	Not In Group	N/A	Any						
W vs. A Section 2	Segregate	14.55%	0	-18.07%	W vs. A Section 2	Segregate	11.06%	1	-4.55%	W vs. A Section 2	Segregate	13.87%	Any	-15.44%	25.19%				
W vs. A Section 2	No Effect	52.83%	0		W vs. A Section 2	No Effect	73.33%	1		W vs. A Section 2	No Effect	56.82%	Any						
W vs. A Section 2	Integrate	32.62%	0		W vs. A Section 2	Integrate	15.61%	1		W vs. A Section 2	Integrate	29.31%	Any						
W vs. A Section 2	Not In Group	N/A	0		W vs. A Section 2	Not In Group	N/A	1		W vs. A Section 2	Not In Group	N/A	Any						
W vs. H Section 2	Segregate	9.88%	0	-18.89%	W vs. H Section 2	Segregate	5.14%	1	-10.99%	W vs. H Section 2	Segregate	9.09%	Any	-17.58%	58.16%				
W vs. H Section 2	No Effect	61.36%	0		W vs. H Section 2	No Effect	78.74%	1		W vs. H Section 2	No Effect	64.25%	Any						
W vs. H Section 2	Integrate	28.77%	0		W vs. H Section 2	Integrate	16.12%	1		W vs. H Section 2	Integrate	26.66%	Any						
W vs. H Section 2	Not In Group	N/A	0		W vs. H Section 2	Not In Group	N/A	1		W vs. H Section 2	Not In Group	N/A	Any						
AA vs. H Section 2	Segregate	13.86%	0	-18.06%	AA vs. H Section 2	Segregate	6.62%	1	-2.44%	AA vs. H Section 2	Segregate	12.79%	Any	-15.74%	13.49%				
AA vs. H Section 2	No Effect	54.21%	0		AA vs. H Section 2	No Effect	84.32%	1		AA vs. H Section 2	No Effect	58.68%	Any						
AA vs. H Section 2	Integrate	31.93%	0		AA vs. H Section 2	Integrate	9.06%	1		AA vs. H Section 2	Integrate	28.53%	Any						
AA vs. H Section 2	Not In Group	N/A	0		AA vs. H Section 2	Not In Group	N/A	1		AA vs. H Section 2	Not In Group	N/A	Any						
AA vs. A Section 2	Segregate	6.39%	0	-24.95%	AA vs. A Section 2	Segregate	2.24%	1	-4.89%	AA vs. A Section 2	Segregate	5.79%	Any	-22.04%	19.60%				
AA vs. A Section 2	No Effect	62.27%	0		AA vs. A Section 2	No Effect	90.63%	1		AA vs. A Section 2	No Effect	66.38%	Any						
AA vs. A Section 2	Integrate	31.34%	0		AA vs. A Section 2	Integrate	7.13%	1		AA vs. A Section 2	Integrate	27.83%	Any						
AA vs. A Section 2	Not In Group	N/A	0		AA vs. A Section 2	Not In Group	N/A	1		AA vs. A Section 2	Not In Group	N/A	Any						
H vs. A Section 2	Segregate	9.86%	0	-15.96%	H vs. A Section 2	Segregate	3.14%	1	-10.18%	H vs. A Section 2	Segregate	8.80%	Any	-15.05%	63.78%				
H vs. A Section 2	No Effect	64.33%	0		H vs. A Section 2	No Effect	83.55%	1		H vs. A Section 2	No Effect	67.35%	Any						
H vs. A Section 2	Integrate	25.81%	0		H vs. A Section 2	Integrate	13.32%	1		H vs. A Section 2	Integrate	23.85%	Any						
H vs. A Section 2	Not In Group	N/A	0		H vs. A Section 2	Not In Group	N/A	1		H vs. A Section 2	Not In Group	N/A	Any						
* "Not in group" not included in calculation																			
**CP beneficiary net percentage as percentage of non-beneficiary net percentage																			

Section 3 (counts)

SCALED*														
Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net
W vs. AA Section 3	Segregate	238	0	-1172	W vs. AA Section 3	Segregate	5	1	-18	W vs. AA Section 3	Segregate	243	Any	-1190
W vs. AA Section 3	No Effect	2114	0		W vs. AA Section 3	No Effect	171	1		W vs. AA Section 3	No Effect	2284	Any	
W vs. AA Section 3	Integrate	1410	0		W vs. AA Section 3	Integrate	24	1		W vs. AA Section 3	Integrate	1434	Any	
W vs. AA Section 3	Not In Group	4060	0		W vs. AA Section 3	Not In Group	203	1		W vs. AA Section 3	Not In Group	4263	Any	
W vs. A Section 3	Segregate	174	0	-210	W vs. A Section 3	Segregate	6	1	-2	W vs. A Section 3	Segregate	180	Any	-212
W vs. A Section 3	No Effect	592	0		W vs. A Section 3	No Effect	49	1		W vs. A Section 3	No Effect	641	Any	
W vs. A Section 3	Integrate	384	0		W vs. A Section 3	Integrate	8	1		W vs. A Section 3	Integrate	392	Any	
W vs. A Section 3	Not In Group	6672	0		W vs. A Section 3	Not In Group	339	1		W vs. A Section 3	Not In Group	7011	Any	
W vs. H Section 3	Segregate	353	0	-987	W vs. H Section 3	Segregate	11	1	-26	W vs. H Section 3	Segregate	364	Any	-1013
W vs. H Section 3	No Effect	2003	0		W vs. H Section 3	No Effect	152	1		W vs. H Section 3	No Effect	2156	Any	
W vs. H Section 3	Integrate	1340	0		W vs. H Section 3	Integrate	37	1		W vs. H Section 3	Integrate	1377	Any	
W vs. H Section 3	Not In Group	4125	0		W vs. H Section 3	Not In Group	202	1		W vs. H Section 3	Not In Group	4327	Any	
AA vs. H Section 3	Segregate	868	0	-1174	AA vs. H Section 3	Segregate	18	1	-7	AA vs. H Section 3	Segregate	886	Any	-1180
AA vs. H Section 3	No Effect	3242	0		AA vs. H Section 3	No Effect	272	1		AA vs. H Section 3	No Effect	3514	Any	
AA vs. H Section 3	Integrate	2042	0		AA vs. H Section 3	Integrate	25	1		AA vs. H Section 3	Integrate	2066	Any	
AA vs. H Section 3	Not In Group	1670	0		AA vs. H Section 3	Not In Group	88	1		AA vs. H Section 3	Not In Group	1758	Any	
AA vs. A Section 3	Segregate	207	0	-1145	AA vs. A Section 3	Segregate	4	1	-7	AA vs. A Section 3	Segregate	211	Any	-1152
AA vs. A Section 3	No Effect	2046	0		AA vs. A Section 3	No Effect	162	1		AA vs. A Section 3	No Effect	2208	Any	
AA vs. A Section 3	Integrate	1352	0		AA vs. A Section 3	Integrate	11	1		AA vs. A Section 3	Integrate	1363	Any	
AA vs. A Section 3	Not In Group	4217	0		AA vs. A Section 3	Not In Group	225	1		AA vs. A Section 3	Not In Group	4442	Any	
H vs. A Section 3	Segregate	328	0	-845	H vs. A Section 3	Segregate	7	1	-26	H vs. A Section 3	Segregate	335	Any	-871
H vs. A Section 3	No Effect	2038	0		H vs. A Section 3	No Effect	139	1		H vs. A Section 3	No Effect	2176	Any	
H vs. A Section 3	Integrate	1174	0		H vs. A Section 3	Integrate	33	1		H vs. A Section 3	Integrate	1206	Any	
H vs. A Section 3	Not In Group	4282	0		H vs. A Section 3	Not In Group	225	1		H vs. A Section 3	Not In Group	4506	Any	
* Consistent with the Siskin table calculations, section 3 was scaled to match the population size of section 1. i.e a scale factor was applied to the raw data														
Scale:		305.6420233												
** cd_pref was determined by joining against "apar_base_hh_fix_new" using field "CD_PREF"														

Section 3 (counts)

NOT SCALED														
Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net
W vs. AA Section 3	Segregate	72797	0	-358187	W vs. AA Section 3	Segregate	1618	1	-5609	W vs. AA Section 3	Segregate	74415	Any	-363796
W vs. AA Section 3	No Effect	645987	0		W vs. AA Section 3	No Effect	52171	1		W vs. AA Section 3	No Effect	698158	Any	
W vs. AA Section 3	Integrate	430984	0		W vs. AA Section 3	Integrate	7227	1		W vs. AA Section 3	Integrate	438211	Any	
W vs. AA Section 3	Not In Group	1240841	0		W vs. AA Section 3	Not In Group	61975	1		W vs. AA Section 3	Not In Group	1302816	Any	
W vs. A Section 3	Segregate	53278	0	-64058	W vs. A Section 3	Segregate	1838	1	-598	W vs. A Section 3	Segregate	55116	Any	-64656
W vs. A Section 3	No Effect	180866	0		W vs. A Section 3	No Effect	14988	1		W vs. A Section 3	No Effect	195854	Any	
W vs. A Section 3	Integrate	117336	0		W vs. A Section 3	Integrate	2436	1		W vs. A Section 3	Integrate	119772	Any	
W vs. A Section 3	Not In Group	2039129			W vs. A Section 3	Not In Group	103729	1		W vs. A Section 3	Not In Group	2142858	Any	
W vs. H Section 3	Segregate	108002	0	-301581	W vs. H Section 3	Segregate	3329	1	-8041	W vs. H Section 3	Segregate	111331	Any	-309622
W vs. H Section 3	No Effect	612327	0		W vs. H Section 3	No Effect	46498	1		W vs. H Section 3	No Effect	658825	Any	
W vs. H Section 3	Integrate	409583	0		W vs. H Section 3	Integrate	11370	1		W vs. H Section 3	Integrate	420953	Any	
W vs. H Section 3	Not In Group	1260697	0		W vs. H Section 3	Not In Group	61794	1		W vs. H Section 3	Not In Group	1322491	Any	
AA vs. H Section 3	Segregate	265344	0	-358681	AA vs. H Section 3	Segregate	5476	1	-2033	AA vs. H Section 3	Segregate	270820	Any	-360714
AA vs. H Section 3	No Effect	990859	0		AA vs. H Section 3	No Effect	83068	1		AA vs. H Section 3	No Effect	1073927	Any	
AA vs. H Section 3	Integrate	624025	0		AA vs. H Section 3	Integrate	7509	1		AA vs. H Section 3	Integrate	631534	Any	
AA vs. H Section 3	Not In Group	510381	0		AA vs. H Section 3	Not In Group	26938	1		AA vs. H Section 3	Not In Group	537319	Any	
AA vs. A Section 3	Segregate	63270	0	-349939	AA vs. A Section 3	Segregate	1148	1	-2273	AA vs. A Section 3	Segregate	64418	Any	-352212
AA vs. A Section 3	No Effect	625317	0		AA vs. A Section 3	No Effect	49549	1		AA vs. A Section 3	No Effect	674866	Any	
AA vs. A Section 3	Integrate	413209	0		AA vs. A Section 3	Integrate	3421	1		AA vs. A Section 3	Integrate	416630	Any	
AA vs. A Section 3	Not In Group	1288813	0		AA vs. A Section 3	Not In Group	68873	1		AA vs. A Section 3	Not In Group	1357686	Any	
H vs. A Section 3	Segregate	100362	0	-258359	H vs. A Section 3	Segregate	2002	1	-7941	H vs. A Section 3	Segregate	102364	Any	-266300
H vs. A Section 3	No Effect	622857	0		H vs. A Section 3	No Effect	42354	1		H vs. A Section 3	No Effect	665211	Any	
H vs. A Section 3	Integrate	358721	0		H vs. A Section 3	Integrate	9943	1		H vs. A Section 3	Integrate	368664	Any	
H vs. A Section 3	Not In Group	1308669	0		H vs. A Section 3	Not In Group	68692	1		H vs. A Section 3	Not In Group	1377361	Any	

Section 3 (percentages)

NOT-SCALED RESULTS TRANSLATED TO PERCENTAGES																			
Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect	Percentage	cd_pref	Net	Groups	Effect	Percentage	cd_pref	Net	Relative percentage**				
W vs. AA Section 3	Segregate	6.33%	0	-31.15%	W vs. AA Section 3	Segregate	2.65%	1	-9.19%	W vs. AA Section 3	Segregate	6.15%	Any	-30.05%	29.51%				
W vs. AA Section 3	No Effect	56.18%	0		W vs. AA Section 3	No Effect	85.50%	1		W vs. AA Section 3	No Effect	57.66%	Any						
W vs. AA Section 3	Integrate	37.48%	0		W vs. AA Section 3	Integrate	11.84%	1		W vs. AA Section 3	Integrate	36.19%	Any						
W vs. AA Section 3	Not In Group	N/A	0		W vs. AA Section 3	Not In Group	N/A	1		W vs. AA Section 3	Not In Group	N/A	Any						
W vs. A Section 3	Segregate	15.16%	0	-18.23%	W vs. A Section 3	Segregate	9.54%	1	-3.10%	W vs. A Section 3	Segregate	14.87%	Any	-17.44%	17.03%				
W vs. A Section 3	No Effect	51.46%	0		W vs. A Section 3	No Effect	77.81%	1		W vs. A Section 3	No Effect	52.83%	Any						
W vs. A Section 3	Integrate	33.38%	0		W vs. A Section 3	Integrate	12.65%	1		W vs. A Section 3	Integrate	32.31%	Any						
W vs. A Section 3	Not In Group	N/A			W vs. A Section 3	Not In Group	N/A	1		W vs. A Section 3	Not In Group	N/A	Any						
W vs. H Section 3	Segregate	9.56%	0	-26.69%	W vs. H Section 3	Segregate	5.44%	1	-13.14%	W vs. H Section 3	Segregate	9.35%	Any	-25.99%	49.23%				
W vs. H Section 3	No Effect	54.19%	0		W vs. H Section 3	No Effect	75.98%	1		W vs. H Section 3	No Effect	55.31%	Any						
W vs. H Section 3	Integrate	36.25%	0		W vs. H Section 3	Integrate	18.58%	1		W vs. H Section 3	Integrate	35.34%	Any						
W vs. H Section 3	Not In Group	N/A	0		W vs. H Section 3	Not In Group	N/A	1		W vs. H Section 3	Not In Group	N/A	Any						
AA vs. H Section 3	Segregate	14.11%	0	-19.08%	AA vs. H Section 3	Segregate	5.70%	1	-2.12%	AA vs. H Section 3	Segregate	13.70%	Any	-18.25%	11.10%				
AA vs. H Section 3	No Effect	52.70%	0		AA vs. H Section 3	No Effect	86.48%	1		AA vs. H Section 3	No Effect	54.34%	Any						
AA vs. H Section 3	Integrate	33.19%	0		AA vs. H Section 3	Integrate	7.82%	1		AA vs. H Section 3	Integrate	31.96%	Any						
AA vs. H Section 3	Not In Group	N/A	0		AA vs. H Section 3	Not In Group	N/A	1		AA vs. H Section 3	Not In Group	N/A	Any						
AA vs. A Section 3	Segregate	5.74%	0	-31.76%	AA vs. A Section 3	Segregate	2.12%	1	-4.20%	AA vs. A Section 3	Segregate	5.57%	Any	-30.47%	13.22%				
AA vs. A Section 3	No Effect	56.75%	0		AA vs. A Section 3	No Effect	91.56%	1		AA vs. A Section 3	No Effect	58.38%	Any						
AA vs. A Section 3	Integrate	37.50%	0		AA vs. A Section 3	Integrate	6.32%	1		AA vs. A Section 3	Integrate	36.04%	Any						
AA vs. A Section 3	Not In Group	N/A	0		AA vs. A Section 3	Not In Group	N/A	1		AA vs. A Section 3	Not In Group	N/A	Any						
H vs. A Section 3	Segregate	9.28%	0	-23.88%	H vs. A Section 3	Segregate	3.69%	1	-14.62%	H vs. A Section 3	Segregate	9.01%	Any	-23.44%	61.24%				
H vs. A Section 3	No Effect	57.57%	0		H vs. A Section 3	No Effect	78.00%	1		H vs. A Section 3	No Effect	58.54%	Any						
H vs. A Section 3	Integrate	33.16%	0		H vs. A Section 3	Integrate	18.31%	1		H vs. A Section 3	Integrate	32.45%	Any						
H vs. A Section 3	Not In Group	N/A	0		H vs. A Section 3	Not In Group	N/A	1		H vs. A Section 3	Not In Group	N/A	Any						
* "Not in group" not included in calculation																			
**CP beneficiary net percentage as percentage of non-beneficiary net percentage																			

**Ex 4 - Siskin 12/13/19 amended sur-reply report Table SR7,
disaggregated by outsiders versus insiders**

Section 1 (counts)

Groups	Effect	Number	all_cb*	Net		Groups	Effect	Number	all_cb*	Net		Groups	Effect	Number	all_cb*	Net
W vs. AA	Segregate	151	0	-299		W vs. AA	Segregate	52	1	-84		W vs. AA	Segregate	203	Any	-383
W vs. AA	No Effect	1474	0			W vs. AA	No Effect	1594	1			W vs. AA	No Effect	3068	Any	
W vs. AA	Integrate	450	0			W vs. AA	Integrate	136	1			W vs. AA	Integrate	586	Any	
W vs. AA	Not In Group	2313	0			W vs. AA	Not In Group	2054	1			W vs. AA	Not In Group	4367	Any	
W vs. A	Segregate	144	0	-114		W vs. A	Segregate	83	1	-57		W vs. A	Segregate	227	Any	-171
W vs. A	No Effect	408	0			W vs. A	No Effect	660	1			W vs. A	No Effect	1068	Any	
W vs. A	Integrate	258	0			W vs. A	Integrate	140	1			W vs. A	Integrate	398	Any	
W vs. A	Not In Group	3578	0			W vs. A	Not In Group	2953	1			W vs. A	Not In Group	6531	Any	
W vs. H	Segregate	205	0	-285		W vs. H	Segregate	107	1	-179		W vs. H	Segregate	312	Any	-464
W vs. H	No Effect	1487	0			W vs. H	No Effect	1684	1			W vs. H	No Effect	3171	Any	
W vs. H	Integrate	490	0			W vs. H	Integrate	286	1			W vs. H	Integrate	776	Any	
W vs. H	Not In Group	2206	0			W vs. H	Not In Group	1759	1			W vs. H	Not In Group	3965	Any	
AA vs. H	Segregate	485	0	-399		AA vs. H	Segregate	212	1	-42		AA vs. H	Segregate	697	Any	-441
AA vs. H	No Effect	1928	0			AA vs. H	No Effect	2237	1			AA vs. H	No Effect	4165	Any	
AA vs. H	Integrate	884	0			AA vs. H	Integrate	254	1			AA vs. H	Integrate	1138	Any	
AA vs. H	Not In Group	1091	0			AA vs. H	Not In Group	1133	1			AA vs. H	Not In Group	2224	Any	
AA vs. A	Segregate	132	0	-316		AA vs. A	Segregate	44	1	-63		AA vs. A	Segregate	176	Any	-379
AA vs. A	No Effect	1345	0			AA vs. A	No Effect	1358	1			AA vs. A	No Effect	2703	Any	
AA vs. A	Integrate	448	0			AA vs. A	Integrate	107	1			AA vs. A	Integrate	555	Any	
AA vs. A	Not In Group	2463	0			AA vs. A	Not In Group	2327	1			AA vs. A	Not In Group	4790	Any	
H vs. A	Segregate	182	0	-229		H vs. A	Segregate	55	1	-182		H vs. A	Segregate	237	Any	-411
H vs. A	No Effect	1439	0			H vs. A	No Effect	1512	1			H vs. A	No Effect	2951	Any	
H vs. A	Integrate	411	0			H vs. A	Integrate	237	1			H vs. A	Integrate	648	Any	
H vs. A	Not In Group	2356	0			H vs. A	Not In Group	2032	1			H vs. A	Not In Group	4388	Any	

* all_cb was determined by joining against "beveridge_awd_unit_type" using field "all_cb"

Section 1 (percentages)

Groups	Effect*	Percentage	all_cb	Net		Groups	Effect*	Percentage	all_cb	Net		Groups	Effect*	Percentage	all_cb	Net		Relative percentage**
W vs. AA	Segregate	7.28%	0	-14.41%		W vs. AA	Segregate	2.92%	1	-4.71%		W vs. AA	Segregate	5.26%	Any	-9.93%		32.71%
W vs. AA	No Effect	71.04%	0			W vs. AA	No Effect	89.45%	1			W vs. AA	No Effect	79.54%	Any			
W vs. AA	Integrate	21.69%	0			W vs. AA	Integrate	7.63%	1			W vs. AA	Integrate	15.19%	Any			
W vs. AA	Not In Group	N/A	0			W vs. AA	Not In Group	N/A	1			W vs. AA	Not In Group	N/A	Any			
W vs. A	Segregate	17.78%	0	-14.07%		W vs. A	Segregate	9.40%	1	-6.46%		W vs. A	Segregate	13.41%	Any	-10.10%		45.87%
W vs. A	No Effect	50.37%	0			W vs. A	No Effect	74.75%	1			W vs. A	No Effect	63.08%	Any			
W vs. A	Integrate	31.85%	0			W vs. A	Integrate	15.86%	1			W vs. A	Integrate	23.51%	Any			
W vs. A	Not In Group	N/A	0			W vs. A	Not In Group	N/A	1			W vs. A	Not In Group	N/A	Any			
W vs. H	Segregate	9.40%	0	-13.06%		W vs. H	Segregate	5.15%	1	-8.62%		W vs. H	Segregate	7.33%	Any	-10.89%		65.98%
W vs. H	No Effect	68.15%	0			W vs. H	No Effect	81.08%	1			W vs. H	No Effect	74.45%	Any			
W vs. H	Integrate	22.46%	0			W vs. H	Integrate	13.77%	1			W vs. H	Integrate	18.22%	Any			
W vs. H	Not In Group	N/A	0			W vs. H	Not In Group	N/A	1			W vs. H	Not In Group	N/A	Any			
AA vs. H	Segregate	14.71%	0	-12.10%		AA vs. H	Segregate	7.84%	1	-1.55%		AA vs. H	Segregate	11.62%	Any	-7.35%		12.84%
AA vs. H	No Effect	58.48%	0			AA vs. H	No Effect	82.76%	1			AA vs. H	No Effect	69.42%	Any			
AA vs. H	Integrate	26.81%	0			AA vs. H	Integrate	9.40%	1			AA vs. H	Integrate	18.97%	Any			
AA vs. H	Not In Group	N/A	0			AA vs. H	Not In Group	N/A	1			AA vs. H	Not In Group	N/A	Any			
AA vs. A	Segregate	6.86%	0	-16.42%		AA vs. A	Segregate	2.92%	1	-4.17%		AA vs. A	Segregate	5.13%	Any	-11.04%		25.43%
AA vs. A	No Effect	69.87%	0			AA vs. A	No Effect	89.99%	1			AA vs. A	No Effect	78.71%	Any			
AA vs. A	Integrate	23.27%	0			AA vs. A	Integrate	7.09%	1			AA vs. A	Integrate	16.16%	Any			
AA vs. A	Not In Group	N/A	0			AA vs. A	Not In Group	N/A	1			AA vs. A	Not In Group	N/A	Any			
H vs. A	Segregate	8.96%	0	-11.27%		H vs. A	Segregate	3.05%	1	-10.09%		H vs. A	Segregate	6.18%	Any	-10.71%		89.52%
H vs. A	No Effect	70.82%	0			H vs. A	No Effect	83.81%	1			H vs. A	No Effect	76.93%	Any			
H vs. A	Integrate	20.23%	0			H vs. A	Integrate	13.14%	1			H vs. A	Integrate	16.89%	Any			
H vs. A	Not In Group	N/A	0			H vs. A	Not In Group	N/A	1			H vs. A	Not In Group	N/A	Any			
* "Not in group" not included in calculation																		
**CP beneficiary net percentage as percentage of non-beneficiary net percentage																		

Section 2 (counts)

SCALED*																
Groups	Effect	Number	cd_pref**	Net		Groups	Effect	Number	cd_pref**	Net		Groups	Effect	Number	cd_pref**	Net
W vs. AA Section 2	Segregate	215	0	-727		W vs. AA Section 2	Segregate	24	1	-59		W vs. AA Section 2	Segregate	240	Any	-786
W vs. AA Section 2	No Effect	1,956	0			W vs. AA Section 2	No Effect	778	1			W vs. AA Section 2	No Effect	2,735	Any	
W vs. AA Section 2	Integrate	942	0			W vs. AA Section 2	Integrate	84	1			W vs. AA Section 2	Integrate	1,026	Any	
W vs. AA Section 2	Not In Group	3,263	0			W vs. AA Section 2	Not In Group	960	1			W vs. AA Section 2	Not In Group	4,223	Any	
W vs. A Section 2	Segregate	144	0	-155		W vs. A Section 2	Segregate	39	1	-17		W vs. A Section 2	Segregate	183	Any	-171
W vs. A Section 2	No Effect	521	0			W vs. A Section 2	No Effect	259	1			W vs. A Section 2	No Effect	780	Any	
W vs. A Section 2	Integrate	298	0			W vs. A Section 2	Integrate	56	1			W vs. A Section 2	Integrate	354	Any	
W vs. A Section 2	Not In Group	5,413	0			W vs. A Section 2	Not In Group	1,494	1			W vs. A Section 2	Not In Group	6,907	Any	
W vs. H Section 2	Segregate	307	0	-548		W vs. H Section 2	Segregate	49	1	-109		W vs. H Section 2	Segregate	356	Any	-657
W vs. H Section 2	No Effect	1,874	0			W vs. H Section 2	No Effect	750	1			W vs. H Section 2	No Effect	2,624	Any	
W vs. H Section 2	Integrate	855	0			W vs. H Section 2	Integrate	158	1			W vs. H Section 2	Integrate	1,013	Any	
W vs. H Section 2	Not In Group	3,341	0			W vs. H Section 2	Not In Group	890	1			W vs. H Section 2	Not In Group	4,232	Any	
AA vs. H Section 2	Segregate	707	0	-917		AA vs. H Section 2	Segregate	92	1	-33		AA vs. H Section 2	Segregate	799	Any	-950
AA vs. H Section 2	No Effect	2,634	0			AA vs. H Section 2	No Effect	1,155	1			AA vs. H Section 2	No Effect	3,789	Any	
AA vs. H Section 2	Integrate	1,624	0			AA vs. H Section 2	Integrate	125	1			AA vs. H Section 2	Integrate	1,749	Any	
AA vs. H Section 2	Not In Group	1,413	0			AA vs. H Section 2	Not In Group	475	1			AA vs. H Section 2	Not In Group	1,888	Any	
AA vs. A Section 2	Segregate	190	0	-702		AA vs. A Section 2	Segregate	17	1	-39		AA vs. A Section 2	Segregate	207	Any	-741
AA vs. A Section 2	No Effect	1,811	0			AA vs. A Section 2	No Effect	695	1			AA vs. A Section 2	No Effect	2,506	Any	
AA vs. A Section 2	Integrate	891	0			AA vs. A Section 2	Integrate	56	1			AA vs. A Section 2	Integrate	948	Any	
AA vs. A Section 2	Not In Group	3,485	0			AA vs. A Section 2	Not In Group	1,078	1			AA vs. A Section 2	Not In Group	4,563	Any	
H vs. A Section 2	Segregate	270	0	-465		H vs. A Section 2	Segregate	26	1	-87		H vs. A Section 2	Segregate	296	Any	-553
H vs. A Section 2	No Effect	1,809	0			H vs. A Section 2	No Effect	700	1			H vs. A Section 2	No Effect	2,508	Any	
H vs. A Section 2	Integrate	735	0			H vs. A Section 2	Integrate	113	1			H vs. A Section 2	Integrate	848	Any	
H vs. A Section 2	Not In Group	3,563	0			H vs. A Section 2	Not In Group	1,008	1			H vs. A Section 2	Not In Group	4,571	Any	
* Consistent with the Siskin table calculations, section 2 was scaled to match the population size of section 1. i.e a scale factor was applied to the raw data																
Scale:	22.44917315															
** cd_pref was determined by joining against "apar_base_hh_fix_new " using field "CD_PREF"																

Section 2 (counts)

NOT SCALED														
Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net
W vs. AA Section 2	Segregate	4,830	0	-16325	W vs. AA Section 2	Segregate	550	1	-1330	W vs. AA Section 2	Segregate	5,380	Any	-17655
W vs. AA Section 2	No Effect	43,920	0		W vs. AA Section 2	No Effect	17,475	1		W vs. AA Section 2	No Effect	61,395	Any	
W vs. AA Section 2	Integrate	21,155	0		W vs. AA Section 2	Integrate	1,880	1		W vs. AA Section 2	Integrate	23,035	Any	
W vs. AA Section 2	Not In Group	73,251	0		W vs. AA Section 2	Not In Group	21,561	1		W vs. AA Section 2	Not In Group	94,812	Any	
W vs. A Section 2	Segregate	3,231	0	-3470	W vs. A Section 2	Segregate	873	1	-375	W vs. A Section 2	Segregate	4,104	Any	-3845
W vs. A Section 2	No Effect	11,702	0		W vs. A Section 2	No Effect	5,812	1		W vs. A Section 2	No Effect	17,514	Any	
W vs. A Section 2	Integrate	6,701	0		W vs. A Section 2	Integrate	1,248	1		W vs. A Section 2	Integrate	7,949	Any	
W vs. A Section 2	Not In Group	121,522	0		W vs. A Section 2	Not In Group	33,533	1		W vs. A Section 2	Not In Group	155,055	Any	
W vs. H Section 2	Segregate	6,885	0	-12305	W vs. H Section 2	Segregate	1,098	1	-2449	W vs. H Section 2	Segregate	7,983	Any	-14754
W vs. H Section 2	No Effect	42,072	0		W vs. H Section 2	No Effect	16,834	1		W vs. H Section 2	No Effect	58,906	Any	
W vs. H Section 2	Integrate	19,190	0		W vs. H Section 2	Integrate	3,547	1		W vs. H Section 2	Integrate	22,737	Any	
W vs. H Section 2	Not In Group	75,009	0		W vs. H Section 2	Not In Group	19,987	1		W vs. H Section 2	Not In Group	94,996	Any	
AA vs. H Section 2	Segregate	15,861	0	-20586	AA vs. H Section 2	Segregate	2,067	1	-748	AA vs. H Section 2	Segregate	17,928	Any	-21334
AA vs. H Section 2	No Effect	59,132	0		AA vs. H Section 2	No Effect	25,920	1		AA vs. H Section 2	No Effect	85,052	Any	
AA vs. H Section 2	Integrate	36,447	0		AA vs. H Section 2	Integrate	2,815	1		AA vs. H Section 2	Integrate	39,262	Any	
AA vs. H Section 2	Not In Group	31,716	0		AA vs. H Section 2	Not In Group	10,664	1		AA vs. H Section 2	Not In Group	42,380	Any	
AA vs. A Section 2	Segregate	4,261	0	-15750	AA vs. A Section 2	Segregate	384	1	-876	AA vs. A Section 2	Segregate	4,645	Any	-16626
AA vs. A Section 2	No Effect	40,655	0		AA vs. A Section 2	No Effect	15,612	1		AA vs. A Section 2	No Effect	56,267	Any	
AA vs. A Section 2	Integrate	20,011	0		AA vs. A Section 2	Integrate	1,260	1		AA vs. A Section 2	Integrate	21,271	Any	
AA vs. A Section 2	Not In Group	78,229	0		AA vs. A Section 2	Not In Group	24,210	1		AA vs. A Section 2	Not In Group	102,439	Any	
H vs. A Section 2	Segregate	6,057	0	-10448	H vs. A Section 2	Segregate	582	1	-1960	H vs. A Section 2	Segregate	6,639	Any	-12408
H vs. A Section 2	No Effect	40,607	0		H vs. A Section 2	No Effect	15,706	1		H vs. A Section 2	No Effect	56,313	Any	
H vs. A Section 2	Integrate	16,505	0		H vs. A Section 2	Integrate	2,542	1		H vs. A Section 2	Integrate	19,047	Any	
H vs. A Section 2	Not In Group	79,987	0		H vs. A Section 2	Not In Group	22,636	1		H vs. A Section 2	Not In Group	102,623	Any	

Section 2 (percentages)

NOT-SCALED RESULTS TRANSLATED TO PERCENTAGES																			
Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect*	Percentage	cd_pref	Net	Relative percentage**				
W vs. AA Section 2	Segregate	6.91%	0	-23.35%	W vs. AA Section 2	Segregate	2.76%	1	-6.68%	W vs. AA Section 2	Segregate	5.99%	Any	-19.66%	28.61%				
W vs. AA Section 2	No Effect	62.83%	0		W vs. AA Section 2	No Effect	87.79%	1		W vs. AA Section 2	No Effect	68.36%	Any						
W vs. AA Section 2	Integrate	30.26%	0		W vs. AA Section 2	Integrate	9.44%	1		W vs. AA Section 2	Integrate	25.65%	Any						
W vs. AA Section 2	Not In Group	N/A	0		W vs. AA Section 2	Not In Group	N/A	1		W vs. AA Section 2	Not In Group	N/A	Any						
W vs. A Section 2	Segregate	14.93%	0	-16.04%	W vs. A Section 2	Segregate	11.00%	1	-4.73%	W vs. A Section 2	Segregate	13.88%	Any	-13.00%	29.47%				
W vs. A Section 2	No Effect	54.09%	0		W vs. A Section 2	No Effect	73.26%	1		W vs. A Section 2	No Effect	59.23%	Any						
W vs. A Section 2	Integrate	30.97%	0		W vs. A Section 2	Integrate	15.73%	1		W vs. A Section 2	Integrate	26.88%	Any						
W vs. A Section 2	Not In Group	N/A	0		W vs. A Section 2	Not In Group	N/A	1		W vs. A Section 2	Not In Group	N/A	Any						
W vs. H Section 2	Segregate	10.10%	0	-18.06%	W vs. H Section 2	Segregate	5.11%	1	-11.40%	W vs. H Section 2	Segregate	8.91%	Any	-16.46%	63.15%				
W vs. H Section 2	No Effect	61.74%	0		W vs. H Section 2	No Effect	78.37%	1		W vs. H Section 2	No Effect	65.72%	Any						
W vs. H Section 2	Integrate	28.16%	0		W vs. H Section 2	Integrate	16.51%	1		W vs. H Section 2	Integrate	25.37%	Any						
W vs. H Section 2	Not In Group	N/A	0		W vs. H Section 2	Not In Group	N/A	1		W vs. H Section 2	Not In Group	N/A	Any						
AA vs. H Section 2	Segregate	14.23%	0	-18.47%	AA vs. H Section 2	Segregate	6.71%	1	-2.43%	AA vs. H Section 2	Segregate	12.60%	Any	-15.00%	13.15%				
AA vs. H Section 2	No Effect	53.06%	0		AA vs. H Section 2	No Effect	84.15%	1		AA vs. H Section 2	No Effect	59.79%	Any						
AA vs. H Section 2	Integrate	32.71%	0		AA vs. H Section 2	Integrate	9.14%	1		AA vs. H Section 2	Integrate	27.60%	Any						
AA vs. H Section 2	Not In Group	N/A	0		AA vs. H Section 2	Not In Group	N/A	1		AA vs. H Section 2	Not In Group	N/A	Any						
AA vs. A Section 2	Segregate	6.56%	0	-24.26%	AA vs. A Section 2	Segregate	2.23%	1	-5.08%	AA vs. A Section 2	Segregate	5.65%	Any	-20.23%	20.93%				
AA vs. A Section 2	No Effect	62.62%	0		AA vs. A Section 2	No Effect	90.47%	1		AA vs. A Section 2	No Effect	68.47%	Any						
AA vs. A Section 2	Integrate	30.82%	0		AA vs. A Section 2	Integrate	7.30%	1		AA vs. A Section 2	Integrate	25.88%	Any						
AA vs. A Section 2	Not In Group	N/A	0		AA vs. A Section 2	Not In Group	N/A	1		AA vs. A Section 2	Not In Group	N/A	Any						
H vs. A Section 2	Segregate	9.59%	0	-16.54%	H vs. A Section 2	Segregate	3.09%	1	-10.41%	H vs. A Section 2	Segregate	8.10%	Any	-15.13%	62.93%				
H vs. A Section 2	No Effect	64.28%	0		H vs. A Section 2	No Effect	83.41%	1		H vs. A Section 2	No Effect	68.68%	Any						
H vs. A Section 2	Integrate	26.13%	0		H vs. A Section 2	Integrate	13.50%	1		H vs. A Section 2	Integrate	23.23%	Any						
H vs. A Section 2	Not In Group	N/A	0		H vs. A Section 2	Not In Group	N/A	1		H vs. A Section 2	Not In Group	N/A	Any						
* "Not in group" not included in calculation																			
**CP beneficiary net percentage as percentage of non-beneficiary net percentage																			

Section 3 (counts)

SCALED*														
Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net	Groups	Effect	Number	cd_pref**	Net
W vs. AA Section 3	Segregate	238	0	-1172	W vs. AA Section 3	Segregate	5	1	-18	W vs. AA Section 3	Segregate	243	Any	-1190
W vs. AA Section 3	No Effect	2114	0		W vs. AA Section 3	No Effect	171	1		W vs. AA Section 3	No Effect	2284	Any	
W vs. AA Section 3	Integrate	1410	0		W vs. AA Section 3	Integrate	24	1		W vs. AA Section 3	Integrate	1434	Any	
W vs. AA Section 3	Not In Group	4060	0		W vs. AA Section 3	Not In Group	203	1		W vs. AA Section 3	Not In Group	4263	Any	
W vs. A Section 3	Segregate	174	0	-210	W vs. A Section 3	Segregate	6	1	-2	W vs. A Section 3	Segregate	180	Any	-212
W vs. A Section 3	No Effect	592	0		W vs. A Section 3	No Effect	49	1		W vs. A Section 3	No Effect	641	Any	
W vs. A Section 3	Integrate	384	0		W vs. A Section 3	Integrate	8	1		W vs. A Section 3	Integrate	392	Any	
W vs. A Section 3	Not In Group	6672	0		W vs. A Section 3	Not In Group	339	1		W vs. A Section 3	Not In Group	7011	Any	
W vs. H Section 3	Segregate	353	0	-987	W vs. H Section 3	Segregate	11	1	-26	W vs. H Section 3	Segregate	364	Any	-1013
W vs. H Section 3	No Effect	2003	0		W vs. H Section 3	No Effect	152	1		W vs. H Section 3	No Effect	2156	Any	
W vs. H Section 3	Integrate	1340	0		W vs. H Section 3	Integrate	37	1		W vs. H Section 3	Integrate	1377	Any	
W vs. H Section 3	Not In Group	4125	0		W vs. H Section 3	Not In Group	202	1		W vs. H Section 3	Not In Group	4327	Any	
AA vs. H Section 3	Segregate	868	0	-1174	AA vs. H Section 3	Segregate	18	1	-7	AA vs. H Section 3	Segregate	886	Any	-1180
AA vs. H Section 3	No Effect	3242	0		AA vs. H Section 3	No Effect	272	1		AA vs. H Section 3	No Effect	3514	Any	
AA vs. H Section 3	Integrate	2042	0		AA vs. H Section 3	Integrate	25	1		AA vs. H Section 3	Integrate	2066	Any	
AA vs. H Section 3	Not In Group	1670	0		AA vs. H Section 3	Not In Group	88	1		AA vs. H Section 3	Not In Group	1758	Any	
AA vs. A Section 3	Segregate	207	0	-1145	AA vs. A Section 3	Segregate	4	1	-7	AA vs. A Section 3	Segregate	211	Any	-1152
AA vs. A Section 3	No Effect	2046	0		AA vs. A Section 3	No Effect	162	1		AA vs. A Section 3	No Effect	2208	Any	
AA vs. A Section 3	Integrate	1352	0		AA vs. A Section 3	Integrate	11	1		AA vs. A Section 3	Integrate	1363	Any	
AA vs. A Section 3	Not In Group	4217	0		AA vs. A Section 3	Not In Group	225	1		AA vs. A Section 3	Not In Group	4442	Any	
H vs. A Section 3	Segregate	328	0	-845	H vs. A Section 3	Segregate	7	1	-26	H vs. A Section 3	Segregate	335	Any	-871
H vs. A Section 3	No Effect	2038	0		H vs. A Section 3	No Effect	139	1		H vs. A Section 3	No Effect	2176	Any	
H vs. A Section 3	Integrate	1174	0		H vs. A Section 3	Integrate	33	1		H vs. A Section 3	Integrate	1206	Any	
H vs. A Section 3	Not In Group	4282	0		H vs. A Section 3	Not In Group	225	1		H vs. A Section 3	Not In Group	4506	Any	
* Consistent with the Siskin table calculations, section 3 was scaled to match the population size of section 1. i.e a scale factor was applied to the raw data														
Scale:		305.6420233												
** cd_pref was determined by joining against "apar_base_hh_fix_new" using field "CD_PREF"														

Section 3 (counts)

NOT SCALED														
Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net	Groups	Effect	Number	cd_pref	Net
W vs. AA Section 3	Segregate	72797	0	-358187	W vs. AA Section 3	Segregate	1618	1	-5609	W vs. AA Section 3	Segregate	74415	Any	-363796
W vs. AA Section 3	No Effect	645987	0		W vs. AA Section 3	No Effect	52171	1		W vs. AA Section 3	No Effect	698158	Any	
W vs. AA Section 3	Integrate	430984	0		W vs. AA Section 3	Integrate	7227	1		W vs. AA Section 3	Integrate	438211	Any	
W vs. AA Section 3	Not In Group	1240841	0		W vs. AA Section 3	Not In Group	61975	1		W vs. AA Section 3	Not In Group	1302816	Any	
W vs. A Section 3	Segregate	53278	0	-64058	W vs. A Section 3	Segregate	1838	1	-598	W vs. A Section 3	Segregate	55116	Any	-64656
W vs. A Section 3	No Effect	180866	0		W vs. A Section 3	No Effect	14988	1		W vs. A Section 3	No Effect	195854	Any	
W vs. A Section 3	Integrate	117336	0		W vs. A Section 3	Integrate	2436	1		W vs. A Section 3	Integrate	119772	Any	
W vs. A Section 3	Not In Group	2039129			W vs. A Section 3	Not In Group	103729	1		W vs. A Section 3	Not In Group	2142858	Any	
W vs. H Section 3	Segregate	108002	0	-301581	W vs. H Section 3	Segregate	3329	1	-8041	W vs. H Section 3	Segregate	111331	Any	-309622
W vs. H Section 3	No Effect	612327	0		W vs. H Section 3	No Effect	46498	1		W vs. H Section 3	No Effect	658825	Any	
W vs. H Section 3	Integrate	409583	0		W vs. H Section 3	Integrate	11370	1		W vs. H Section 3	Integrate	420953	Any	
W vs. H Section 3	Not In Group	1260697	0		W vs. H Section 3	Not In Group	61794	1		W vs. H Section 3	Not In Group	1322491	Any	
AA vs. H Section 3	Segregate	265344	0	-358681	AA vs. H Section 3	Segregate	5476	1	-2033	AA vs. H Section 3	Segregate	270820	Any	-360714
AA vs. H Section 3	No Effect	990859	0		AA vs. H Section 3	No Effect	83068	1		AA vs. H Section 3	No Effect	1073927	Any	
AA vs. H Section 3	Integrate	624025	0		AA vs. H Section 3	Integrate	7509	1		AA vs. H Section 3	Integrate	631534	Any	
AA vs. H Section 3	Not In Group	510381	0		AA vs. H Section 3	Not In Group	26938	1		AA vs. H Section 3	Not In Group	537319	Any	
AA vs. A Section 3	Segregate	63270	0	-349939	AA vs. A Section 3	Segregate	1148	1	-2273	AA vs. A Section 3	Segregate	64418	Any	-352212
AA vs. A Section 3	No Effect	625317	0		AA vs. A Section 3	No Effect	49549	1		AA vs. A Section 3	No Effect	674866	Any	
AA vs. A Section 3	Integrate	413209	0		AA vs. A Section 3	Integrate	3421	1		AA vs. A Section 3	Integrate	416630	Any	
AA vs. A Section 3	Not In Group	1288813	0		AA vs. A Section 3	Not In Group	68873	1		AA vs. A Section 3	Not In Group	1357686	Any	
H vs. A Section 3	Segregate	100362	0	-258359	H vs. A Section 3	Segregate	2002	1	-7941	H vs. A Section 3	Segregate	102364	Any	-266300
H vs. A Section 3	No Effect	622857	0		H vs. A Section 3	No Effect	42354	1		H vs. A Section 3	No Effect	665211	Any	
H vs. A Section 3	Integrate	358721	0		H vs. A Section 3	Integrate	9943	1		H vs. A Section 3	Integrate	368664	Any	
H vs. A Section 3	Not In Group	1308669	0		H vs. A Section 3	Not In Group	68692	1		H vs. A Section 3	Not In Group	1377361	Any	

Section 3 (percentages)

NOT-SCALED RESULTS TRANSLATED TO PERCENTAGES																			
Groups	Effect*	Percentage	cd_pref	Net	Groups	Effect	Percentage	cd_pref	Net	Groups	Effect	Percentage	cd_pref	Net	Relative percentage**				
W vs. AA Section 3	Segregate	6.33%	0	-31.15%	W vs. AA Section 3	Segregate	2.65%	1	-9.19%	W vs. AA Section 3	Segregate	6.15%	Any	-30.05%	29.51%				
W vs. AA Section 3	No Effect	56.18%	0		W vs. AA Section 3	No Effect	85.50%	1		W vs. AA Section 3	No Effect	57.66%	Any						
W vs. AA Section 3	Integrate	37.48%	0		W vs. AA Section 3	Integrate	11.84%	1		W vs. AA Section 3	Integrate	36.19%	Any						
W vs. AA Section 3	Not In Group	N/A	0		W vs. AA Section 3	Not In Group	N/A	1		W vs. AA Section 3	Not In Group	N/A	Any						
W vs. A Section 3	Segregate	15.16%	0	-18.23%	W vs. A Section 3	Segregate	9.54%	1	-3.10%	W vs. A Section 3	Segregate	14.87%	Any	-17.44%	17.03%				
W vs. A Section 3	No Effect	51.46%	0		W vs. A Section 3	No Effect	77.81%	1		W vs. A Section 3	No Effect	52.83%	Any						
W vs. A Section 3	Integrate	33.38%	0		W vs. A Section 3	Integrate	12.65%	1		W vs. A Section 3	Integrate	32.31%	Any						
W vs. A Section 3	Not In Group	N/A			W vs. A Section 3	Not In Group	N/A	1		W vs. A Section 3	Not In Group	N/A	Any						
W vs. H Section 3	Segregate	9.56%	0	-26.69%	W vs. H Section 3	Segregate	5.44%	1	-13.14%	W vs. H Section 3	Segregate	9.35%	Any	-25.99%	49.23%				
W vs. H Section 3	No Effect	54.19%	0		W vs. H Section 3	No Effect	75.98%	1		W vs. H Section 3	No Effect	55.31%	Any						
W vs. H Section 3	Integrate	36.25%	0		W vs. H Section 3	Integrate	18.58%	1		W vs. H Section 3	Integrate	35.34%	Any						
W vs. H Section 3	Not In Group	N/A	0		W vs. H Section 3	Not In Group	N/A	1		W vs. H Section 3	Not In Group	N/A	Any						
AA vs. H Section 3	Segregate	14.11%	0	-19.08%	AA vs. H Section 3	Segregate	5.70%	1	-2.12%	AA vs. H Section 3	Segregate	13.70%	Any	-18.25%	11.10%				
AA vs. H Section 3	No Effect	52.70%	0		AA vs. H Section 3	No Effect	86.48%	1		AA vs. H Section 3	No Effect	54.34%	Any						
AA vs. H Section 3	Integrate	33.19%	0		AA vs. H Section 3	Integrate	7.82%	1		AA vs. H Section 3	Integrate	31.96%	Any						
AA vs. H Section 3	Not In Group	N/A	0		AA vs. H Section 3	Not In Group	N/A	1		AA vs. H Section 3	Not In Group	N/A	Any						
AA vs. A Section 3	Segregate	5.74%	0	-31.76%	AA vs. A Section 3	Segregate	2.12%	1	-4.20%	AA vs. A Section 3	Segregate	5.57%	Any	-30.47%	13.22%				
AA vs. A Section 3	No Effect	56.75%	0		AA vs. A Section 3	No Effect	91.56%	1		AA vs. A Section 3	No Effect	58.38%	Any						
AA vs. A Section 3	Integrate	37.50%	0		AA vs. A Section 3	Integrate	6.32%	1		AA vs. A Section 3	Integrate	36.04%	Any						
AA vs. A Section 3	Not In Group	N/A	0		AA vs. A Section 3	Not In Group	N/A	1		AA vs. A Section 3	Not In Group	N/A	Any						
H vs. A Section 3	Segregate	9.28%	0	-23.88%	H vs. A Section 3	Segregate	3.69%	1	-14.62%	H vs. A Section 3	Segregate	9.01%	Any	-23.44%	61.24%				
H vs. A Section 3	No Effect	57.57%	0		H vs. A Section 3	No Effect	78.00%	1		H vs. A Section 3	No Effect	58.54%	Any						
H vs. A Section 3	Integrate	33.16%	0		H vs. A Section 3	Integrate	18.31%	1		H vs. A Section 3	Integrate	32.45%	Any						
H vs. A Section 3	Not In Group	N/A	0		H vs. A Section 3	Not In Group	N/A	1		H vs. A Section 3	Not In Group	N/A	Any						
* "Not in group" not included in calculation																			
**CP beneficiary net percentage as percentage of non-beneficiary net percentage																			

Ex 5 - Best Estimate - Only Not Partially Closed Out

effect on selection given considered for selection and was apparently eligible										only not partially closed out applicants																																																																
method										RACE																																																																
coefficient					z					wald					effect of prob of being considered					impact on selection among those reached																																																						
white control					black					hispa					white control					# reached																																																						
-0.0967					-2.14					4.58					0.0324					-0.0922					-2.139					yes					# reached					224481																																		
0.0124					0.28					0.08					0.7781					0.0125					0.282					no					prob sel					3.58872431																																		
0.1341					2.24					5.03					0.025					-0.1090					-1.849					no					increase/decrease in prob if compared to similarly situated white					change in units of sd					statistically significant?																													
-0.1154					-1.85					3.42					0.0642					0.0870					1.448					no					black					-2.57%					-2.14					YES																								
0.0834					1.45					2.09					0.1479					PREFERENCE										Hispanic					0.35%					0.28					No																													
-0.2643					-5.87					34.51					<.0001					-0.2323					-5.873					YES					Asian					4.00%					2.24					Yes																								
-0.3263					-5.33					28.4					<.0001					-0.2784					-5.332					YES					increase/decrease in prob due to preference																																							
1.0783					40.24					1617.72					<.0001					1.9397					40.235					yes					MB_ELIG					-6.47%					-5.87					YES																								
-0.1154					-3.30					10.84					0.001					-0.1090					-3.297					yes					HV_ELIG					-7.76%					-5.33					YES																								
-0.3643					-3.44					11.81					0.0006					-0.3053					-3.437					yes					CB_ELIG					54.05%					40.24					YES																								
Analysis Of Maximum Likelihood Parameter Estimates (from SAS Output)																																																																										
Parameter		Estimate		Standard Error		Wald 95% Confidence Limits		Wald Chi-Square		Pr > ChiSq		Z value (Computed)																																																														
black		-0.0967		0.0452		-0.1852 -0.0081		4.58		0.0324		-2.1394																																																														
hispa		0.0124		0.044		-0.0739 0.0987		0.08		0.7781		0.2818																																																														
asian		0.1341		0.0598		0.0169 0.2514		5.03		0.025		2.2425																																																														
other		-0.1154		0.0624		-0.2377 0.0068		3.42		0.0642		-1.8494																																																														
refus		0.0834		0.0576		-0.0296 0.1963		2.09		0.1479		1.4479																																																														
MB_ELIG		-0.2643		0.045		-0.3525 -0.1762		34.51		<.0001		-5.8733																																																														
HV_ELIG		-0.3263		0.0612		-0.4463 -0.2063		28.4		<.0001		-5.3317																																																														
CB_ELIG		1.0783		0.0268		1.0257 1.1308		1617.72		<.0001		40.2351																																																														
ME_ELIG		-0.1154		0.035		-0.1841 -0.0467		10.84		0.001		-3.2971																																																														
VT_ELIG		-0.3643		0.106		-0.5721 -0.1566		11.81		0.0006		-3.4368																																																														
Analysis Of Maximum Likelihood Parameter Estimates (from SAS Output)																																																																										
Parameter		Estimate		Standard Error		Wald 95% Confidence Limits		Wald Chi-Square		Pr > ChiSq		Z value (Computed)																																																														
MB_ELIG		-0.2643		0.045		-0.3525 -0.1762		34.51		<.0001		-5.8733																																																														
HV_ELIG		-0.3263		0.0612		-0.4463 -0.2063		28.4		<.0001		-5.3317																																																														
CB_ELIG		1.0783		0.0268		1.0257 1.1308		1617.72		<.0001		40.2351																																																														
ME_ELIG		-0.1154		0.035		-0.1841 -0.0467		10.84		0.001		-3.2971																																																														
VT_ELIG		-0.3643		0.106		-0.5721 -0.1566		11.81		0.0006		-3.4368																																																														
black		-0.0967		0.0452		-0.1852 -0.0081		4.58		0.0324		-2.1394																																																														
hispa		0.0124		0.044		-0.0739 0.0987		0.08		0.7781		0.2818																																																														
asian		0.1341		0.0598		0.0169 0.2514		5.03		0.025		2.2425																																																														
other		-0.1154		0.0624		-0.2377 0.0068		3.42		0.0642		-1.8494																																																														
refus		0.0834		0.0576		-0.0296 0.1963		2.09		0.1479		1.4479																																																														

Note: SAS output used to calculate probability results using template from SAS regression output used by Dr. Siskin.

Data used are Dr. Siskin's data underlying his regression produced as Table SR5 in Siskin 12/13/19 Amended Sur-Reply

