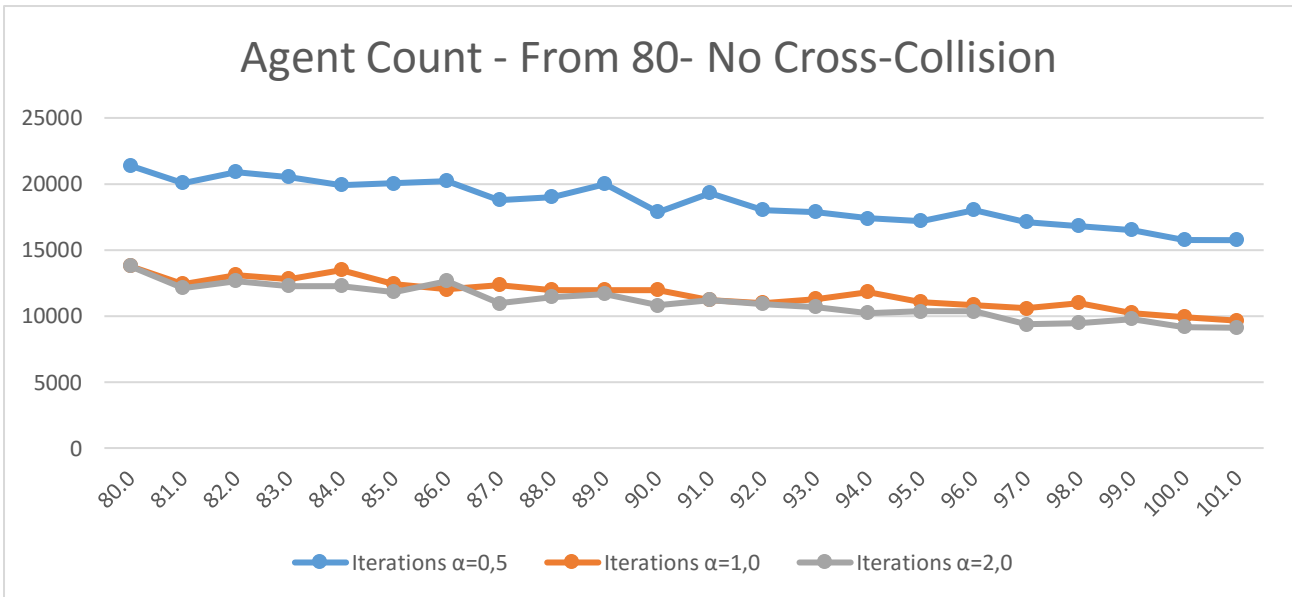
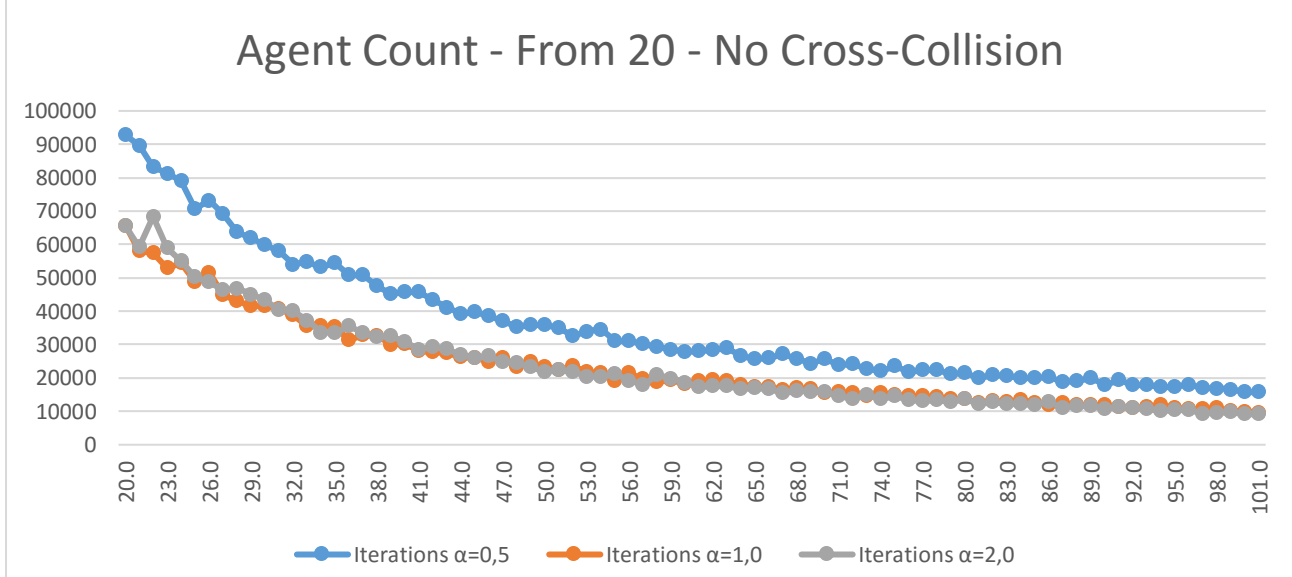
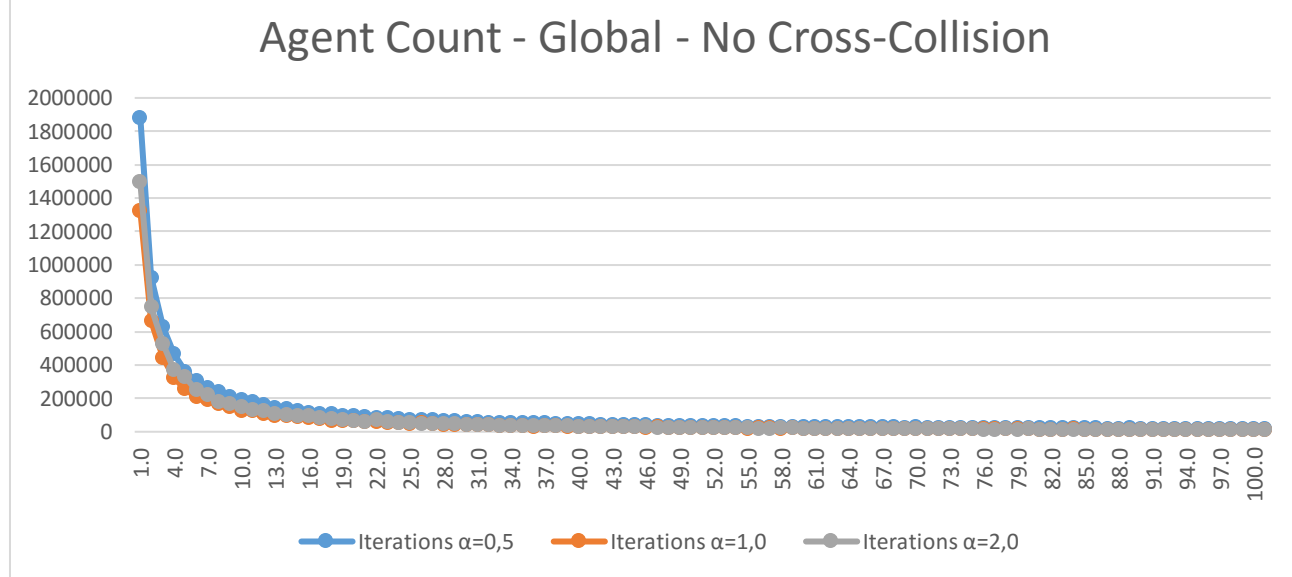


Agent Count	Cross collision = False		
	Iterations		
	$\alpha=0,5$	$\alpha=1,0$	$\alpha=2,0$
1.0	1881908	1323298	1493616
2.0	923834	664409	745235
3.0	629523	440256	524541
4.0	467263	319112	368939
5.0	360704	255843	327981
6.0	305333	205215	248222
7.0	263260	188242	221482
8.0	240617	167404	177272
9.0	209905	150918	166821
10.0	191306	126727	146170
11.0	177897	122945	131610
12.0	158562	109027	126775
13.0	142660	96725	108748
14.0	133326	92168	100493
15.0	124248	87793	93731
16.0	111847	81679	92443
17.0	104169	79289	81105
18.0	103755	66888	78035
19.0	91668	64723	70723
20.0	92661	65665	65409
21.0	89644	57945	59153
22.0	83376	57416	68342
23.0	81240	52886	58910
24.0	78956	54318	54994
25.0	70608	48761	50273
26.0	73147	51598	48718
27.0	69179	44734	46262
28.0	63625	43007	46797
29.0	61914	41498	44986
30.0	59792	41535	43339
31.0	57936	40646	40389
32.0	53992	38802	40078
33.0	54736	35670	37210
34.0	53197	35462	33597
35.0	54429	35249	33457
36.0	50835	31268	35660
37.0	50897	32859	33514
38.0	47452	32573	32318
39.0	45242	29994	32471
40.0	45766	30290	30839
41.0	45725	28127	28512
42.0	43290	27734	29240
43.0	41095	27573	28533
44.0	39256	26276	26888
45.0	39773	26035	26016
46.0	38661	24910	26647
47.0	36957	26088	24744
48.0	35224	23175	24565
49.0	35886	24707	23312
50.0	35904	23269	21851
51.0	35079	22477	22414
52.0	32491	23600	21828
53.0	33907	21829	20423
54.0	34520	21452	20346
55.0	31179	18953	21258
56.0	31179	21512	19210
57.0	30156	19652	17910
58.0	29295	18748	20982
59.0	28519	19434	19817
60.0	27882	18076	18610
61.0	28056	19150	17365
62.0	28441	19280	17515
63.0	28844	19158	17478
64.0	26597	17767	16683
65.0	25663	17411	17014
66.0	25922	17351	16612
67.0	27073	16480	15505
68.0	25636	17042	16086
69.0	24312	16626	15923
70.0	25537	15606	15675
71.0	23887	15900	14644
72.0	24113	15405	13743
73.0	22651	14681	14856
74.0	22059	15503	13618
75.0	23551	14914	14521
76.0	21771	14506	13379
77.0	22255	14509	13150
78.0	22465	14380	13421
79.0	21211	13622	12674
80.0	21373	13758	13751
81.0	20096	12421	12113
82.0	20897	13128	12669
83.0	20549	12783	12247
84.0	19935	13481	12269
85.0	20025	12413	11837
86.0	20201	12005	12656
87.0	18807	12355	10940
88.0	18981	11971	11457
89.0	19994	11944	11631
90.0	17848	11980	10795
91.0	19302	11182	11197
92.0	17999	10965	10925
93.0	17840	11263	10682
94.0	17382	11814	10207
95.0	17174	11029	10328
96.0	18036	10814	10339
97.0	17090	10562	9354
98.0	16818	10971	9462
99.0	16509	10196	9750
100.0	15754	9945	9154
101.0	15759	9648	9109

Food size	500
MAS size	10000
Food count	100
Step	1
Units	100



Agent Count	Cross collision = True		
	Iterations		
	$\alpha=0,5$	$\alpha=1,0$	$\alpha=2,0$
1.0	213935	619390	1451928
2.0	104138	296949	751476
3.0	66051	201631	505716
4.0	52989	145320	351198
5.0	40687	122399	285909
6.0	32473	98745	232574
7.0	29468	82450	213097
8.0	24994	74573	169724
9.0	22357	66679	150398
10.0	19685	56753	135228
11.0	20138	52190	125718
12.0	17187	46027	115875
13.0	15458	44102	105704
14.0	14433	41572	92760
15.0	13236	39433	85378
16.0	12482	34199	78481
17.0	11340	33073	72008
18.0	11311	31287	70332
19.0	10261	28598	65087
20.0	10005	27919	64086
21.0	8548	26621	65399
22.0	9228	25773	57882
23.0	8240	22279	53721
24.0	8516	22443	50879
25.0	7347	22052	49637
26.0	7402	20016	50805
27.0	6900	20322	47082
28.0	6877	19709	41318
29.0	6450	18798	44395
30.0	6081	17867	39450
31.0	5545	17347	40860
32.0	5931	16372	36494
33.0	5320	15457	38776
34.0	5248	15187	37800
35.0	5257	15315	34226
36.0	4989	14647	32763
37.0	4461	15040	31611
38.0	4750	13158	29877
39.0	4670	13540	30995
40.0	4495	13418	28420
41.0	4529	13169	26400
42.0	4308	12500	26628
43.0	4268	11464	27297
44.0	4187	11743	23458
45.0	3737	12128	23706
46.0	3826	11094	25451
47.0	3858	10791	23263
48.0	3759	10995	21734
49.0	3845	10429	23641
50.0	3640	10225	22249
51.0	3423	10402	21010
52.0	3387	9948	20031
53.0	3315	9395	19642
54.0	3385	8829	19903
55.0	3138	8671	20385
56.0	2970	8791	18292
57.0	3111	8399	18148
58.0	2934	8511	18184
59.0	2828	8608	16738
60.0	2874	8383	17825
61.0	2662	7540	17699
62.0	2551	7784	16007
63.0	2544	8056	15958
64.0	2589	7578	16065
65.0	2456	7425	15993
66.0	2380	7423	16024
67.0	2558	7004	15239
68.0	2541	7168	14607
69.0	2478	6928	14329
70.0	2289	7125	13223
71.0	2417	6597	14788
72.0	2405	6753	14924
73.0	2225	6274	12902
74.0	2091	6065	13808
75.0	2070	6086	13044
76.0	2128	6244	13072
77.0	2011	6248	12725
78.0	2137	5950	12498
79.0	2071	5651	12802
80.0	1922	5934	11733
81.0	2002	5726	12342
82.0	1846	5430	12392
83.0	1853	5368	10640
84.0	1724	5414	11491
85.0	1865	5074	10761
86.0	1745	5190	11597
87.0	1705	5367	11488
88.0	1746	5050	11037
89.0	1779	5100	10638
90.0	1701	4982	10640
91.0	1670	4977	10021
92.0	1759	4678	10045
93.0	1730	5083	10092
94.0	1569	4890	9596
95.0	1572	4853	9899
96.0	1598	4617	9578
97.0	1549	4423	9491
98.0	1515	4549	9369
99.0	1485	4257	9151
100.0	1391	4569	9050
101.0	1534	4269	8389

Food size	500
MAS size	10000
Food count	100
Step	1
Units	100

