SAS Program for RBF-33 Design

Obs	X1	X2	blck_bmi	X3
1	Govt_job	formerly	bmi1	112.95
2	Govt_job	formerly	bmi1	86.91
3	Govt_job	formerly	bmi2	223.35
4	Govt_job	formerly	bmi1	63.16
5	Govt_job	formerly	bmi3	71.79
6	Govt_job	formerly	bmi3	72.94
7	Govt_job	formerly	bmi3	93.71
8	Govt_job	formerly	bmi2	244.28
9	Govt_job	formerly	bmi3	167.59
10	Govt_job	formerly	bmi1	88.65
11	Govt_job	formerly	bmi1	112.33
12	Govt_job	formerly	bmi1	103.55
13	Govt_job	formerly	bmi3	110.36
14	Govt_job	formerly	bmi1	97.86
15	Govt_job	formerly	bmi2	55.57
16	Govt_job	formerly	bmi3	57.02
17	Govt_job	formerly	bmi3	88.66
18	Govt_job	formerly	bmi1	91.65
19	Govt_job	formerly	bmi3	219.80
20	Govt_job	formerly	bmi2	57.17
21	Govt_job	formerly	bmi3	208.39
22	Govt_job	formerly	bmi2	60.34
23	Govt_job	formerly	bmi3	85.64
24	Govt_job	formerly	bmi2	58.29
25	Govt_job	formerly	bmi1	217.94
26	Govt_job	formerly	bmi1	157.67
27	Govt_job	formerly	bmi3	88.81
28	Govt_job	formerly	bmi3	79.92
29	Govt_job	formerly	bmi2	78.92
30	Govt_job	formerly	bmi3	227.89
31	Govt_job	formerly	bmi2	105.72
32	Govt_job	formerly	bmi3	72.20

33	Govt_job	formerly	bmi2	103.43
34	Govt_job	formerly	bmi3	239.64
35	Govt_job	formerly	bmi2	61.94
36	Govt_job	formerly	bmi3	95.07
37	Govt_job	formerly	bmi3	85.62
38	Govt_job	formerly	bmi3	95.16
39	Govt_job	formerly	bmi2	121.17
40	Govt_job	formerly	bmi3	103.44
41	Govt_job	formerly	bmi2	80.88
42	Govt_job	formerly	bmi2	118.82
43	Govt_job	formerly	bmi2	96.75
44	Govt_job	formerly	bmi3	112.98
45	Govt_job	formerly	bmi3	80.01
46	Govt_job	formerly	bmi2	59.74
47	Govt_job	formerly	bmi2	83.60
48	Govt_job	formerly	bmi2	107.33
49	Govt_job	formerly	bmi2	143.47
50	Govt_job	formerly	bmi2	62.99
51	Govt_job	formerly	bmi2	73.56
52	Govt_job	formerly	bmi1	83.84
53	Govt_job	formerly	bmi2	98.44
54	Govt_job	formerly	bmi3	219.50
55	Govt_job	formerly	bmi2	200.73
56	Govt_job	formerly	bmi3	72.49
57	Govt_job	formerly	bmi2	74.23
58	Govt_job	formerly	bmi1	87.24
59	Govt_job	formerly	bmi1	93.93
60	Govt_job	formerly	bmi2	94.24
61	Govt_job	formerly	bmi3	89.95
62	Govt_job	formerly	bmi3	75.53
63	Govt_job	formerly	bmi3	73.36
64	Govt_job	formerly	bmi3	235.06
65	Govt_job	formerly	bmi2	108.56
66	Govt_job	formerly	bmi3	75.28
67	Govt_job	formerly	bmi2	200.59

	Govt_job	formerly	bmi3	99.76
69	Govt_job	formerly	bmi2	106.97
70	Govt_job	formerly	bmi3	77.53
71	Govt_job	formerly	bmi3	78.93
72	Govt_job	formerly	bmi1	85.03
73	Govt_job	formerly	bmi1	96.25
74	Govt_job	formerly	bmi2	99.44
75	Govt_job	formerly	bmi2	84.46
76	Govt_job	formerly	bmi3	208.20
77	Govt_job	formerly	bmi2	215.94
78	Govt_job	formerly	bmi3	65.70
79	Govt_job	formerly	bmi2	217.66
80	Govt_job	formerly	bmi3	111.99
81	Govt_job	formerly	bmi2	101.19
82	Govt_job	formerly	bmi3	203.44
83	Govt_job	formerly	bmi3	81.00
84	Govt_job	formerly	bmi3	255.17
85	Govt_job	formerly	bmi3	58.23
86	Govt_job	formerly	bmi2	215.33
87	Govt_job	formerly	bmi3	100.12
88	Govt_job	formerly	bmi3	216.19
89	Govt_job	formerly	bmi1	99.64
90	Govt_job	formerly	bmi3	76.12
91	Govt_job	formerly	bmi3	205.01
92	Govt_job	formerly	bmi3	110.60
93	Govt_job	formerly	bmi2	94.76
94	Govt_job	formerly	bmi3	182.22
95	Govt_job	formerly	bmi1	118.22
96	Govt_job	formerly	bmi3	116.55
97	Govt_job	formerly	bmi3	97.40
98	Govt_job	formerly	bmi3	55.27
99	Govt_job	formerly	bmi1	107.84
100	Govt_job	formerly	bmi3	84.40
101	Govt_job	never_sm	bmi3	155.23
102	Govt_job	never_sm	bmi3	66.13

	Govt_job	never_sm	bmi3	59.62
104	Govt_job	never_sm	bmi1	166.38
105	Govt_job	never_sm	bmi3	65.66
106	Govt_job	never_sm	bmi1	231.15
107	Govt_job	never_sm	bmi3	73.02
108	Govt_job	never_sm	bmi3	187.52
109	Govt_job	never_sm	bmi2	77.67
110	Govt_job	never_sm	bmi3	62.41
111	Govt_job	never_sm	bmi1	60.36
112	Govt_job	never_sm	bmi3	111.73
113	Govt_job	never_sm	bmi2	223.14
114	Govt_job	never_sm	bmi1	81.10
115	Govt_job	never_sm	bmi3	82.37
116	Govt_job	never_sm	bmi3	64.99
117	Govt_job	never_sm	bmi2	84.10
118	Govt_job	never_sm	bmi3	99.65
119	Govt_job	never_sm	bmi3	80.28
120	Govt_job	never_sm	bmi2	192.50
121	Govt_job	never_sm	bmi3	101.35
122	Govt_job	never_sm	bmi2	124.37
123	Govt_job	never_sm	bmi2	194.04
124	Govt_job	never_sm	bmi3	73.71
125	Govt_job	never_sm	bmi1	112.62
126	Govt_job	never_sm	bmi3	99.94
127	Govt_job	never_sm	bmi3	192.47
128	Govt_job	never_sm	bmi2	74.72
129	Govt_job	never_sm	bmi3	100.93
130	Govt_job	never_sm	bmi3	87.33
131	Govt_job	never_sm	bmi2	111.85
132	Govt_job	never_sm	bmi1	124.45
133	Govt_job	never_sm	bmi3	153.38
134	Govt_job	never_sm	bmi2	76.82
135	Govt_job	never_sm	bmi2	146.08
136	Govt_job	never_sm	bmi2	89.61
137	Govt_job	never_sm	bmi2	90.11

	Govt_job	never_sm	bmi3	72.13
139	Govt_job	never_sm	bmi3	78.24
140	Govt_job	never_sm	bmi1	83.78
141	Govt_job	never_sm	bmi1	84.66
142	Govt_job	never_sm	bmi3	204.92
143	Govt_job	never_sm	bmi3	244.30
144	Govt_job	never_sm	bmi3	88.88
145	Govt_job	never_sm	bmi3	107.50
146	Govt_job	never_sm	bmi3	115.07
147	Govt_job	never_sm	bmi3	176.78
148	Govt_job	never_sm	bmi3	85.59
149	Govt_job	never_sm	bmi3	76.98
150	Govt_job	never_sm	bmi2	64.40
151	Govt_job	never_sm	bmi2	206.33
152	Govt_job	never_sm	bmi1	74.80
153	Govt_job	never_sm	bmi2	183.87
154	Govt_job	never_sm	bmi3	216.07
155	Govt_job	never_sm	bmi2	100.97
156	Govt_job	never_sm	bmi3	90.55
157	Govt_job	never_sm	bmi2	82.81
158	Govt_job	never_sm	bmi1	115.99
159	Govt_job	never_sm	bmi3	65.93
160	Govt_job	never_sm	bmi3	64.17
161	Govt_job	never_sm	bmi1	104.86
162	Govt_job	never_sm	bmi2	123.04
163	Govt_job	never_sm	bmi1	133.58
164	Govt_job	never_sm	bmi2	85.17
165	Govt_job	never_sm	bmi3	69.11
166	Govt_job	never_sm	bmi3	86.39
167	Govt_job	never_sm	bmi3	120.06
168	Govt_job	never_sm	bmi3	105.52
169	Govt_job	never_sm	bmi1	237.74
170	Govt_job	never_sm	bmi3	79.98
171	Govt_job	never_sm	bmi2	73.04
172	Govt_job	never_sm	bmi3	88.00

	Govt_job	never_sm	bmi2	68.68
174	Govt_job	never_sm	bmi2	131.41
175	Govt_job	never_sm	bmi2	129.43
176	Govt_job	never_sm	bmi2	67.07
177	Govt_job	never_sm	bmi3	74.29
178	Govt_job	never_sm	bmi1	93.93
179	Govt_job	never_sm	bmi2	117.69
180	Govt_job	never_sm	bmi2	59.43
181	Govt_job	never_sm	bmi2	69.17
182	Govt_job	never_sm	bmi1	115.93
183	Govt_job	never_sm	bmi3	113.85
184	Govt_job	never_sm	bmi1	211.12
185	Govt_job	never_sm	bmi2	266.59
186	Govt_job	never_sm	bmi3	56.63
187	Govt_job	never_sm	bmi3	92.59
188	Govt_job	never_sm	bmi3	158.33
189	Govt_job	never_sm	bmi3	92.13
190	Govt_job	never_sm	bmi3	70.28
191	Govt_job	never_sm	bmi2	96.18
192	Govt_job	never_sm	bmi1	98.91
193	Govt_job	never_sm	bmi2	87.49
194	Govt_job	never_sm	bmi2	83.88
195	Govt_job	never_sm	bmi3	105.77
196	Govt_job	never_sm	bmi1	197.11
197	Govt_job	never_sm	bmi2	91.61
198	Govt_job	never_sm	bmi3	90.21
199	Govt_job	never_sm	bmi3	210.94
200	Govt_job	never_sm	bmi3	151.25
201	Govt_job	smokes	bmi3	86.36
202	Govt_job	smokes	bmi1	87.25
203	Govt_job	smokes	bmi2	96.29
204	Govt_job	smokes	bmi1	56.89
205	Govt_job	smokes	bmi2	104.00
206	Govt_job	smokes	bmi3	214.43
207	Govt_job	smokes	bmi3	218.54

	Govt_job	smokes	bmi1	95.19
209	Govt_job	smokes	bmi3	84.47
210	Govt_job	smokes	bmi3	118.82
211	Govt_job	smokes	bmi3	200.49
212	Govt_job	smokes	bmi3	113.40
213	Govt_job	smokes	bmi1	91.93
214	Govt_job	smokes	bmi3	106.01
215	Govt_job	smokes	bmi1	72.79
216	Govt_job	smokes	bmi2	66.01
217	Govt_job	smokes	bmi3	90.30
218	Govt_job	smokes	bmi1	111.79
219	Govt_job	smokes	bmi3	89.18
220	Govt_job	smokes	bmi1	83.61
221	Govt_job	smokes	bmi3	82.47
222	Govt_job	smokes	bmi1	104.55
223	Govt_job	smokes	bmi3	74.81
224	Govt_job	smokes	bmi3	83.10
225	Govt_job	smokes	bmi3	97.60
226	Govt_job	smokes	bmi3	87.26
227	Govt_job	smokes	bmi2	100.20
228	Govt_job	smokes	bmi3	110.55
229	Govt_job	smokes	bmi2	121.66
230	Govt_job	smokes	bmi2	82.72
231	Govt_job	smokes	bmi2	82.44
232	Govt_job	smokes	bmi2	102.40
233	Govt_job	smokes	bmi2	75.56
234	Govt_job	smokes	bmi2	82.46
235	Govt_job	smokes	bmi3	87.85
236	Govt_job	smokes	bmi3	56.37
237	Govt_job	smokes	bmi3	120.46
238	Govt_job	smokes	bmi2	79.79
239	Govt_job	smokes	bmi2	67.50
240	Govt_job	smokes	bmi3	84.43
241	Govt_job	smokes	bmi2	198.36
242	Govt_job	smokes	bmi2	79.73

	Govt_job	smokes	bmi3	111.61
244	Govt_job	smokes	bmi2	114.32
245	Govt_job	smokes	bmi1	56.12
246	Govt_job	smokes	bmi1	103.15
247	Govt_job	smokes	bmi3	65.12
248	Govt_job	smokes	bmi3	90.31
249	Govt_job	smokes	bmi3	82.09
250	Govt_job	smokes	bmi1	55.47
251	Govt_job	smokes	bmi1	80.88
252	Govt_job	smokes	bmi3	229.86
253	Govt_job	smokes	bmi3	82.02
254	Govt_job	smokes	bmi3	216.00
255	Govt_job	smokes	bmi3	133.24
256	Govt_job	smokes	bmi1	111.10
257	Govt_job	smokes	bmi3	73.54
258	Govt_job	smokes	bmi3	154.03
259	Govt_job	smokes	bmi2	101.81
260	Govt_job	smokes	bmi3	103.08
261	Govt_job	smokes	bmi2	83.01
262	Govt_job	smokes	bmi3	87.62
263	Govt_job	smokes	bmi3	95.75
264	Govt_job	smokes	bmi3	226.93
265	Govt_job	smokes	bmi3	71.71
266	Govt_job	smokes	bmi3	64.40
267	Govt_job	smokes	bmi3	160.76
268	Govt_job	smokes	bmi2	73.75
269	Govt_job	smokes	bmi2	85.53
270	Govt_job	smokes	bmi3	74.11
271	Govt_job	smokes	bmi2	69.88
272	Govt_job	smokes	bmi3	219.39
273	Govt_job	smokes	bmi2	69.23
274	Govt_job	smokes	bmi3	92.32
275	Govt_job	smokes	bmi2	99.69
276	Govt_job	smokes	bmi2	72.53
277	Govt_job	smokes	bmi3	80.86

	Govt_job	smokes	bmi3	100.31
279	Govt_job	smokes	bmi1	162.24
280	Govt_job	smokes	bmi3	113.05
281	Govt_job	smokes	bmi2	73.07
282	Govt_job	smokes	bmi2	101.81
283	Govt_job	smokes	bmi3	77.99
284	Govt_job	smokes	bmi3	81.38
285	Govt_job	smokes	bmi1	101.41
286	Govt_job	smokes	bmi3	81.60
287	Govt_job	smokes	bmi1	193.94
288	Govt_job	smokes	bmi2	124.64
289	Govt_job	smokes	bmi2	56.96
290	Govt_job	smokes	bmi1	57.33
291	Govt_job	smokes	bmi3	70.53
292	Govt_job	smokes	bmi3	73.48
293	Govt_job	smokes	bmi3	72.96
294	Govt_job	smokes	bmi3	87.10
295	Govt_job	smokes	bmi1	213.03
296	Govt_job	smokes	bmi3	66.67
297	Govt_job	smokes	bmi2	113.63
298	Govt_job	smokes	bmi3	79.59
299	Govt_job	smokes	bmi3	98.61
300	Govt_job	smokes	bmi2	223.64
301	Private	formerly	bmi2	63.41
302	Private	formerly	bmi1	76.46
303	Private	formerly	bmi2	94.65
304	Private	formerly	bmi3	78.29
305	Private	formerly	bmi2	85.04
306	Private	formerly	bmi1	65.42
307	Private	formerly	bmi2	60.22
308	Private	formerly	bmi2	92.99
309	Private	formerly	bmi3	75.77
310	Private	formerly	bmi2	58.69
311	Private	formerly	bmi3	115.52
312	Private	formerly	bmi2	89.18

	Private	formerly	bmi3	67.29
314	Private	formerly	bmi3	106.08
315	Private	formerly	bmi3	93.72
316	Private	formerly	bmi2	111.37
317	Private	formerly	bmi3	97.89
318	Private	formerly	bmi1	97.47
319	Private	formerly	bmi1	62.46
320	Private	formerly	bmi1	62.62
321	Private	formerly	bmi3	216.70
322	Private	formerly	bmi2	221.06
323	Private	formerly	bmi3	68.76
324	Private	formerly	bmi2	102.87
325	Private	formerly	bmi3	96.84
326	Private	formerly	bmi3	106.53
327	Private	formerly	bmi3	77.99
328	Private	formerly	bmi2	97.58
329	Private	formerly	bmi2	234.35
330	Private	formerly	bmi3	75.13
331	Private	formerly	bmi3	223.83
332	Private	formerly	bmi2	106.52
333	Private	formerly	bmi3	101.95
334	Private	formerly	bmi2	85.29
335	Private	formerly	bmi3	185.17
336	Private	formerly	bmi2	109.65
337	Private	formerly	bmi2	83.07
338	Private	formerly	bmi3	111.65
339	Private	formerly	bmi3	238.78
340	Private	formerly	bmi2	70.16
341	Private	formerly	bmi2	83.97
342	Private	formerly	bmi3	58.42
343	Private	formerly	bmi1	84.48
344	Private	formerly	bmi3	197.28
345	Private	formerly	bmi2	109.59
346	Private	formerly	bmi2	87.81
347	Private	formerly	bmi3	72.02

	Private	formerly	bmi3	86.94
349	Private	formerly	bmi1	65.01
350	Private	formerly	bmi3	82.06
351	Private	formerly	bmi3	95.38
352	Private	formerly	bmi1	110.85
353	Private	formerly	bmi3	106.83
354	Private	formerly	bmi3	74.63
355	Private	formerly	bmi3	66.46
356	Private	formerly	bmi2	60.20
357	Private	formerly	bmi2	120.94
358	Private	formerly	bmi3	209.50
359	Private	formerly	bmi2	116.66
360	Private	formerly	bmi2	79.34
361	Private	formerly	bmi2	117.63
362	Private	formerly	bmi1	63.32
363	Private	formerly	bmi2	101.46
364	Private	formerly	bmi2	105.28
365	Private	formerly	bmi1	69.26
366	Private	formerly	bmi1	74.12
367	Private	formerly	bmi1	65.66
368	Private	formerly	bmi2	81.99
369	Private	formerly	bmi2	61.80
370	Private	formerly	bmi1	89.21
371	Private	formerly	bmi3	84.09
372	Private	formerly	bmi1	82.71
373	Private	formerly	bmi2	57.82
374	Private	formerly	bmi2	186.21
375	Private	formerly	bmi3	226.11
376	Private	formerly	bmi3	83.30
377	Private	formerly	bmi3	114.50
378	Private	formerly	bmi3	83.89
379	Private	formerly	bmi2	116.20
380	Private	formerly	bmi2	170.22
381	Private	formerly	bmi1	125.11
382	Private	formerly	bmi2	56.48

	Private	formerly	bmi3	57.89
384	Private	formerly	bmi2	74.70
385	Private	formerly	bmi3	216.64
386	Private	formerly	bmi3	80.81
387	Private	formerly	bmi3	94.34
388	Private	formerly	bmi2	83.93
389	Private	formerly	bmi3	74.14
390	Private	formerly	bmi3	56.11
391	Private	formerly	bmi3	209.26
392	Private	formerly	bmi2	88.41
393	Private	formerly	bmi3	229.20
394	Private	formerly	bmi3	220.36
395	Private	formerly	bmi3	63.71
396	Private	formerly	bmi1	68.34
397	Private	formerly	bmi3	78.11
398	Private	formerly	bmi2	99.12
399	Private	formerly	bmi2	82.83
400	Private	formerly	bmi3	102.48
401	Private	never_sm	bmi3	86.97
402	Private	never_sm	bmi3	195.25
403	Private	never_sm	bmi3	79.91
404	Private	never_sm	bmi1	92.86
405	Private	never_sm	bmi3	102.13
406	Private	never_sm	bmi3	79.33
407	Private	never_sm	bmi1	109.22
408	Private	never_sm	bmi1	122.46
409	Private	never_sm	bmi3	75.87
410	Private	never_sm	bmi3	123.10
411	Private	never_sm	bmi1	131.43
412	Private	never_sm	bmi3	216.71
413	Private	never_sm	bmi2	117.77
414	Private	never_sm	bmi2	81.78
415	Private	never_sm	bmi3	85.46
416	Private	never_sm	bmi2	82.89
417	Private	never_sm	bmi2	199.18

	Private	never_sm	bmi3	75.77
419	Private	never_sm	bmi2	123.94
420	Private	never_sm	bmi2	116.23
421	Private	never_sm	bmi1	141.37
422	Private	never_sm	bmi2	112.96
423	Private	never_sm	bmi2	71.08
424	Private	never_sm	bmi3	145.23
425	Private	never_sm	bmi2	75.95
426	Private	never_sm	bmi3	83.51
427	Private	never_sm	bmi3	267.60
428	Private	never_sm	bmi2	76.19
429	Private	never_sm	bmi3	89.22
430	Private	never_sm	bmi3	105.51
431	Private	never_sm	bmi2	62.48
432	Private	never_sm	bmi2	91.46
433	Private	never_sm	bmi1	65.69
434	Private	never_sm	bmi3	145.25
435	Private	never_sm	bmi1	83.85
436	Private	never_sm	bmi3	61.11
437	Private	never_sm	bmi3	231.76
438	Private	never_sm	bmi2	99.48
439	Private	never_sm	bmi2	226.98
440	Private	never_sm	bmi3	172.86
441	Private	never_sm	bmi3	65.42
442	Private	never_sm	bmi2	110.38
443	Private	never_sm	bmi3	80.40
444	Private	never_sm	bmi2	69.24
445	Private	never_sm	bmi2	80.00
446	Private	never_sm	bmi3	209.50
447	Private	never_sm	bmi2	100.80
448	Private	never_sm	bmi1	79.58
449	Private	never_sm	bmi2	94.19
450	Private	never_sm	bmi1	70.61
451	Private	never_sm	bmi3	109.46
452	Private	never_sm	bmi2	77.95

	Private	never_sm	bmi2	95.52
454	Private	never_sm	bmi2	90.51
455	Private	never_sm	bmi1	133.82
456	Private	never_sm	bmi3	82.18
457	Private	never_sm	bmi3	71.30
458	Private	never_sm	bmi3	185.27
459	Private	never_sm	bmi1	67.92
460	Private	never_sm	bmi2	80.97
461	Private	never_sm	bmi2	91.01
462	Private	never_sm	bmi3	81.68
463	Private	never_sm	bmi3	249.31
464	Private	never_sm	bmi3	87.40
465	Private	never_sm	bmi3	86.06
466	Private	never_sm	bmi1	70.11
467	Private	never_sm	bmi3	69.40
468	Private	never_sm	bmi3	74.91
469	Private	never_sm	bmi1	75.04
470	Private	never_sm	bmi2	98.05
471	Private	never_sm	bmi2	80.08
472	Private	never_sm	bmi2	96.02
473	Private	never_sm	bmi3	119.52
474	Private	never_sm	bmi3	85.84
475	Private	never_sm	bmi3	89.33
476	Private	never_sm	bmi1	76.93
477	Private	never_sm	bmi2	99.92
478	Private	never_sm	bmi3	78.18
479	Private	never_sm	bmi3	204.63
480	Private	never_sm	bmi1	122.25
481	Private	never_sm	bmi2	106.56
482	Private	never_sm	bmi3	56.42
483	Private	never_sm	bmi1	90.60
484	Private	never_sm	bmi2	119.13
485	Private	never_sm	bmi1	93.05
486	Private	never_sm	bmi3	89.68
487	Private	never_sm	bmi2	111.48

	Private	never_sm	bmi2	68.72
489	Private	never_sm	bmi3	66.30
490	Private	never_sm	bmi3	78.29
491	Private	never_sm	bmi1	98.02
492	Private	never_sm	bmi3	84.31
493	Private	never_sm	bmi3	93.90
494	Private	never_sm	bmi3	82.64
495	Private	never_sm	bmi2	107.82
496	Private	never_sm	bmi1	93.80
497	Private	never_sm	bmi3	65.16
498	Private	never_sm	bmi2	64.45
499	Private	never_sm	bmi3	107.46
500	Private	never_sm	bmi1	96.98
501	Private	smokes	bmi3	77.75
502	Private	smokes	bmi2	67.78
503	Private	smokes	bmi3	129.54
504	Private	smokes	bmi3	78.49
505	Private	smokes	bmi3	57.76
506	Private	smokes	bmi3	76.68
507	Private	smokes	bmi2	103.45
508	Private	smokes	bmi3	240.59
509	Private	smokes	bmi3	87.88
510	Private	smokes	bmi2	142.64
511	Private	smokes	bmi2	83.16
512	Private	smokes	bmi1	82.53
513	Private	smokes	bmi2	66.55
514	Private	smokes	bmi3	202.05
515	Private	smokes	bmi3	200.66
516	Private	smokes	bmi2	127.21
517	Private	smokes	bmi2	93.60
518	Private	smokes	bmi2	250.89
519	Private	smokes	bmi1	73.78
520	Private	smokes	bmi2	87.72
521	Private	smokes	bmi1	90.95
522	Private	smokes	bmi1	95.66

	Private	smokes	bmi3	123.65
524	Private	smokes	bmi3	173.14
525	Private	smokes	bmi2	86.55
526	Private	smokes	bmi3	100.88
527	Private	smokes	bmi1	83.10
528	Private	smokes	bmi3	72.33
529	Private	smokes	bmi3	135.75
530	Private	smokes	bmi3	133.76
531	Private	smokes	bmi3	222.21
532	Private	smokes	bmi3	59.31
533	Private	smokes	bmi3	77.77
534	Private	smokes	bmi1	61.32
535	Private	smokes	bmi3	122.48
536	Private	smokes	bmi3	77.93
537	Private	smokes	bmi3	92.75
538	Private	smokes	bmi1	242.84
539	Private	smokes	bmi2	96.30
540	Private	smokes	bmi1	89.98
541	Private	smokes	bmi3	90.73
542	Private	smokes	bmi2	221.29
543	Private	smokes	bmi1	65.41
544	Private	smokes	bmi2	70.73
545	Private	smokes	bmi2	225.35
546	Private	smokes	bmi1	100.54
547	Private	smokes	bmi2	90.61
548	Private	smokes	bmi2	70.56
549	Private	smokes	bmi3	93.96
550	Private	smokes	bmi3	254.95
551	Private	smokes	bmi1	97.73
552	Private	smokes	bmi2	64.41
553	Private	smokes	bmi2	131.19
554	Private	smokes	bmi3	87.12
555	Private	smokes	bmi1	85.18
556	Private	smokes	bmi1	63.82
557	Private	smokes	bmi3	59.26

	Private	smokes	bmi3	242.30
559	Private	smokes	bmi2	80.35
560	Private	smokes	bmi3	93.51
561	Private	smokes	bmi1	206.66
562	Private	smokes	bmi2	75.50
563	Private	smokes	bmi3	122.41
564	Private	smokes	bmi1	110.47
565	Private	smokes	bmi3	94.96
566	Private	smokes	bmi3	145.18
567	Private	smokes	bmi3	58.09
568	Private	smokes	bmi2	105.63
569	Private	smokes	bmi3	206.52
570	Private	smokes	bmi3	97.95
571	Private	smokes	bmi2	191.48
572	Private	smokes	bmi2	81.25
573	Private	smokes	bmi3	61.45
574	Private	smokes	bmi3	100.42
575	Private	smokes	bmi2	82.61
576	Private	smokes	bmi3	139.90
577	Private	smokes	bmi1	118.85
578	Private	smokes	bmi3	102.16
579	Private	smokes	bmi3	108.82
580	Private	smokes	bmi3	95.57
581	Private	smokes	bmi2	144.16
582	Private	smokes	bmi2	60.06
583	Private	smokes	bmi1	89.68
584	Private	smokes	bmi2	60.77
585	Private	smokes	bmi1	102.07
586	Private	smokes	bmi3	57.51
587	Private	smokes	bmi3	114.33
588	Private	smokes	bmi1	112.77
589	Private	smokes	bmi1	60.69
590	Private	smokes	bmi2	79.83
591	Private	smokes	bmi2	86.99
592	Private	smokes	bmi3	116.85

	Private	smokes	bmi2	144.48
594	Private	smokes	bmi2	73.27
595	Private	smokes	bmi2	85.17
596	Private	smokes	bmi3	106.41
597	Private	smokes	bmi2	75.74
598	Private	smokes	bmi1	99.72
599	Private	smokes	bmi3	107.22
600	Private	smokes	bmi3	71.42
601	Self-emp	smokes	bmi2	70.07
602	Self-emp	smokes	bmi3	104.42
603	Self-emp	smokes	bmi1	128.63
604	Self-emp	smokes	bmi3	90.68
605	Self-emp	smokes	bmi2	97.76
606	Self-emp	smokes	bmi3	206.59
607	Self-emp	smokes	bmi2	111.94
608	Self-emp	smokes	bmi3	182.90
609	Self-emp	smokes	bmi3	132.08
610	Self-emp	smokes	bmi1	126.39
611	Self-emp	smokes	bmi3	207.32
612	Self-emp	smokes	bmi2	114.45
613	Self-emp	smokes	bmi3	73.41
614	Self-emp	smokes	bmi1	110.33
615	Self-emp	smokes	bmi2	93.17
616	Self-emp	smokes	bmi3	139.87
617	Self-emp	smokes	bmi3	86.40
618	Self-emp	smokes	bmi2	67.84
619	Self-emp	smokes	bmi3	84.31
620	Self-emp	smokes	bmi1	160.64
621	Self-emp	smokes	bmi3	106.10
622	Self-emp	smokes	bmi1	68.44
623	Self-emp	smokes	bmi3	128.04
624	Self-emp	smokes	bmi3	135.19
625	Self-emp	smokes	bmi2	67.06
626	Self-emp	smokes	bmi3	251.46
627	Self-emp	smokes	bmi2	83.64

	Self-emp	smokes	bmi2	229.92
629	Self-emp	smokes	bmi1	82.85
630	Self-emp	smokes	bmi2	94.71
631	Self-emp	smokes	bmi3	103.69
632	Self-emp	smokes	bmi3	95.01
633	Self-emp	smokes	bmi3	84.43
634	Self-emp	smokes	bmi3	97.99
635	Self-emp	smokes	bmi3	85.92
636	Self-emp	smokes	bmi3	99.83
637	Self-emp	smokes	bmi3	93.58
638	Self-emp	smokes	bmi2	76.11
639	Self-emp	smokes	bmi2	65.71
640	Self-emp	smokes	bmi1	70.43
641	Self-emp	smokes	bmi2	62.93
642	Self-emp	smokes	bmi3	201.45
643	Self-emp	smokes	bmi3	239.95
644	Self-emp	smokes	bmi3	114.54
645	Self-emp	smokes	bmi3	90.38
646	Self-emp	smokes	bmi3	142.31
647	Self-emp	smokes	bmi2	55.32
648	Self-emp	smokes	bmi2	76.09
649	Self-emp	smokes	bmi2	123.08
650	Self-emp	smokes	bmi1	60.77
651	Self-emp	smokes	bmi2	195.23
652	Self-emp	smokes	bmi1	101.57
653	Self-emp	smokes	bmi2	68.37
654	Self-emp	smokes	bmi2	248.24
655	Self-emp	smokes	bmi3	92.90
656	Self-emp	smokes	bmi2	69.76
657	Self-emp	smokes	bmi1	65.84
658	Self-emp	smokes	bmi2	85.51
659	Self-emp	smokes	bmi2	73.72
660	Self-emp	smokes	bmi2	82.62
661	Self-emp	smokes	bmi2	109.09
662	Self-emp	smokes	bmi1	231.43

	Self-emp	smokes	bmi2	90.06
664	Self-emp	smokes	bmi2	67.97
665	Self-emp	smokes	bmi1	98.39
666	Self-emp	smokes	bmi3	142.63
667	Self-emp	smokes	bmi2	80.92
668	Self-emp	smokes	bmi3	111.15
669	Self-emp	smokes	bmi2	77.82
670	Self-emp	smokes	bmi1	93.20
671	Self-emp	smokes	bmi2	97.53
672	Self-emp	smokes	bmi3	113.74
673	Self-emp	smokes	bmi1	104.23
674	Self-emp	smokes	bmi2	61.94
675	Self-emp	smokes	bmi3	105.59
676	Self-emp	smokes	bmi2	95.44
677	Self-emp	smokes	bmi1	100.49
678	Self-emp	smokes	bmi2	75.25
679	Self-emp	smokes	bmi3	249.29
680	Self-emp	smokes	bmi2	94.75
681	Self-emp	smokes	bmi2	267.61
682	Self-emp	smokes	bmi3	232.89
683	Self-emp	smokes	bmi2	83.07
684	Self-emp	smokes	bmi2	74.33
685	Self-emp	smokes	bmi3	105.88
686	Self-emp	smokes	bmi3	90.43
687	Self-emp	smokes	bmi3	95.49
688	Self-emp	smokes	bmi3	191.82
689	Self-emp	smokes	bmi1	136.81
690	Self-emp	smokes	bmi2	73.57
691	Self-emp	smokes	bmi2	106.43
692	Self-emp	smokes	bmi2	61.10
693	Self-emp	smokes	bmi3	69.18
694	Self-emp	smokes	bmi1	57.83
695	Self-emp	smokes	bmi2	101.85
696	Self-emp	smokes	bmi3	114.47
697	Self-emp	smokes	bmi3	118.03

	Self-emp	smokes	bmi3	63.72
699	Self-emp	smokes	bmi3	248.37
700	Self-emp	smokes	bmi3	88.83
701	Self-emp	never_sm	bmi1	87.56
702	Self-emp	never_sm	bmi2	117.75
703	Self-emp	never_sm	bmi2	69.77
704	Self-emp	never_sm	bmi2	72.71
705	Self-emp	never_sm	bmi2	92.98
706	Self-emp	never_sm	bmi1	73.36
707	Self-emp	never_sm	bmi1	55.46
708	Self-emp	never_sm	bmi2	71.12
709	Self-emp	never_sm	bmi2	58.01
710	Self-emp	never_sm	bmi2	198.12
711	Self-emp	never_sm	bmi1	62.63
712	Self-emp	never_sm	bmi2	84.88
713	Self-emp	never_sm	bmi3	75.39
714	Self-emp	never_sm	bmi3	82.84
715	Self-emp	never_sm	bmi3	118.89
716	Self-emp	never_sm	bmi3	216.38
717	Self-emp	never_sm	bmi3	202.57
718	Self-emp	never_sm	bmi2	76.51
719	Self-emp	never_sm	bmi3	86.33
720	Self-emp	never_sm	bmi2	79.70
721	Self-emp	never_sm	bmi3	79.20
722	Self-emp	never_sm	bmi3	203.76
723	Self-emp	never_sm	bmi3	55.96
724	Self-emp	never_sm	bmi1	125.87
725	Self-emp	never_sm	bmi3	68.02
726	Self-emp	never_sm	bmi2	85.66
727	Self-emp	never_sm	bmi2	82.07
728	Self-emp	never_sm	bmi3	67.90
729	Self-emp	never_sm	bmi3	83.34
730	Self-emp	never_sm	bmi3	113.41
731	Self-emp	never_sm	bmi3	72.17
732	Self-emp	never_sm	bmi2	72.61

	Self-emp	never_sm	bmi2	61.10
734	Self-emp	never_sm	bmi3	112.12
735	Self-emp	never_sm	bmi3	110.10
736	Self-emp	never_sm	bmi2	88.47
737	Self-emp	never_sm	bmi2	67.97
738	Self-emp	never_sm	bmi1	246.34
739	Self-emp	never_sm	bmi1	73.06
740	Self-emp	never_sm	bmi3	178.29
741	Self-emp	never_sm	bmi3	74.88
742	Self-emp	never_sm	bmi1	66.69
743	Self-emp	never_sm	bmi2	63.53
744	Self-emp	never_sm	bmi3	113.21
745	Self-emp	never_sm	bmi2	55.83
746	Self-emp	never_sm	bmi3	99.33
747	Self-emp	never_sm	bmi3	64.18
748	Self-emp	never_sm	bmi3	181.23
749	Self-emp	never_sm	bmi3	88.10
750	Self-emp	never_sm	bmi1	81.77
751	Self-emp	never_sm	bmi2	90.19
752	Self-emp	never_sm	bmi1	97.25
753	Self-emp	never_sm	bmi3	126.04
754	Self-emp	never_sm	bmi2	83.52
755	Self-emp	never_sm	bmi3	74.79
756	Self-emp	never_sm	bmi3	225.47
757	Self-emp	never_sm	bmi3	92.87
758	Self-emp	never_sm	bmi2	140.39
759	Self-emp	never_sm	bmi3	91.54
760	Self-emp	never_sm	bmi1	104.12
761	Self-emp	never_sm	bmi2	64.09
762	Self-emp	never_sm	bmi3	112.94
763	Self-emp	never_sm	bmi3	176.71
764	Self-emp	never_sm	bmi2	72.54
765	Self-emp	never_sm	bmi2	95.04
766	Self-emp	never_sm	bmi1	85.84
767	Self-emp	never_sm	bmi2	78.68

	Self-emp	never_sm	bmi3	72.00
769	Self-emp	never_sm	bmi3	67.10
770	Self-emp	never_sm	bmi3	189.45
771	Self-emp	never_sm	bmi1	76.64
772	Self-emp	never_sm	bmi2	63.78
773	Self-emp	never_sm	bmi2	84.49
774	Self-emp	never_sm	bmi3	71.93
775	Self-emp	never_sm	bmi1	141.23
776	Self-emp	never_sm	bmi3	58.65
777	Self-emp	never_sm	bmi1	196.92
778	Self-emp	never_sm	bmi2	90.52
779	Self-emp	never_sm	bmi3	63.19
780	Self-emp	never_sm	bmi2	176.34
781	Self-emp	never_sm	bmi2	174.54
782	Self-emp	never_sm	bmi2	106.41
783	Self-emp	never_sm	bmi3	90.10
784	Self-emp	never_sm	bmi2	74.02
785	Self-emp	never_sm	bmi3	101.56
786	Self-emp	never_sm	bmi3	203.04
787	Self-emp	never_sm	bmi2	206.09
788	Self-emp	never_sm	bmi3	81.96
789	Self-emp	never_sm	bmi1	205.23
790	Self-emp	never_sm	bmi3	73.87
791	Self-emp	never_sm	bmi2	73.98
792	Self-emp	never_sm	bmi1	93.78
793	Self-emp	never_sm	bmi3	139.81
794	Self-emp	never_sm	bmi2	75.27
795	Self-emp	never_sm	bmi3	62.68
796	Self-emp	never_sm	bmi3	187.47
797	Self-emp	never_sm	bmi3	71.70
798	Self-emp	never_sm	bmi3	140.08
799	Self-emp	never_sm	bmi2	69.46
800	Self-emp	never_sm	bmi1	92.39
801	Self-emp	formerly	bmi3	81.76
802	Self-emp	formerly	bmi3	227.51

	Self-emp	formerly	bmi2	80.85
804	Self-emp	formerly	bmi1	59.11
805	Self-emp	formerly	bmi1	104.70
806	Self-emp	formerly	bmi1	79.55
807	Self-emp	formerly	bmi2	97.81
808	Self-emp	formerly	bmi1	75.77
809	Self-emp	formerly	bmi3	74.28
810	Self-emp	formerly	bmi2	78.48
811	Self-emp	formerly	bmi2	105.29
812	Self-emp	formerly	bmi3	198.30
813	Self-emp	formerly	bmi3	114.61
814	Self-emp	formerly	bmi1	82.27
815	Self-emp	formerly	bmi1	93.85
816	Self-emp	formerly	bmi3	99.60
817	Self-emp	formerly	bmi2	206.62
818	Self-emp	formerly	bmi3	62.47
819	Self-emp	formerly	bmi3	99.73
820	Self-emp	formerly	bmi2	79.96
821	Self-emp	formerly	bmi3	212.97
822	Self-emp	formerly	bmi2	199.88
823	Self-emp	formerly	bmi3	77.52
824	Self-emp	formerly	bmi2	74.35
825	Self-emp	formerly	bmi3	99.23
826	Self-emp	formerly	bmi3	82.08
827	Self-emp	formerly	bmi3	80.42
828	Self-emp	formerly	bmi1	114.88
829	Self-emp	formerly	bmi2	69.97
830	Self-emp	formerly	bmi3	67.26
831	Self-emp	formerly	bmi1	67.75
832	Self-emp	formerly	bmi3	208.99
833	Self-emp	formerly	bmi1	57.77
834	Self-emp	formerly	bmi3	101.13
835	Self-emp	formerly	bmi1	71.18
836	Self-emp	formerly	bmi3	74.17
837	Self-emp	formerly	bmi3	103.78

	Self-emp	formerly	bmi2	107.21
839	Self-emp	formerly	bmi1	99.68
840	Self-emp	formerly	bmi2	78.80
841	Self-emp	formerly	bmi3	221.80
842	Self-emp	formerly	bmi2	101.25
843	Self-emp	formerly	bmi1	133.19
844	Self-emp	formerly	bmi3	210.00
845	Self-emp	formerly	bmi3	213.33
846	Self-emp	formerly	bmi1	76.34
847	Self-emp	formerly	bmi3	56.08
848	Self-emp	formerly	bmi1	66.72
849	Self-emp	formerly	bmi2	88.19
850	Self-emp	formerly	bmi2	110.38
851	Self-emp	formerly	bmi2	112.54
852	Self-emp	formerly	bmi3	74.19
853	Self-emp	formerly	bmi3	126.85
854	Self-emp	formerly	bmi1	124.38
855	Self-emp	formerly	bmi3	98.42
856	Self-emp	formerly	bmi1	82.28
857	Self-emp	formerly	bmi1	72.04
858	Self-emp	formerly	bmi2	56.43
859	Self-emp	formerly	bmi3	91.53
860	Self-emp	formerly	bmi3	235.54
861	Self-emp	formerly	bmi1	106.76
862	Self-emp	formerly	bmi2	68.18
863	Self-emp	formerly	bmi1	120.03
864	Self-emp	formerly	bmi3	104.38
865	Self-emp	formerly	bmi3	89.13
866	Self-emp	formerly	bmi1	101.53
867	Self-emp	formerly	bmi1	88.52
868	Self-emp	formerly	bmi2	219.82
869	Self-emp	formerly	bmi1	114.25
870	Self-emp	formerly	bmi3	116.69
871	Self-emp	formerly	bmi2	92.82
872	Self-emp	formerly	bmi2	110.18

	Self-emp	formerly	bmi2	101.32
874	Self-emp	formerly	bmi3	85.12
875	Self-emp	formerly	bmi2	60.67
876	Self-emp	formerly	bmi3	76.35
877	Self-emp	formerly	bmi1	144.23
878	Self-emp	formerly	bmi3	219.92
879	Self-emp	formerly	bmi2	103.25
880	Self-emp	formerly	bmi3	96.77
881	Self-emp	formerly	bmi2	87.69
882	Self-emp	formerly	bmi2	154.60
883	Self-emp	formerly	bmi1	67.50
884	Self-emp	formerly	bmi3	92.26
885	Self-emp	formerly	bmi3	200.28
886	Self-emp	formerly	bmi3	87.79
887	Self-emp	formerly	bmi3	122.73
888	Self-emp	formerly	bmi3	102.89
889	Self-emp	formerly	bmi2	205.97
890	Self-emp	formerly	bmi1	99.67
891	Self-emp	formerly	bmi1	69.92
892	Self-emp	formerly	bmi2	83.55
893	Self-emp	formerly	bmi3	102.97
894	Self-emp	formerly	bmi3	78.00
895	Self-emp	formerly	bmi2	90.04
896	Self-emp	formerly	bmi3	104.04
897	Self-emp	formerly	bmi1	111.81
898	Self-emp	formerly	bmi2	61.36
899	Self-emp	formerly	bmi3	84.78
900	Self-emp	formerly	bmi3	204.17

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

Moments			
N	900	Sum Weights	900
Mean	108.820844	Sum Observations	97938.76
Std Deviation	49.1843321	Variance	2419.09853
Skewness	1.4663112	Kurtosis	1.12455404
Uncorrected SS	12832548.1	Corrected SS	2174769.58
Coeff Variation	45.1975284	Std Error Mean	1.63947774

Basic Statistical Measures			
Location		Variability	
Mean	108.8208	Std Deviation	49.18433
Median	92.4900	Variance	2419
Mode	75.7700	Range	212.34000
		Interquartile Range	39.99500

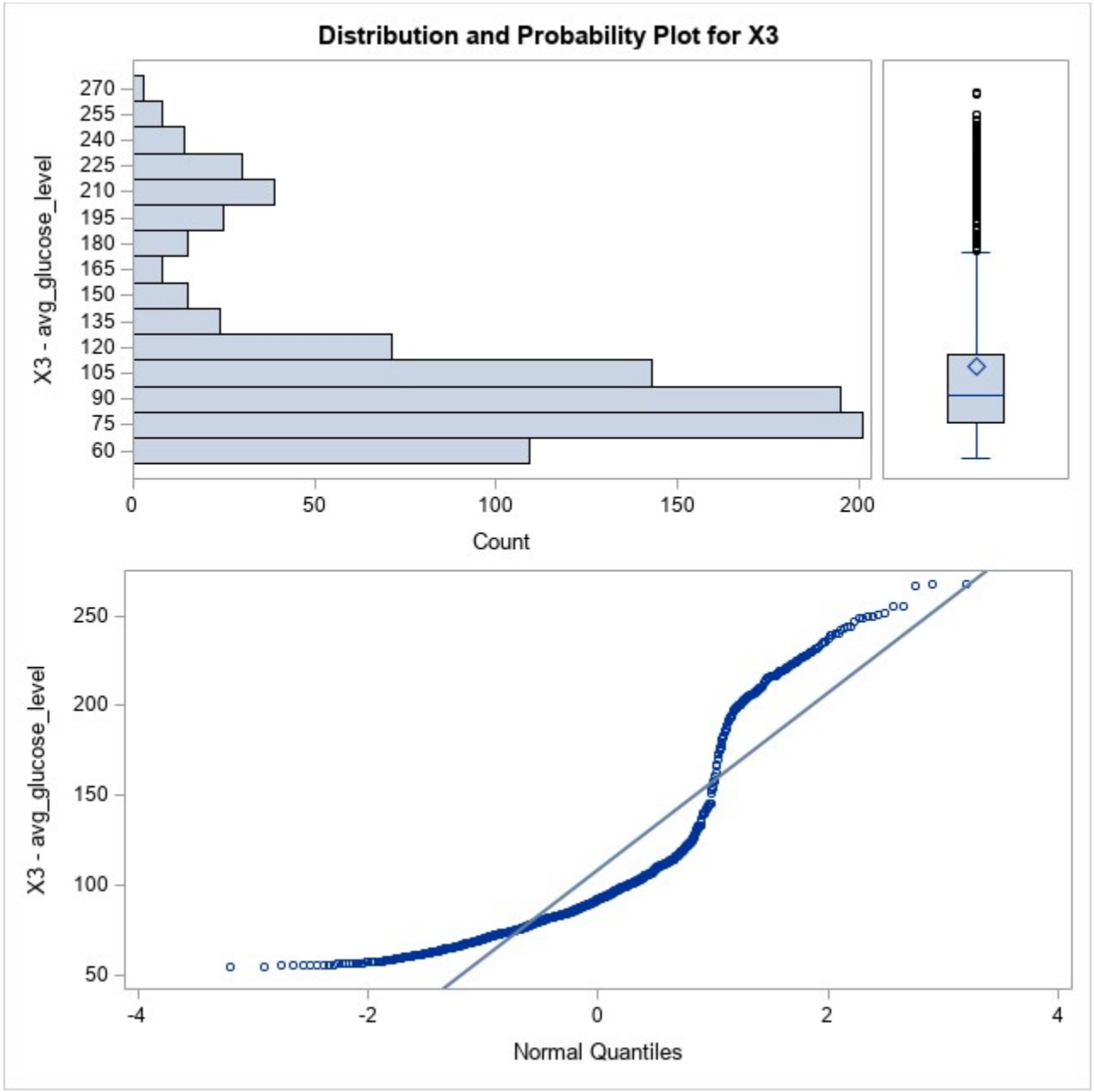
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	66.37531	Pr > |t|	<.0001
Sign	M	450	Pr >= |M|	<.0001
Signed Rank	S	202725	Pr >= |S|	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.80192	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.197596	Pr > D	<0.0100
Cramer-von Mises	W-Sq	11.8173	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	67.16164	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	267.610
99%	248.830

95%	221.175
90%	203.965
75% Q3	116.095
50% Median	92.490
25% Q1	76.100
10%	65.660
5%	60.680
1%	56.115
0% Min	55.270

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
55.27	98	254.95	550
55.32	647	255.17	84
55.46	707	266.59	185
55.47	250	267.60	427
55.57	15	267.61	681


Distribution and Probability Plot for X3
X3 - avg_glucose_level
270
255
240
225
210
195
180
165
150
135
120
105
90
75
60
0
50
100
150
200
Count
X3 - avg_glucose_level
250
200
150
100
50
-4
-2
0
2
4
Normal Quantiles

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X1 - work_type=Govt_job

Moments			
N	300	Sum Weights	300
Mean	111.114233	Sum Observations	33334.27
Std Deviation	50.3829569	Variance	2538.44234
Skewness	1.34688343	Kurtosis	0.66543565
Uncorrected SS	4462906.12	Corrected SS	758994.26
Coeff Variation	45.343387	Std Error Mean	2.90886137

Basic Statistical Measures			
Location		Variability	
Mean	111.1142	Std Deviation	50.38296
Median	93.8200	Variance	2538
Mode	64.4000	Range	211.32000
		Interquartile Range	39.84000

Note: The mode displayed is the smallest of 5 modes with a count of 2.

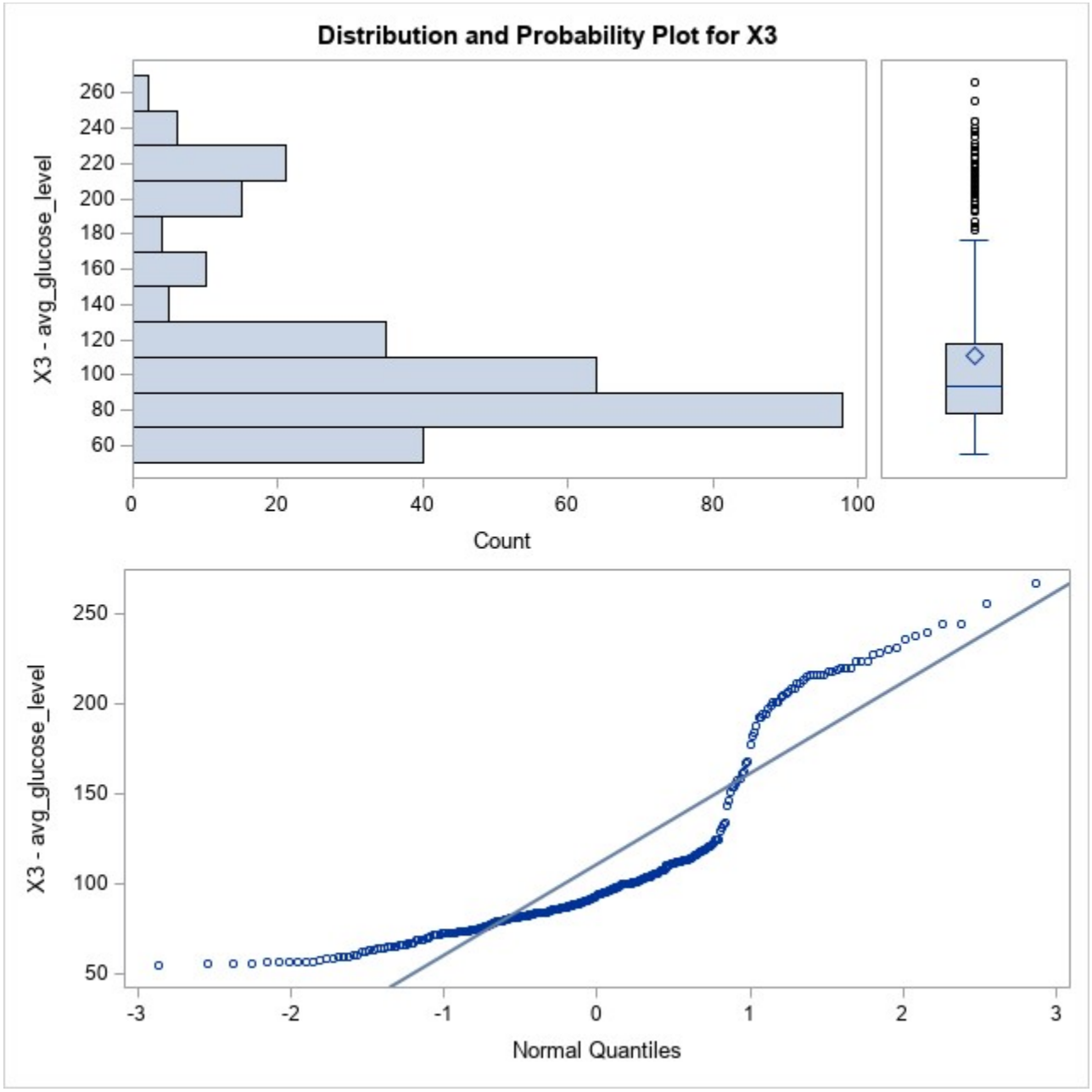
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	38.19853	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.809128	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.208348	Pr > D	<0.0100
Cramer-von Mises	W-Sq	4.02959	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	22.54898	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Level	Quantile
100% Max	266.590
99%	244.290
95%	219.650
90%	208.295
75% Q3	117.955
50% Median	93.820
25% Q1	78.115
10%	65.970
5%	59.680
1%	55.845
0% Min	55.270

Extreme Observations					
Lowest			Highest		
Value	X1	Obs	Value	X1	Obs
55.27	Govt_job	98	239.64	Govt_job	34
55.47	Govt_job	250	244.28	Govt_job	8
55.57	Govt_job	15	244.30	Govt_job	143
56.12	Govt_job	245	255.17	Govt_job	84
56.37	Govt_job	236	266.59	Govt_job	185


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
100
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X1 - work_type=Private

Moments			
N	300	Sum Weights	300
Mean	106.400633	Sum Observations	31920.19
Std Deviation	47.8853369	Variance	2293.00549
Skewness	1.64356985	Kurtosis	1.84202124
Uncorrected SS	4081937.07	Corrected SS	685608.641
Coeff Variation	45.004748	Std Error Mean	2.76466121

Basic Statistical Measures			
Location		Variability	
Mean	106.4006	Std Deviation	47.88534
Median	90.6700	Variance	2293
Mode	65.4200	Range	211.49000
		Interquartile Range	38.09000

Note: The mode displayed is the smallest of 5 modes with a count of 2.

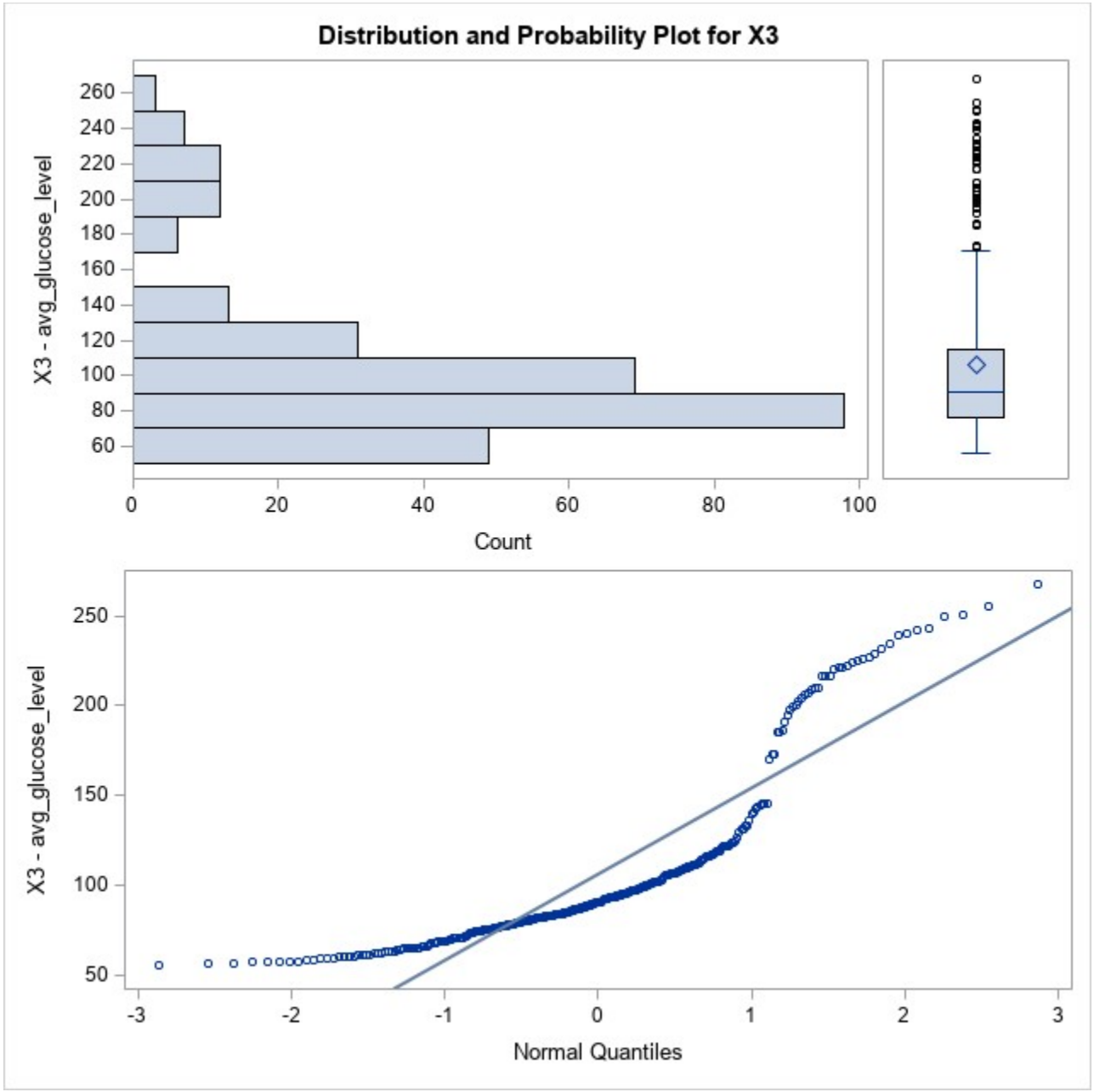
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	38.48596	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.784567	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.196354	Pr > D	<0.0100
Cramer-von Mises	W-Sq	4.021424	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	23.25377	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Level	Quantile
100% Max	267.600
99%	250.100
95%	223.020
90%	199.920
75% Q3	114.415
50% Median	90.670
25% Q1	76.325
10%	64.730
5%	60.455
1%	56.995
0% Min	56.110

Extreme Observations					
Lowest			Highest		
Value	X1	Obs	Value	X1	Obs
56.11	Private	390	242.84	Private	538
56.42	Private	482	249.31	Private	463
56.48	Private	382	250.89	Private	518
57.51	Private	586	254.95	Private	550
57.76	Private	505	267.60	Private	427


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
100
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X1 - work_type=Self-emp

Moments			
N	300	Sum Weights	300
Mean	108.947667	Sum Observations	32684.3
Std Deviation	49.3037386	Variance	2430.85864
Skewness	1.43872142	Kurtosis	1.06736229
Uncorrected SS	4287704.95	Corrected SS	726826.732
Coeff Variation	45.2545154	Std Error Mean	2.84655267

Basic Statistical Measures			
Location		Variability	
Mean	108.9477	Std Deviation	49.30374
Median	92.8850	Variance	2431
Mode	61.1000	Range	212.29000
		Interquartile Range	41.21500

Note: The mode displayed is the smallest of 2 modes with a count of 2.

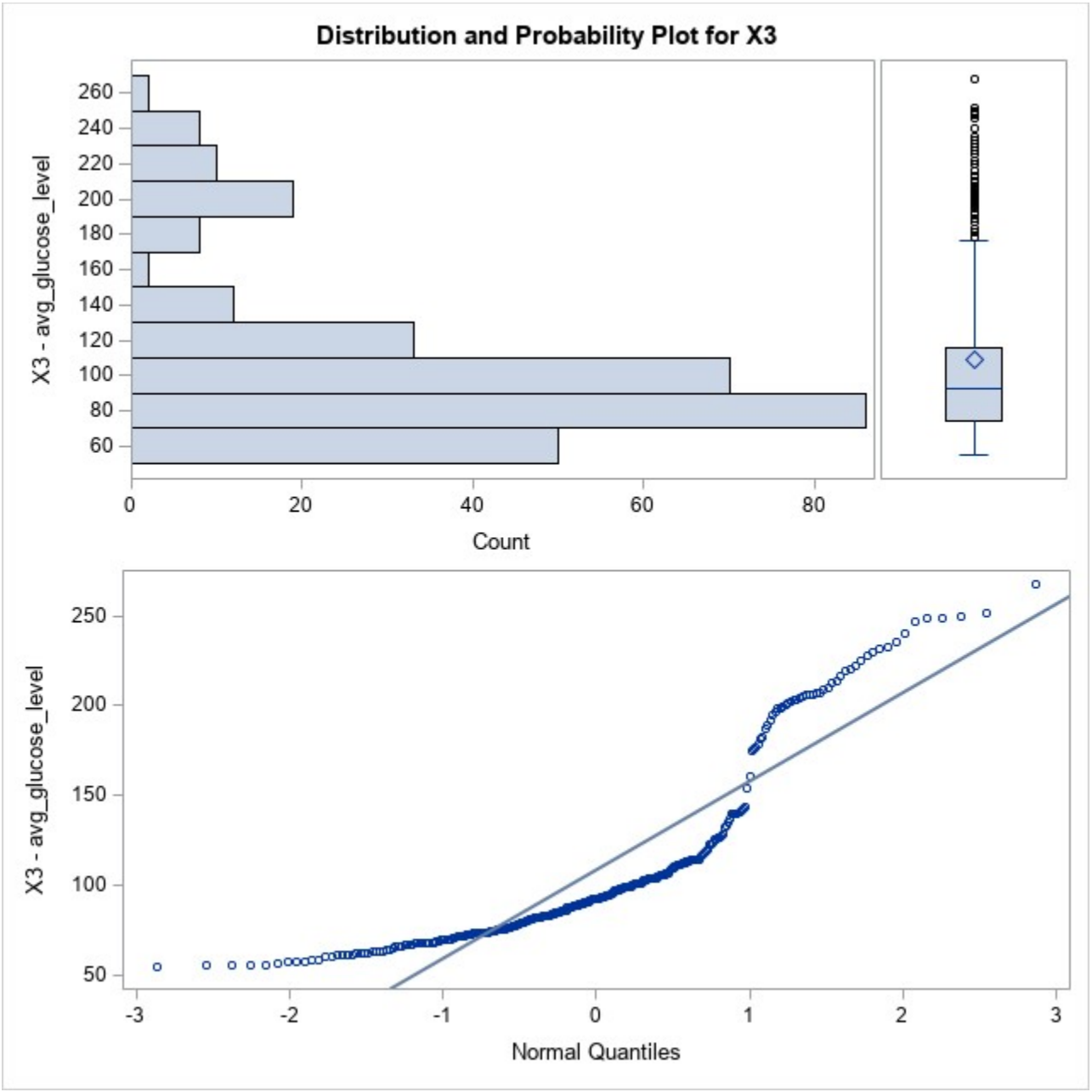
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	38.27355	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

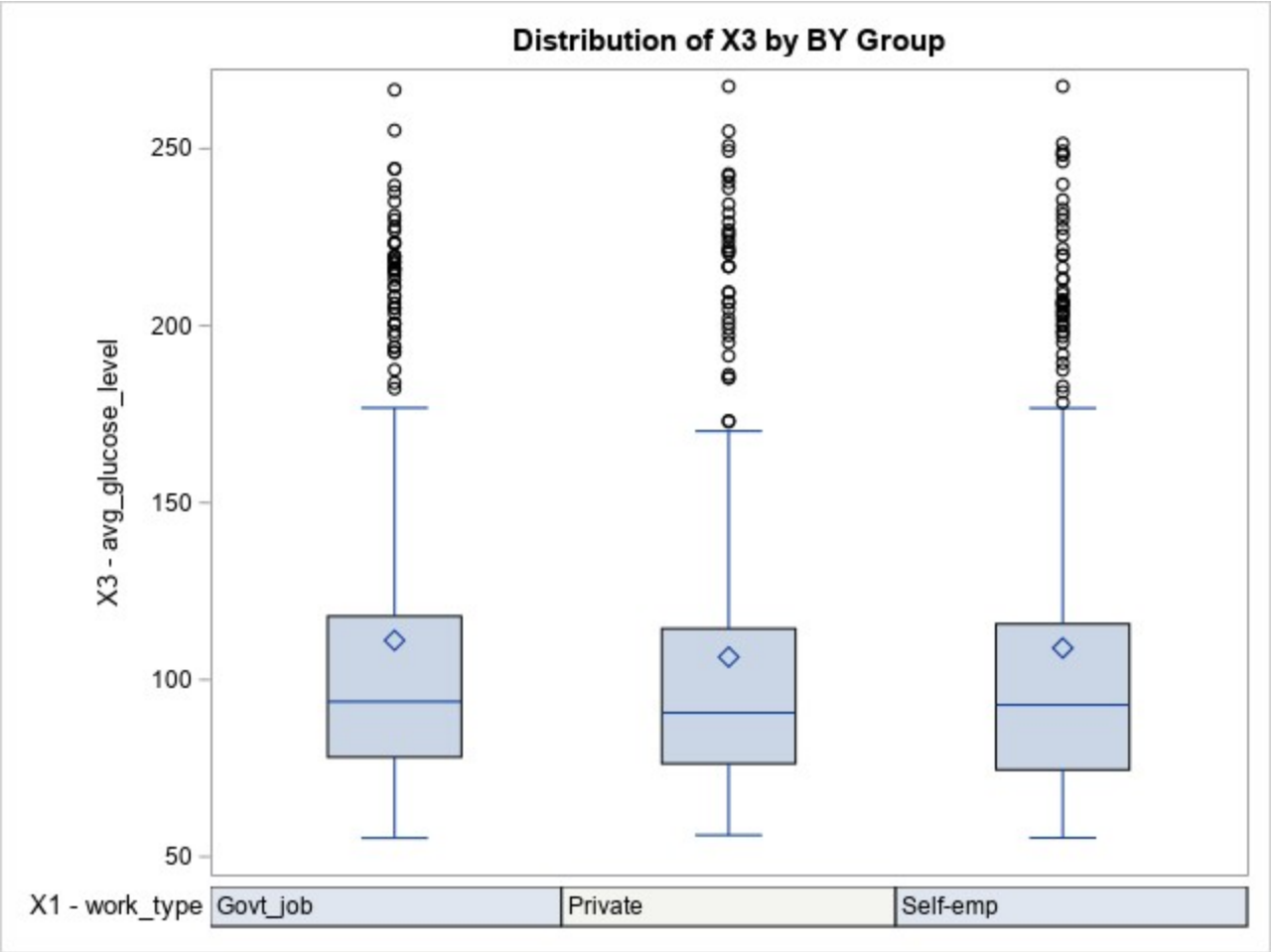
Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.80792	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.202114	Pr > D	<0.0100
Cramer-von Mises	W-Sq	3.783654	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	21.55197	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Level	Quantile
100% Max	267.610
99%	248.830
95%	219.870
90%	202.805
75% Q3	115.785
50% Median	92.885
25% Q1	74.570
10%	66.705
5%	61.230
1%	55.895
0% Min	55.320

Extreme Observations					
Lowest			Highest		
Value	X1	Obs	Value	X1	Obs
55.32	Self-emp	647	248.24	Self-emp	654
55.46	Self-emp	707	248.37	Self-emp	699
55.83	Self-emp	745	249.29	Self-emp	679
55.96	Self-emp	723	251.46	Self-emp	626
56.08	Self-emp	847	267.61	Self-emp	681


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles


Distribution of X3 by BY Group
X3 - avg_glucose_level
250
200
150
100
50
X1 - work_type
Govt_job
Private
Self-emp

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X2 - smoking_status=formerly

Moments			
N	300	Sum Weights	300
Mean	109.8822	Sum Observations	32964.66
Std Deviation	50.8114058	Variance	2581.79896
Skewness	1.38116269	Kurtosis	0.6560675
Uncorrected SS	4394187.25	Corrected SS	771957.89
Coeff Variation	46.2417078	Std Error Mean	2.93359788

Basic Statistical Measures			
Location		Variability	
Mean	109.8822	Std Deviation	50.81141
Median	94.2900	Variance	2582
Mode	75.7700	Range	199.90000
		Interquartile Range	37.21000

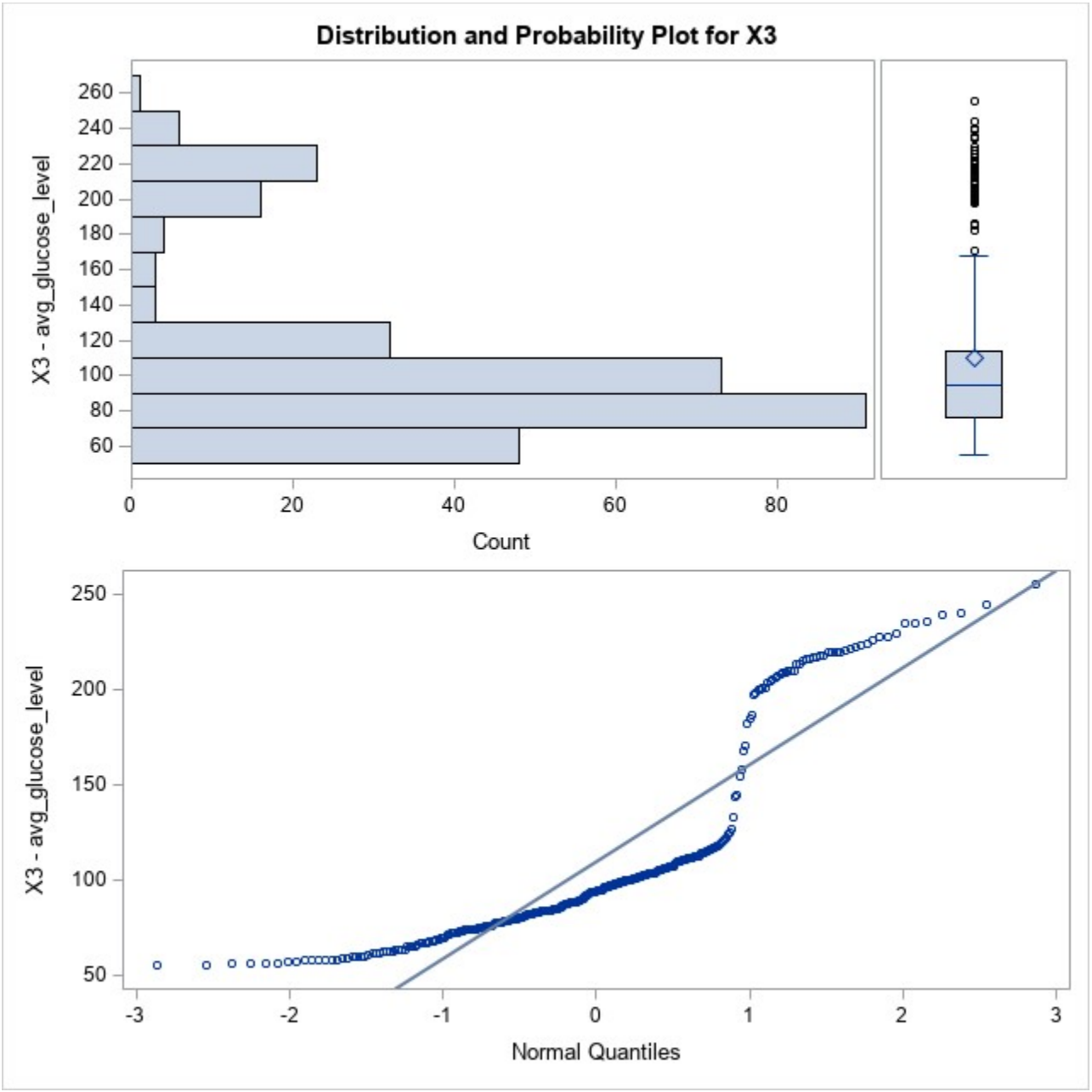
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	37.45646	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.787227	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.226709	Pr > D	<0.0100
Cramer-von Mises	W-Sq	4.462081	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	25.41806	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	255.170

99%	239.210
95%	220.710
90%	209.750
75% Q3	113.615
50% Median	94.290
25% Q1	76.405
10%	63.365
5%	58.900
1%	56.095
0% Min	55.270

Extreme Observations					
Lowest			Highest		
Value	**X2**	**Obs**	**Value**	**X2**	**Obs**
55.27	formerly	98	235.54	formerly	260
55.57	formerly	15	238.78	formerly	139
56.08	formerly	247	239.64	formerly	34
56.11	formerly	190	244.28	formerly	8
56.43	formerly	258	255.17	formerly	84


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X2 - smoking_status=never_sm

Moments			
N	300	Sum Weights	300
Mean	107.506633	Sum Observations	32251.99
Std Deviation	47.5511657	Variance	2261.11336
Skewness	1.45615458	Kurtosis	1.22458167
Uncorrected SS	4143375.76	Corrected SS	676072.894
Coeff Variation	44.2309132	Std Error Mean	2.74536783

Basic Statistical Measures			
Location		Variability	
Mean	107.5066	Std Deviation	47.55117
Median	90.1050	Variance	2261
Mode	85.8400	Range	212.14000
		Interquartile Range	44.03500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.15928	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

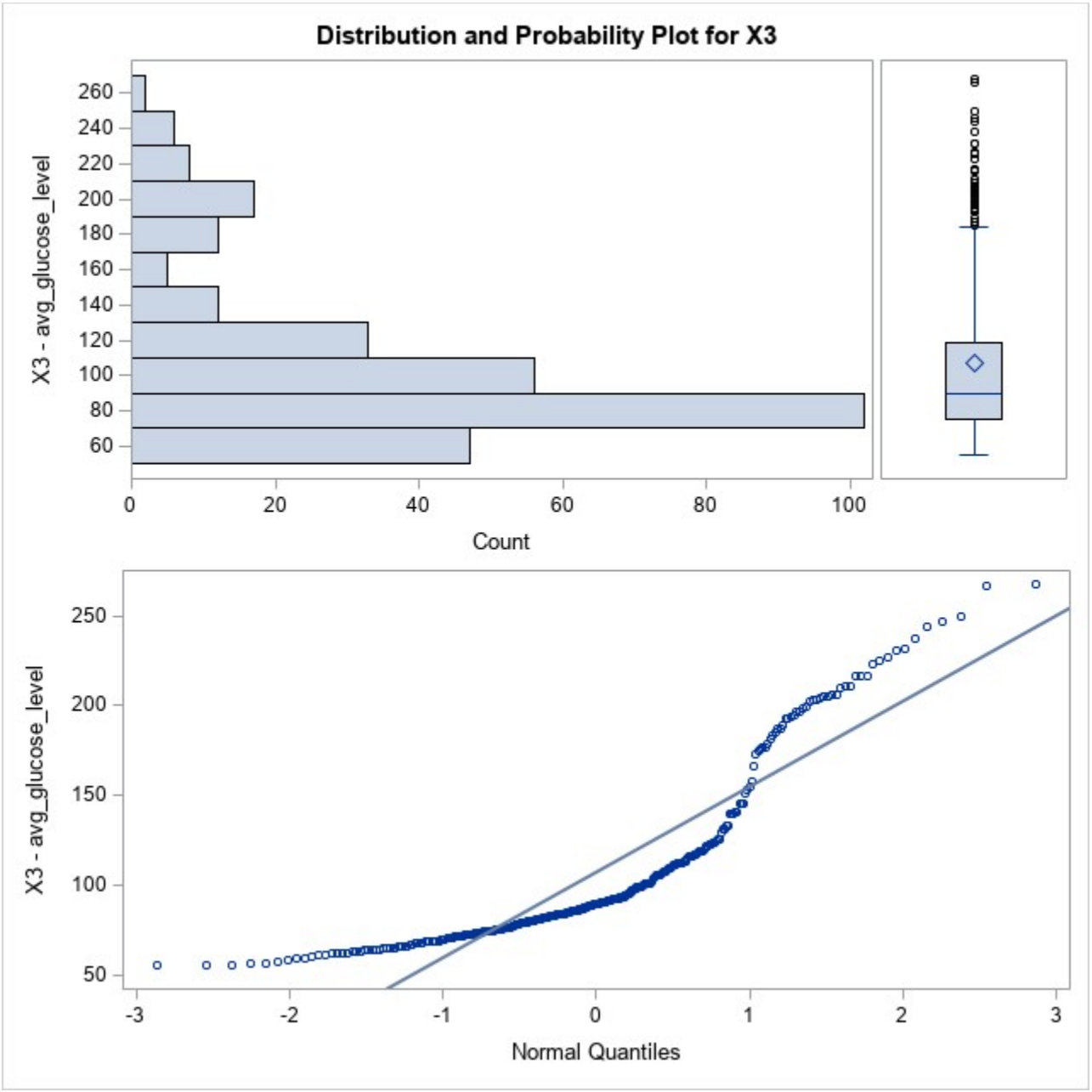
Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.812263	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.189761	Pr > D	<0.0100
Cramer-von Mises	W-Sq	3.725117	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	20.90696	Pr > A-Sq	<0.0050

Quantiles (Definition 5)	
Level	Quantile
100% Max	267.600

99%	247.825
95%	211.030
90%	194.645
75% Q3	119.010
50% Median	90.105
25% Q1	74.975
10%	66.030
5%	62.655
1%	56.190
0% Min	55.460

Extreme Observations

Lowest			Highest		
Value	**X2**	**Obs**	**Value**	**X2**	**Obs**
55.46	never_sm	507	244.30	never_sm	343
55.83	never_sm	545	246.34	never_sm	538
55.96	never_sm	523	249.31	never_sm	463
56.42	never_sm	482	266.59	never_sm	385
56.63	never_sm	386	267.60	never_sm	427


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
100
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles

SAS Program for RBF-33 Design

The UNIVARIATE Procedure
Variable: X3 (X3 - avg_glucose_level)

X2 - smoking_status=smokes

Moments			
N	300	Sum Weights	300
Mean	109.0737	Sum Observations	32722.11
Std Deviation	49.2710584	Variance	2427.6372
Skewness	1.57175787	Kurtosis	1.58887893
Uncorrected SS	4294985.13	Corrected SS	725863.523
Coeff Variation	45.1722628	Std Error Mean	2.84466589

Basic Statistical Measures			
Location		Variability	
Mean	109.0737	Std Deviation	49.27106
Median	93.5900	Variance	2428
Mode	60.7700	Range	212.29000
		Interquartile Range	37.93500

Note: The mode displayed is the smallest of 4 modes with a count of 2.

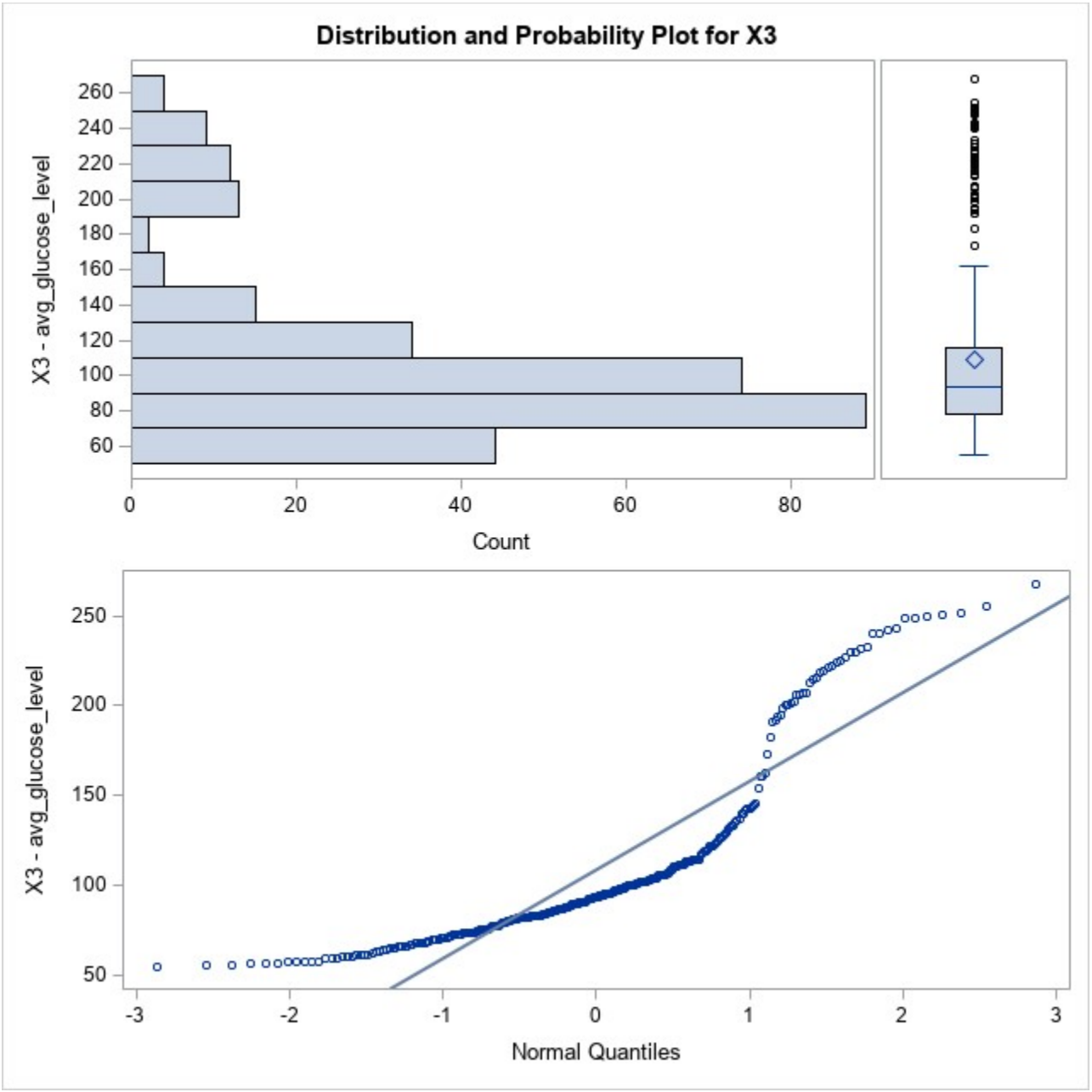
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	38.34324	Pr > |t|	<.0001
Sign	M	150	Pr >= |M|	<.0001
Signed Rank	S	22575	Pr >= |S|	<.0001

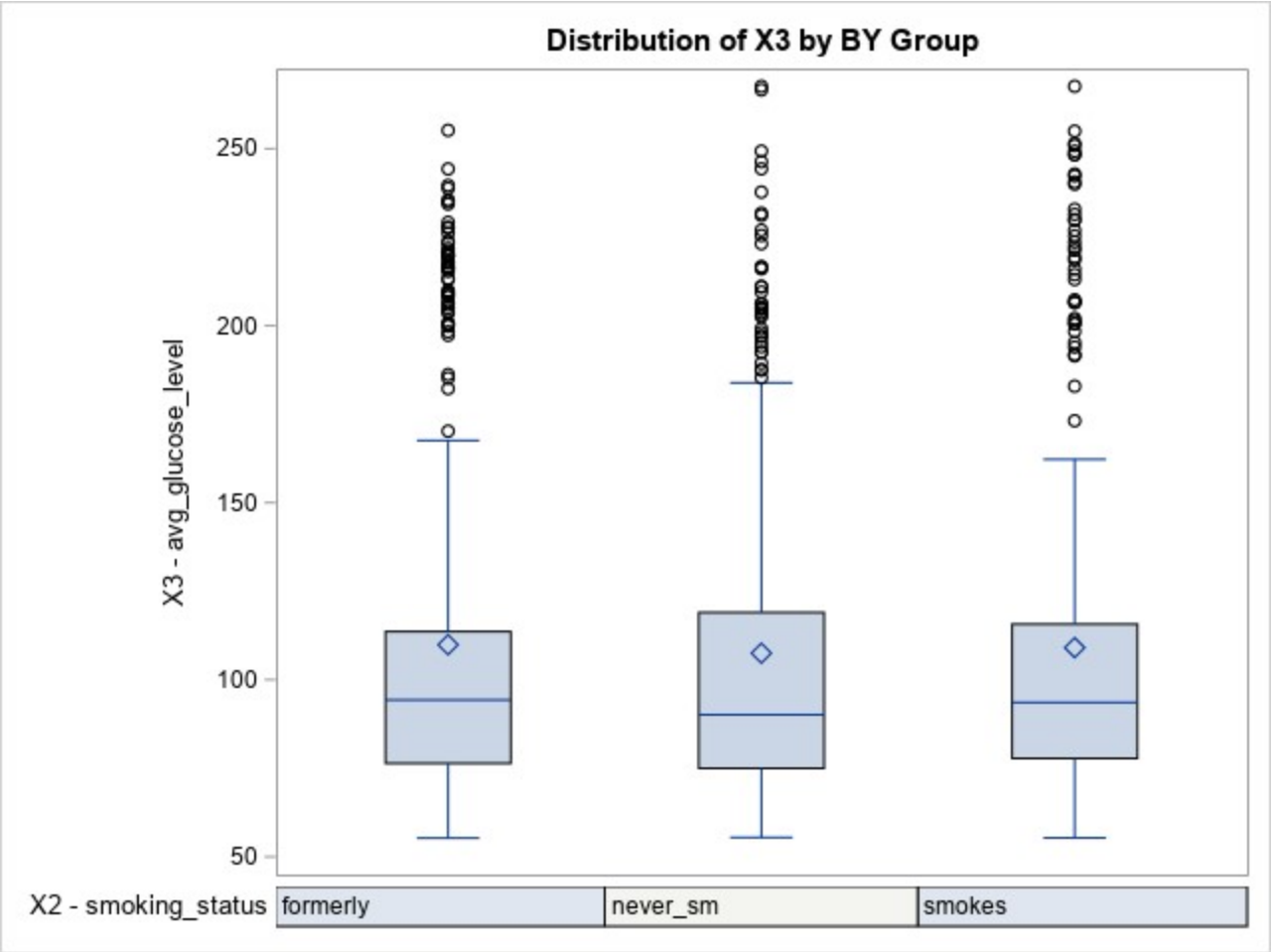
Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.796552	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.205831	Pr > D	<0.0100
Cramer-von Mises	W-Sq	3.830718	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	22.05478	Pr > A-Sq	<0.0050

Quantiles (Definition 5)

Level	Quantile
100% Max	267.610
99%	251.175
95%	228.395
90%	201.750
75% Q3	115.695
50% Median	93.590
25% Q1	77.760
10%	65.925
5%	60.730
1%	56.245
0% Min	55.320

Extreme Observations					
Lowest			Highest		
Value	X2	Obs	Value	X2	Obs
55.32	smokes	847	249.29	smokes	879
55.47	smokes	650	250.89	smokes	718
56.12	smokes	645	251.46	smokes	826
56.37	smokes	636	254.95	smokes	750
56.89	smokes	604	267.61	smokes	881


Distribution and Probability Plot for X3
X3 - avg_glucose_level
260
240
220
200
180
160
140
120
100
80
60
0
20
40
60
80
Count
X3 - avg_glucose_level
250
200
150
100
50
-3
-2
-1
0
1
2
3
Normal Quantiles


Distribution of X3 by BY Group
X3 - avg_glucose_level
250
200
150
100
50
X2 - smoking_status
formerly
never_sm
smokes

SAS Program for RBF-33 Design

The MEANS Procedure

X1 - work_type=Govt_job X2 - smoking_status=formerly

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	115.9616000	55.2496592	55.2700000	255.1700000

X1 - work_type=Govt_job X2 - smoking_status=never_sm

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	113.7190000	50.7160741	56.6300000	266.5900000

X1 - work_type=Govt_job X2 - smoking_status=smokes

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	103.6621000	44.2185570	55.4700000	229.8600000

X1 - work_type=Private X2 - smoking_status=formerly

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	104.3354000	49.1887862	56.1100000	238.7800000

X1 - work_type=Private X2 - smoking_status=never_sm

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	104.7326000	44.0938433	56.4200000	267.6000000

X1 - work_type=Private X2 - smoking_status=smokes

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	110.1339000	50.4017791	57.5100000	254.9500000

X1 - work_type=Self-emp X2 - smoking_status=formerly

Analysis Variable : X3 X3 - avg_glucose_level

N	Mean	Std Dev	Minimum	Maximum
100	109.3496000	47.5057491	56.0800000	235.5400000

X1 - work_type=Self-emp X2 - smoking_status=never_sm

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	104.0683000	47.4756155	55.4600000	246.3400000

X1 - work_type=Self-emp X2 - smoking_status=smokes

Analysis Variable : X3 X3 - avg_glucose_level				
N	Mean	Std Dev	Minimum	Maximum
100	113.4251000	52.7872343	55.3200000	267.6100000

SAS Program for RBF-33 Design

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
blck_bmi	3	bmi1 bmi2 bmi3
X1	3	Govt_job Private Self-emp
X2	3	formerly never_sm smokes

Number of Observations Read	900
Number of Observations Used	900

SAS Program for RBF-33 Design

The GLM Procedure

Dependent Variable: X3 X3 - avg_glucose_level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	58417.219	5841.722	2.45	0.0068
Error	889	2116352.356	2380.599		
Corrected Total	899	2174769.575			

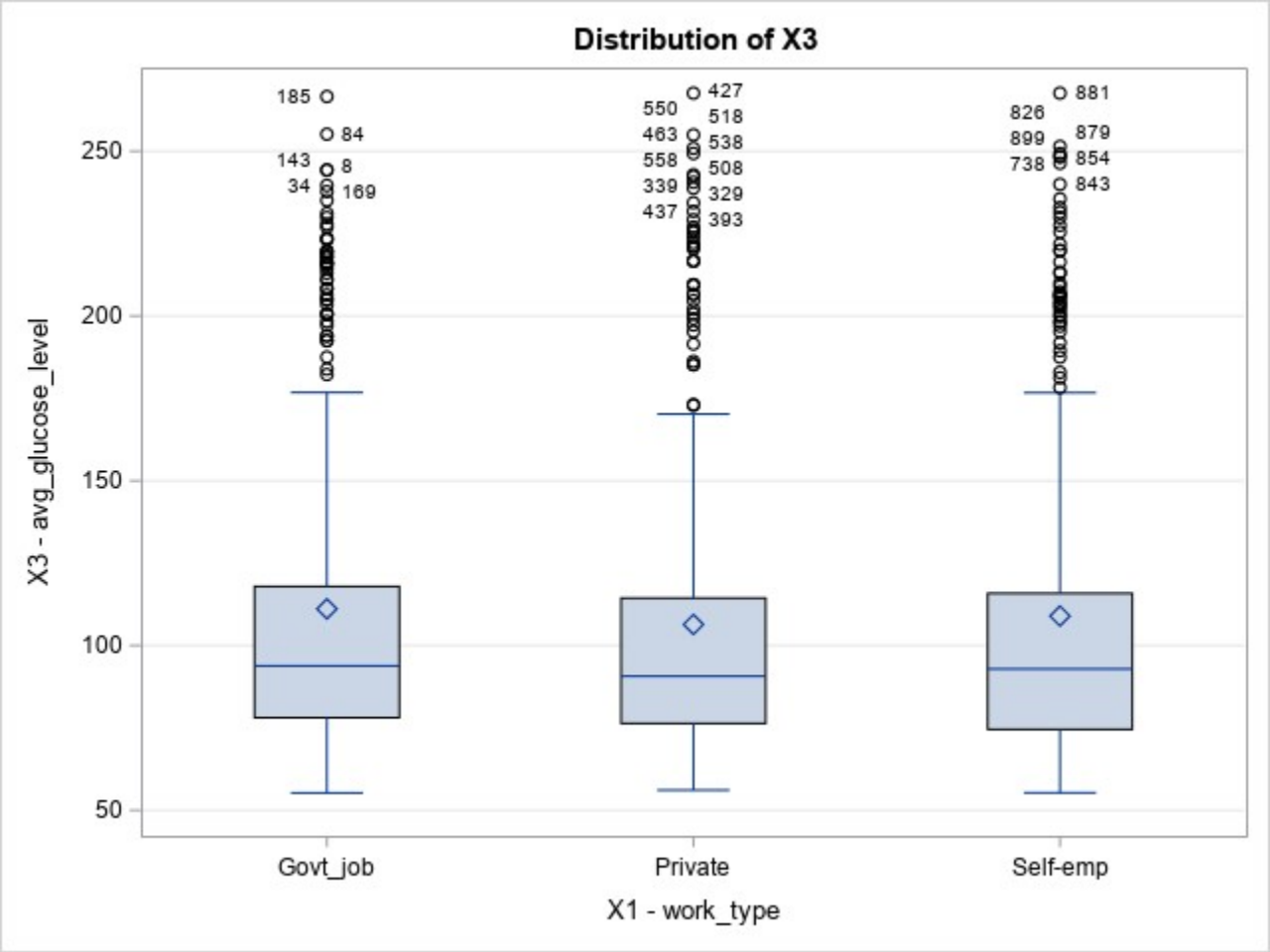
R-Square	Coeff Var	Root MSE	X3 Mean
0.026861	44.83643	48.79138	108.8208

Source	DF	Type I SS	Mean Square	F Value	Pr > F
blck_bmi	2	39522.26835	19761.13418	8.30	0.0003
X1	2	2620.98865	1310.49432	0.55	0.5769
X2	2	1033.51431	516.75716	0.22	0.8049
X1*X2	4	15240.44775	3810.11194	1.60	0.1721

Source	DF	Type III SS	Mean Square	F Value	Pr > F
blck_bmi	2	39995.47289	19997.73645	8.40	0.0002
X1	2	2610.65247	1305.32623	0.55	0.5781
X2	2	1035.08819	517.54410	0.22	0.8047
X1*X2	4	15240.44775	3810.11194	1.60	0.1721

SAS Program for RBF-33 Design

The GLM Procedure



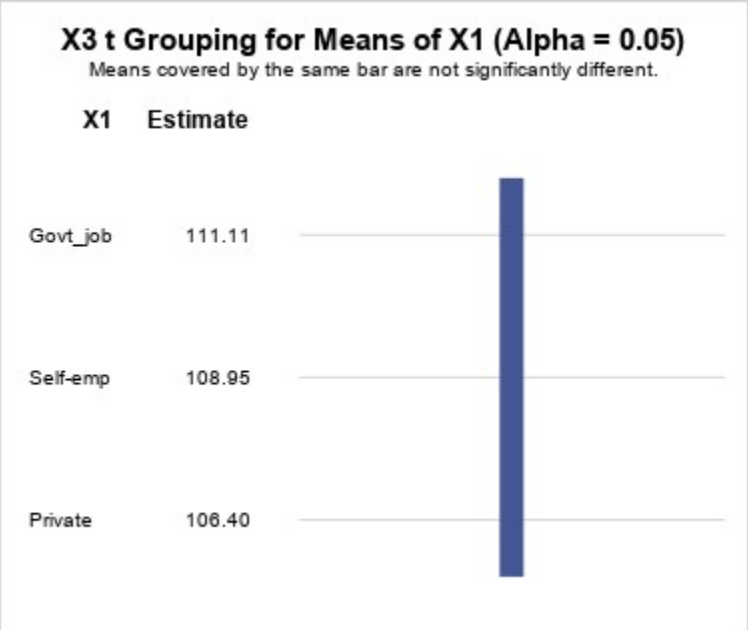
SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	1.96264
Least Significant Difference	7.8187



SAS Program for RBF-33 Design

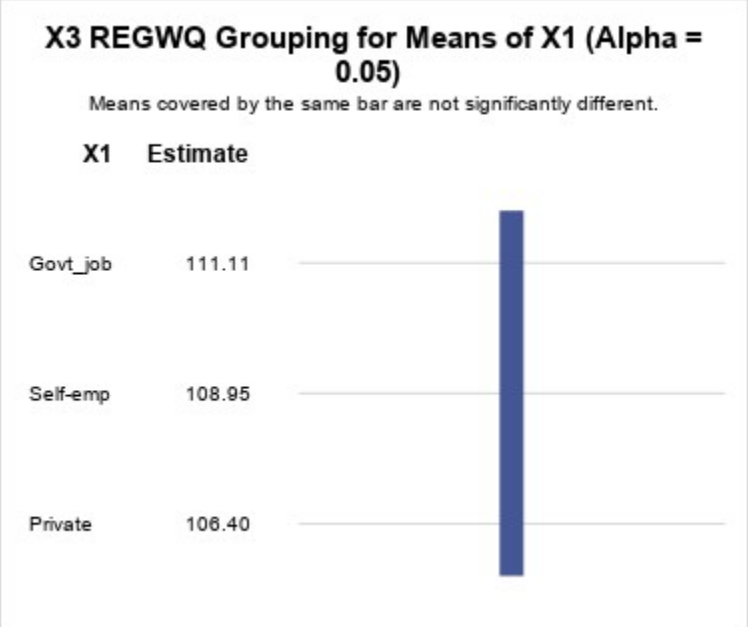
The GLM Procedure

Ryan-Einot-Gabriel-Welsch Multiple Range Test for X3

Note: This test controls the Type I experimentwise error rate.

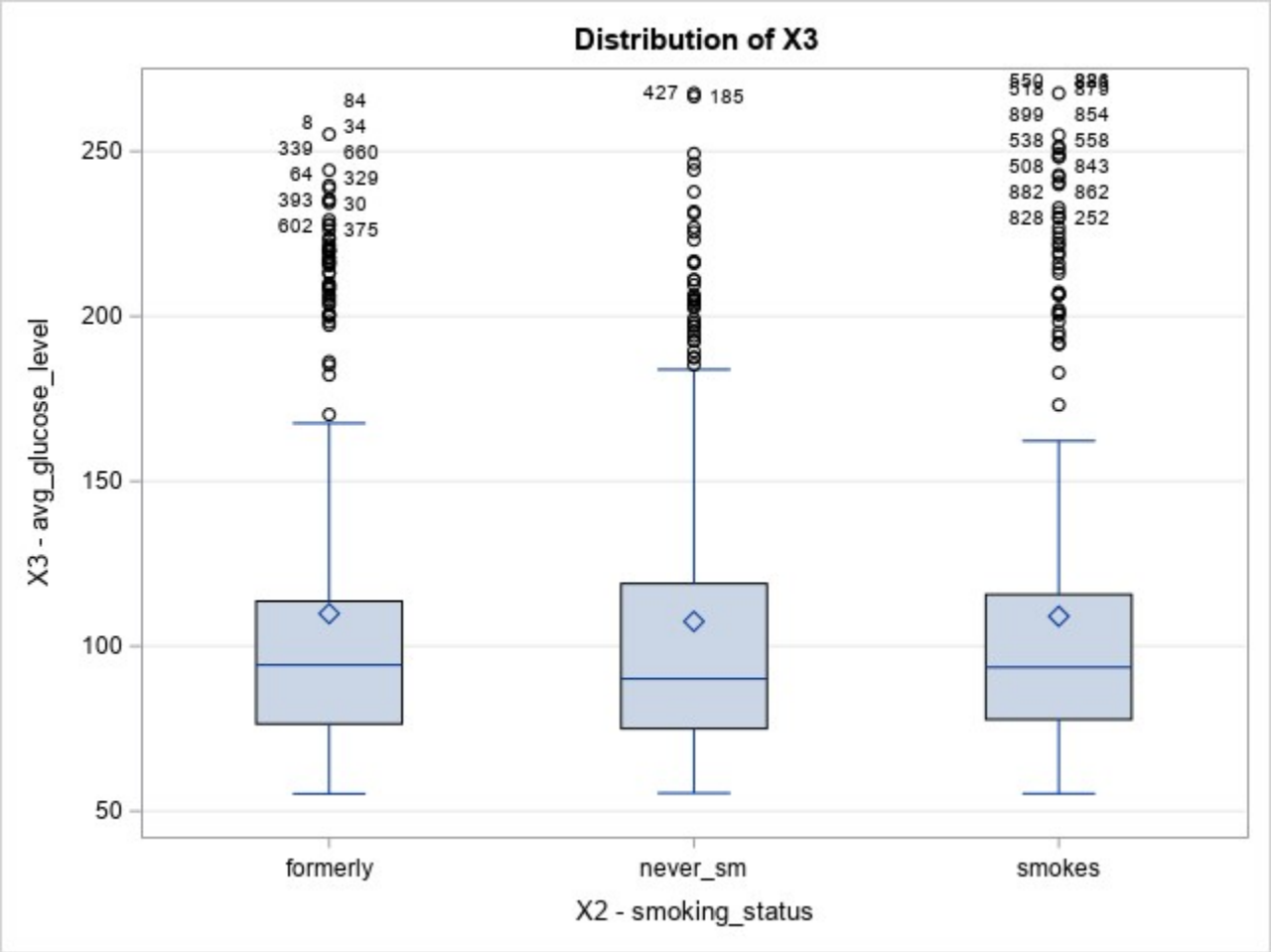
Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599

Number of Means	**2**	**3**
Critical Range	7.8187496	9.3525279



SAS Program for RBF-33 Design

The GLM Procedure



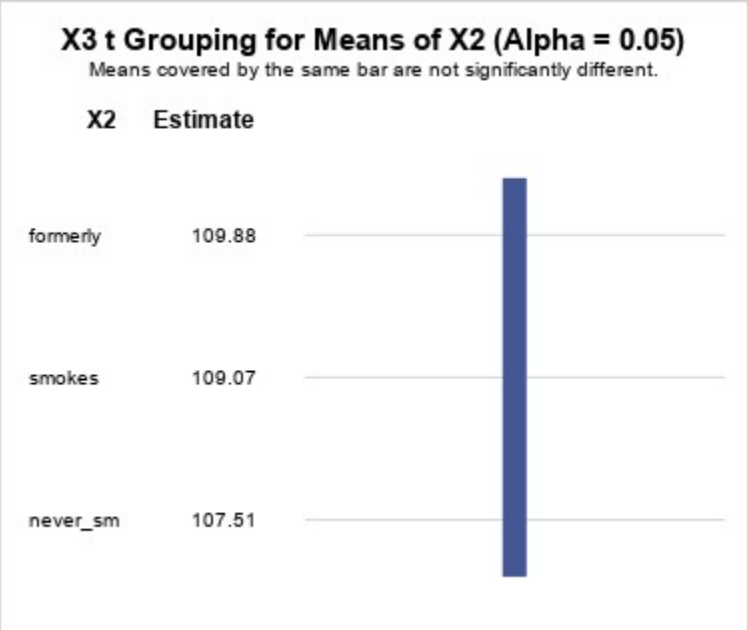
SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	1.96264
Least Significant Difference	7.8187



SAS Program for RBF-33 Design

The GLM Procedure

Ryan-Einot-Gabriel-Welsch Multiple Range Test for X3

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
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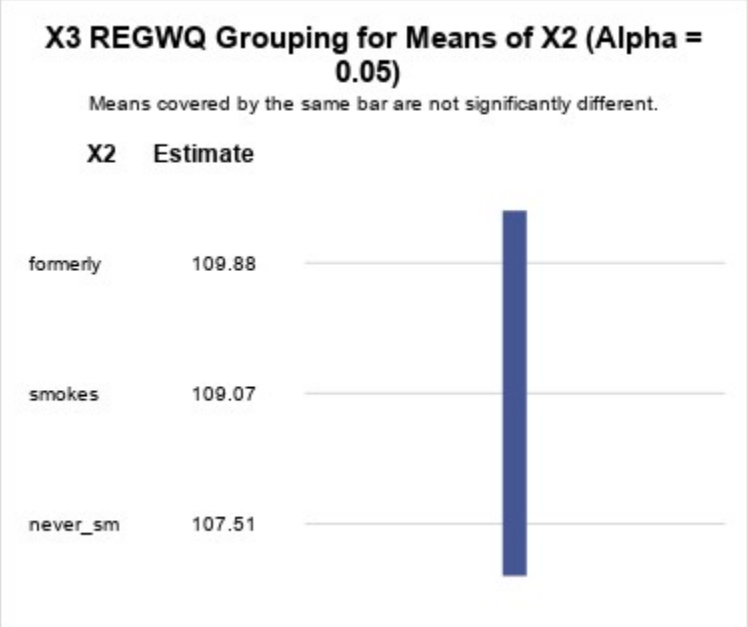
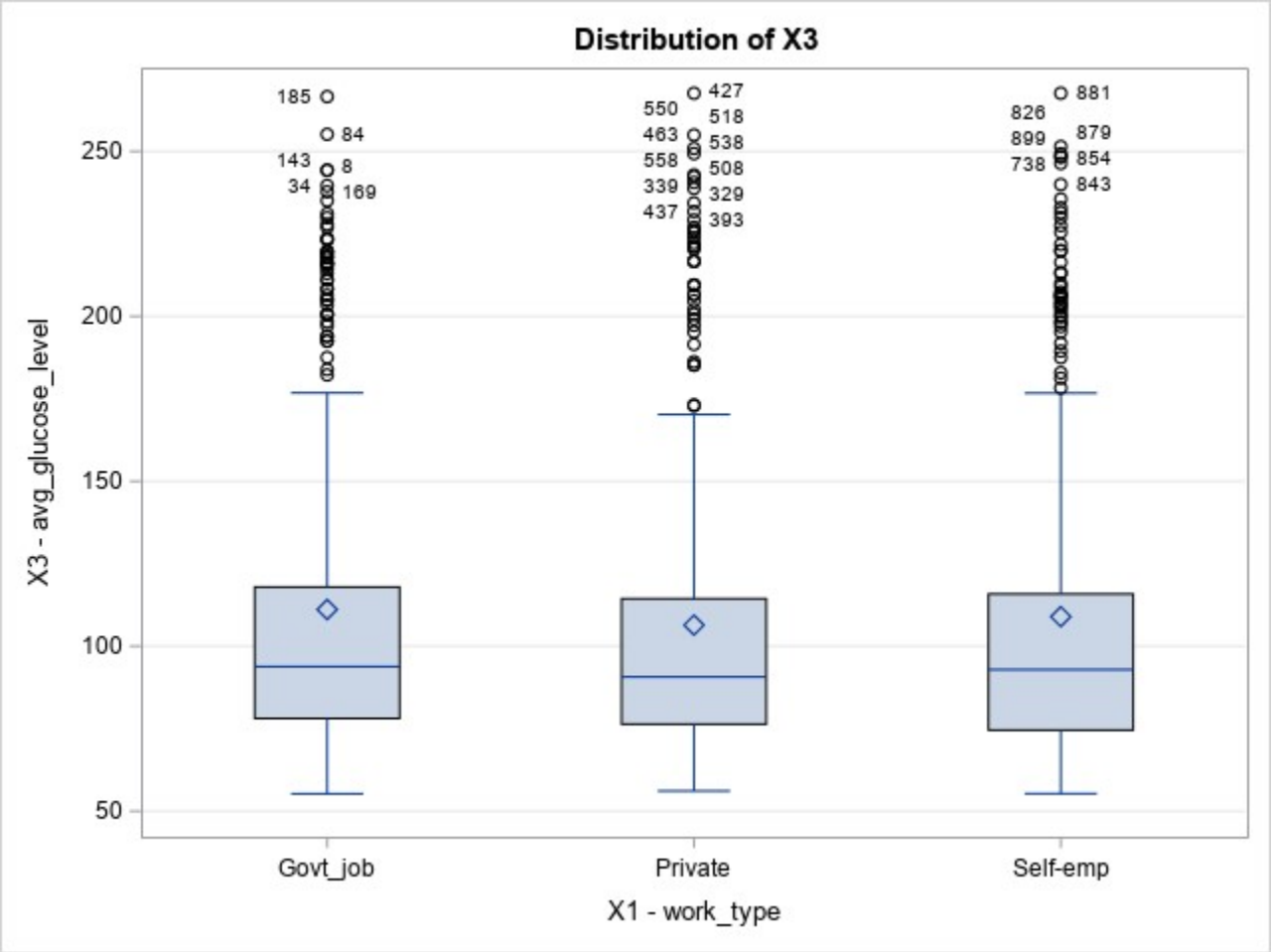
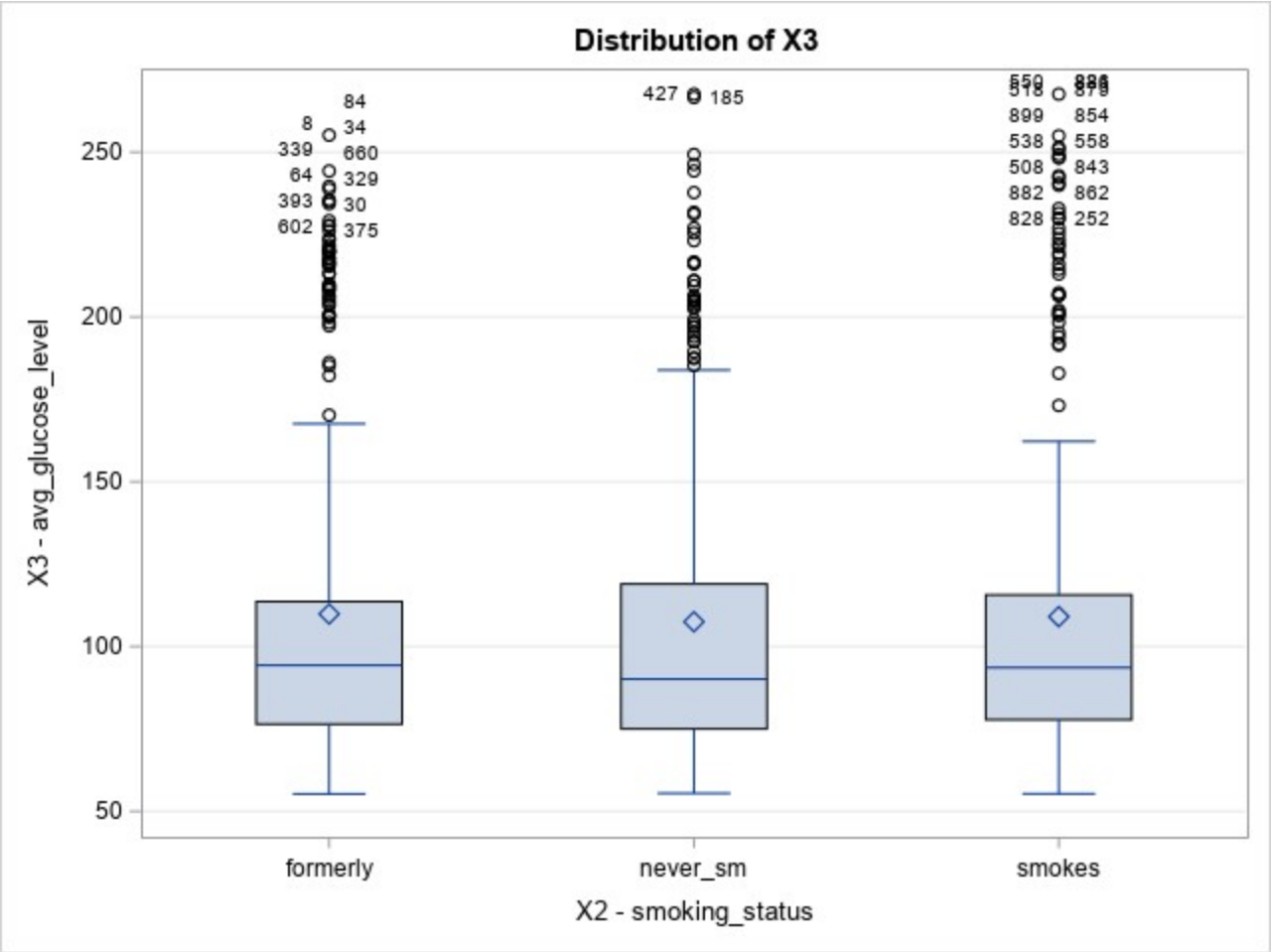


SAS Program for RBF-33 Design

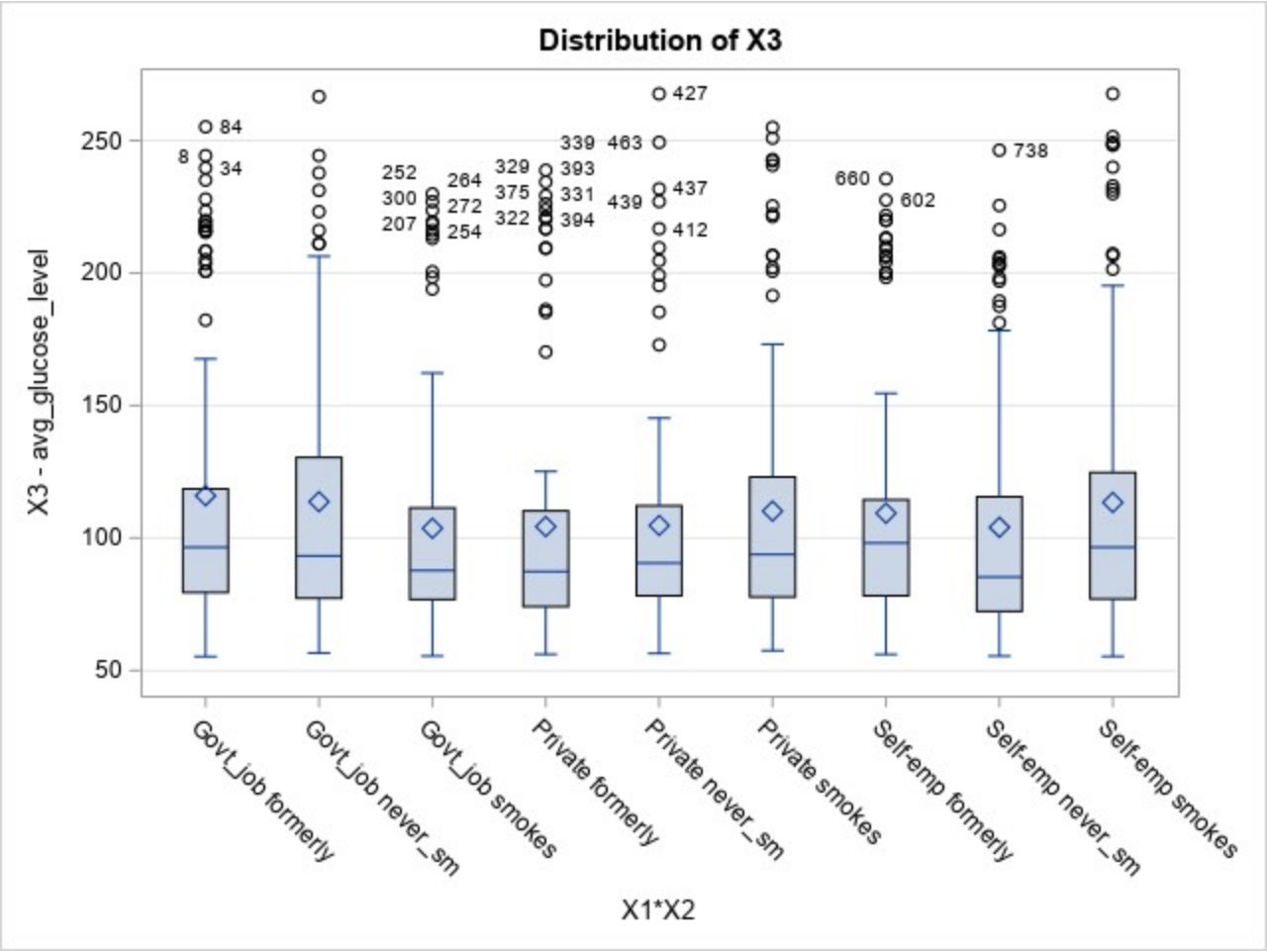
The GLM Procedure



Level of X1	N	X3	
		Mean	Std Dev
Govt_job	300	111.114233	50.3829569
Private	300	106.400633	47.8853369
Self-emp	300	108.947667	49.3037386



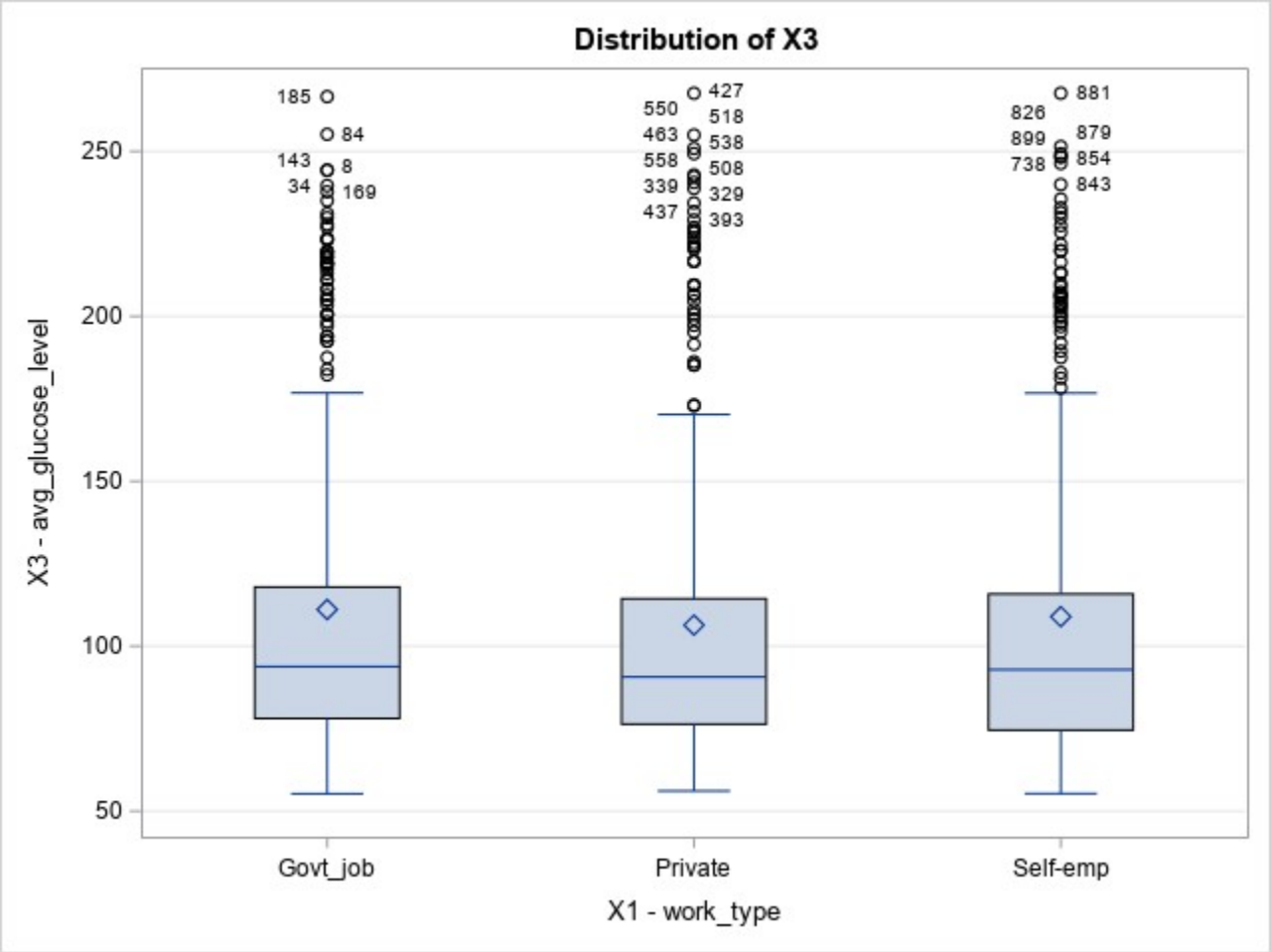
Level of X2	N	X3	
		Mean	Std Dev
formerly	300	109.882200	50.8114058
never_sm	300	107.506633	47.5511657
smokes	300	109.073700	49.2710584



Level of X1	Level of X2	N	X3	
			Mean	Std Dev
Govt_job	formerly	100	115.961600	55.2496592
Govt_job	never_sm	100	113.719000	50.7160741
Govt_job	smokes	100	103.662100	44.2185570
Private	formerly	100	104.335400	49.1887862
Private	never_sm	100	104.732600	44.0938433
Private	smokes	100	110.133900	50.4017791
Self-emp	formerly	100	109.349600	47.5057491
Self-emp	never_sm	100	104.068300	47.4756155
Self-emp	smokes	100	113.425100	52.7872343

SAS Program for RBF-33 Design

The GLM Procedure



SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	1.96264
Least Significant Difference	7.8187

Comparisons significant at the 0.05 level are indicated by *.**

X1 Comparison	Difference Between Means	95% Confidence Limits		
Govt_job - Self-emp	2.167	-5.652	9.985	
Govt_job - Private	4.714	-3.105	12.532	
Self-emp - Govt_job	-2.167	-9.985	5.652	
Self-emp - Private	2.547	-5.272	10.366	
Private - Govt_job	-4.714	-12.532	3.105	
Private - Self-emp	-2.547	-10.366	5.272	

SAS Program for RBF-33 Design

The GLM Procedure

Bonferroni (Dunn) t Tests for X3

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than Tukey's for all pairwise comparisons.

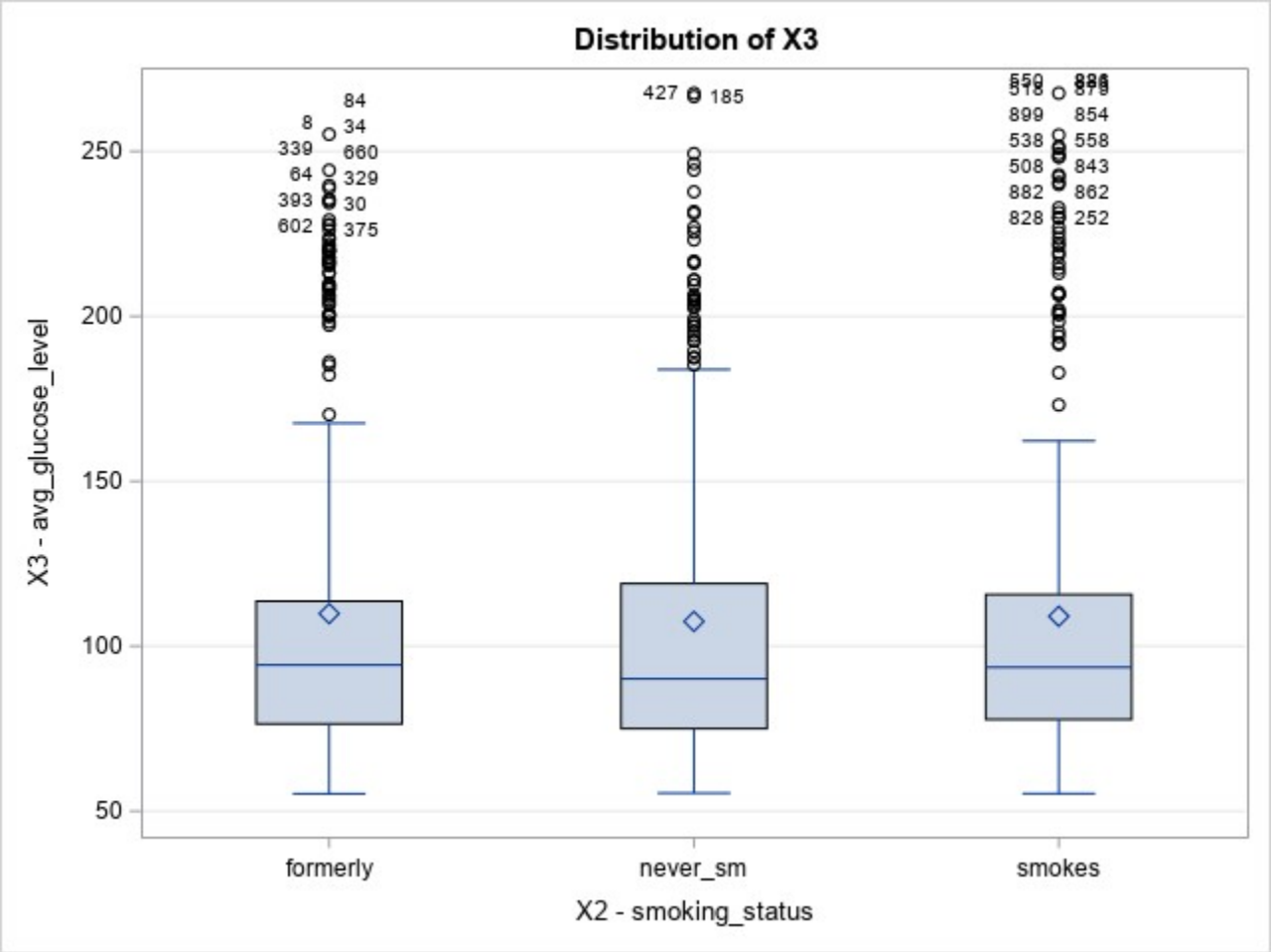
Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	2.39852
Minimum Significant Difference	9.5552

Comparisons significant at the 0.05 level are indicated by *.**

X1 Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Govt_job - Self-emp	2.167	-7.389	11.722	
Govt_job - Private	4.714	-4.842	14.269	
Self-emp - Govt_job	-2.167	-11.722	7.389	
Self-emp - Private	2.547	-7.008	12.102	
Private - Govt_job	-4.714	-14.269	4.842	
Private - Self-emp	-2.547	-12.102	7.008	

SAS Program for RBF-33 Design

The GLM Procedure



SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	1.96264
Least Significant Difference	7.8187

Comparisons significant at the 0.05 level are indicated by *.**

X2 Comparison	Difference Between Means	95% Confidence Limits		
formerly - smokes	0.808	-7.010	8.627	
formerly - never_sm	2.376	-5.443	10.194	
smokes - formerly	-0.808	-8.627	7.010	
smokes - never_sm	1.567	-6.252	9.386	
never_sm - formerly	-2.376	-10.194	5.443	
never_sm - smokes	-1.567	-9.386	6.252	

SAS Program for RBF-33 Design

The GLM Procedure

Bonferroni (Dunn) t Tests for X3

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than Tukey's for all pairwise comparisons.

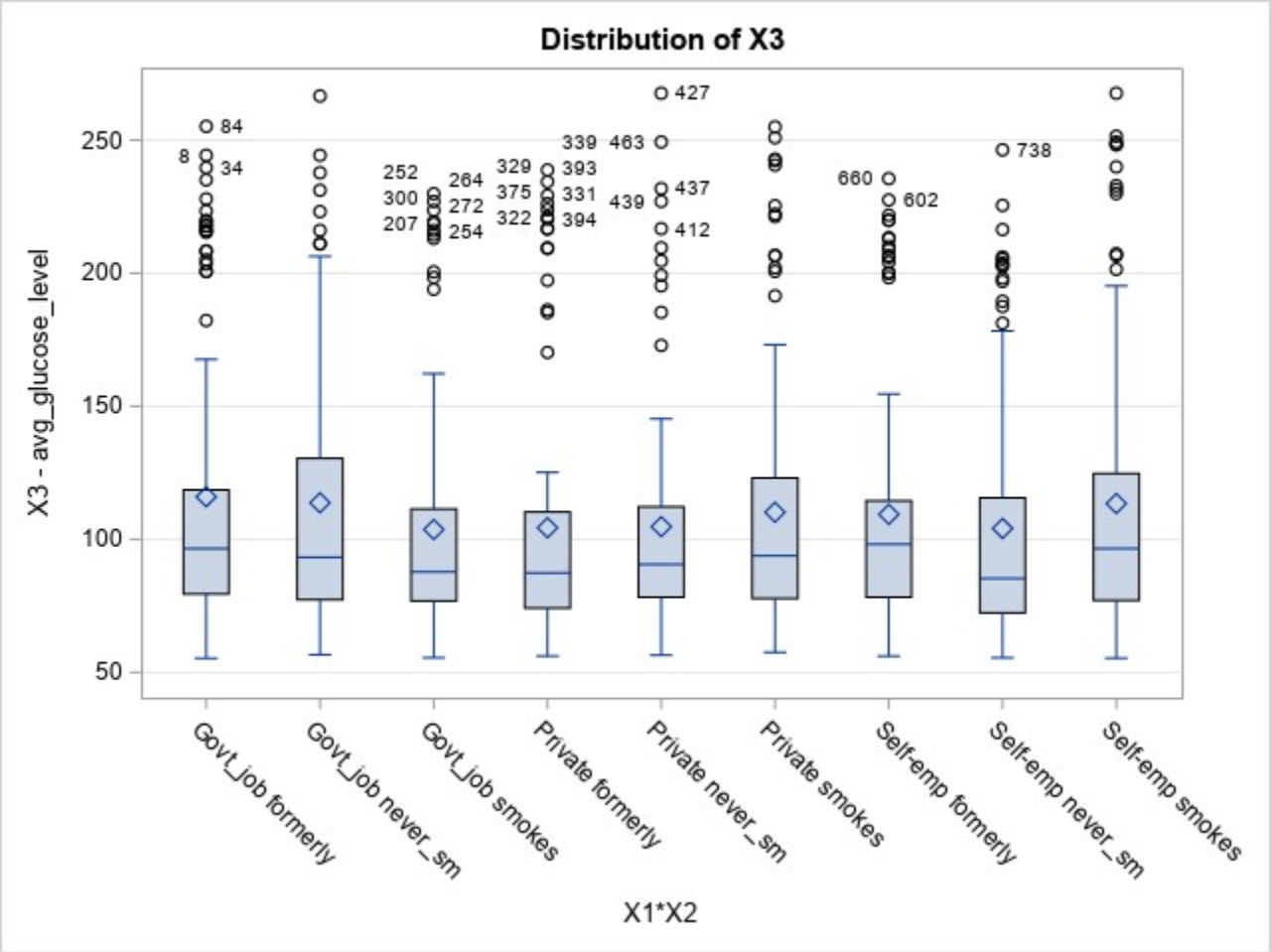
Alpha	0.05
Error Degrees of Freedom	889
Error Mean Square	2380.599
Critical Value of t	2.39852
Minimum Significant Difference	9.5552

Comparisons significant at the 0.05 level are indicated by *.**

X2 Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
formerly - smokes	0.808	-8.747	10.364	
formerly - never_sm	2.376	-7.180	11.931	
smokes - formerly	-0.808	-10.364	8.747	
smokes - never_sm	1.567	-7.988	11.122	
never_sm - formerly	-2.376	-11.931	7.180	
never_sm - smokes	-1.567	-11.122	7.988	

SAS Program for RBF-33 Design

The GLM Procedure



Level of X1	Level of X2	N	X3	
			Mean	Std Dev
Govt_job	formerly	100	115.961600	55.2496592
Govt_job	never_sm	100	113.719000	50.7160741
Govt_job	smokes	100	103.662100	44.2185570
Private	formerly	100	104.335400	49.1887862
Private	never_sm	100	104.732600	44.0938433
Private	smokes	100	110.133900	50.4017791
Self-emp	formerly	100	109.349600	47.5057491
Self-emp	never_sm	100	104.068300	47.4756155
Self-emp	smokes	100	113.425100	52.7872343

SAS Program for RBF-33 Design

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
blck_bmi	3	bmi1 bmi2 bmi3
X1	3	Govt_job Private Self-emp
X2	3	formerly never_sm smokes

Number of Observations Read	900
Number of Observations Used	900

SAS Program for RBF-33 Design

The GLM Procedure

Dependent Variable: X3 X3 - avg_glucose_level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	43176.771	7196.129	3.01	0.0064
Error	893	2131592.804	2387.002		
Corrected Total	899	2174769.575			

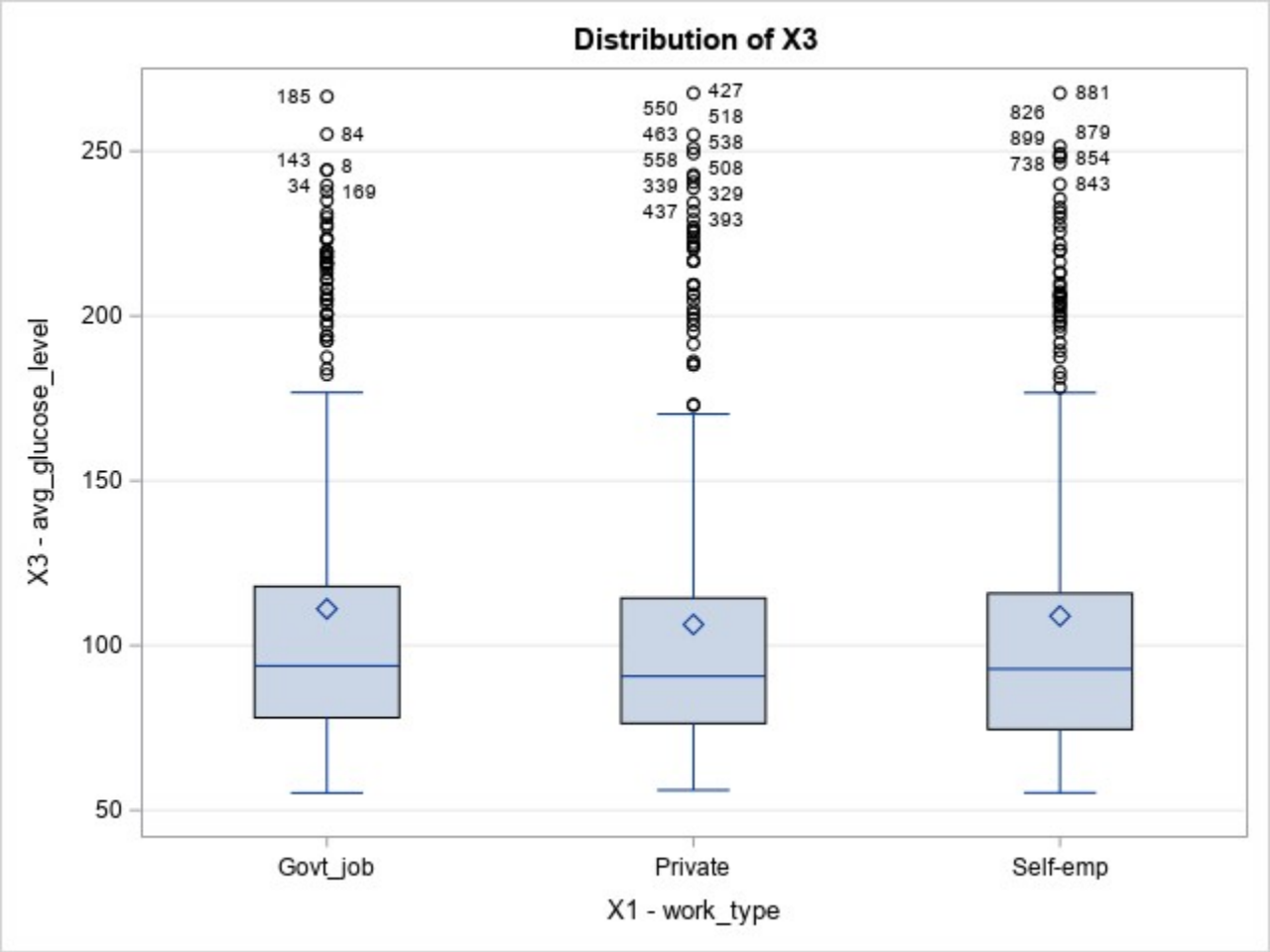
R-Square	Coeff Var	Root MSE	X3 Mean
0.019853	44.89669	48.85695	108.8208

Source	DF	Type I SS	Mean Square	F Value	Pr > F
blck_bmi	2	39522.26835	19761.13418	8.28	0.0003
X1	2	2620.98865	1310.49432	0.55	0.5777
X2	2	1033.51431	516.75716	0.22	0.8054

Source	DF	Type III SS	Mean Square	F Value	Pr > F
blck_bmi	2	38961.56111	19480.78056	8.16	0.0003
X1	2	2620.07744	1310.03872	0.55	0.5778
X2	2	1033.51431	516.75716	0.22	0.8054

SAS Program for RBF-33 Design

The GLM Procedure



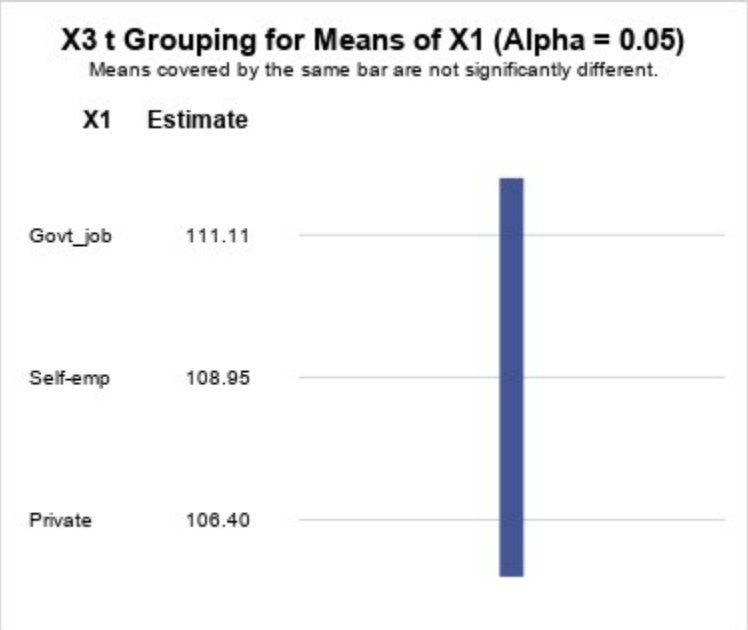
SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002
Critical Value of t	1.96262
Least Significant Difference	7.8292



SAS Program for RBF-33 Design

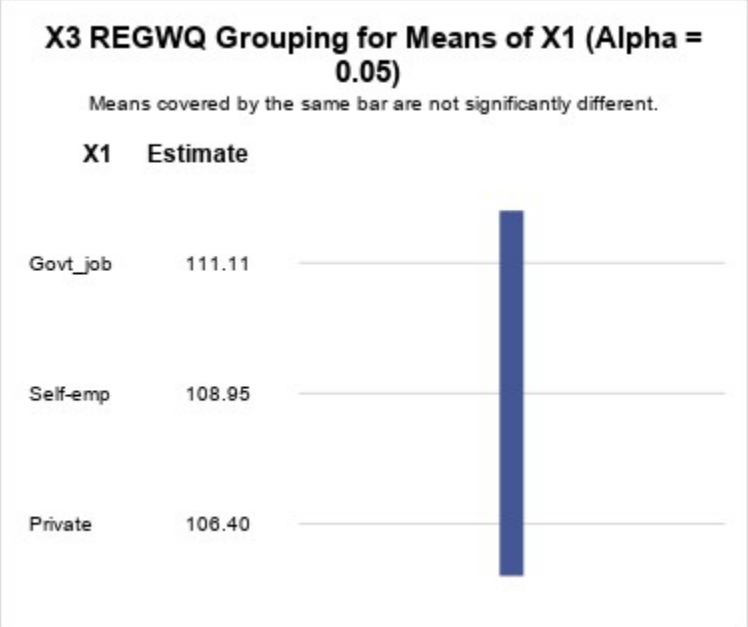
The GLM Procedure

Ryan-Einot-Gabriel-Welsch Multiple Range Test for X3

Note: This test controls the Type I experimentwise error rate.

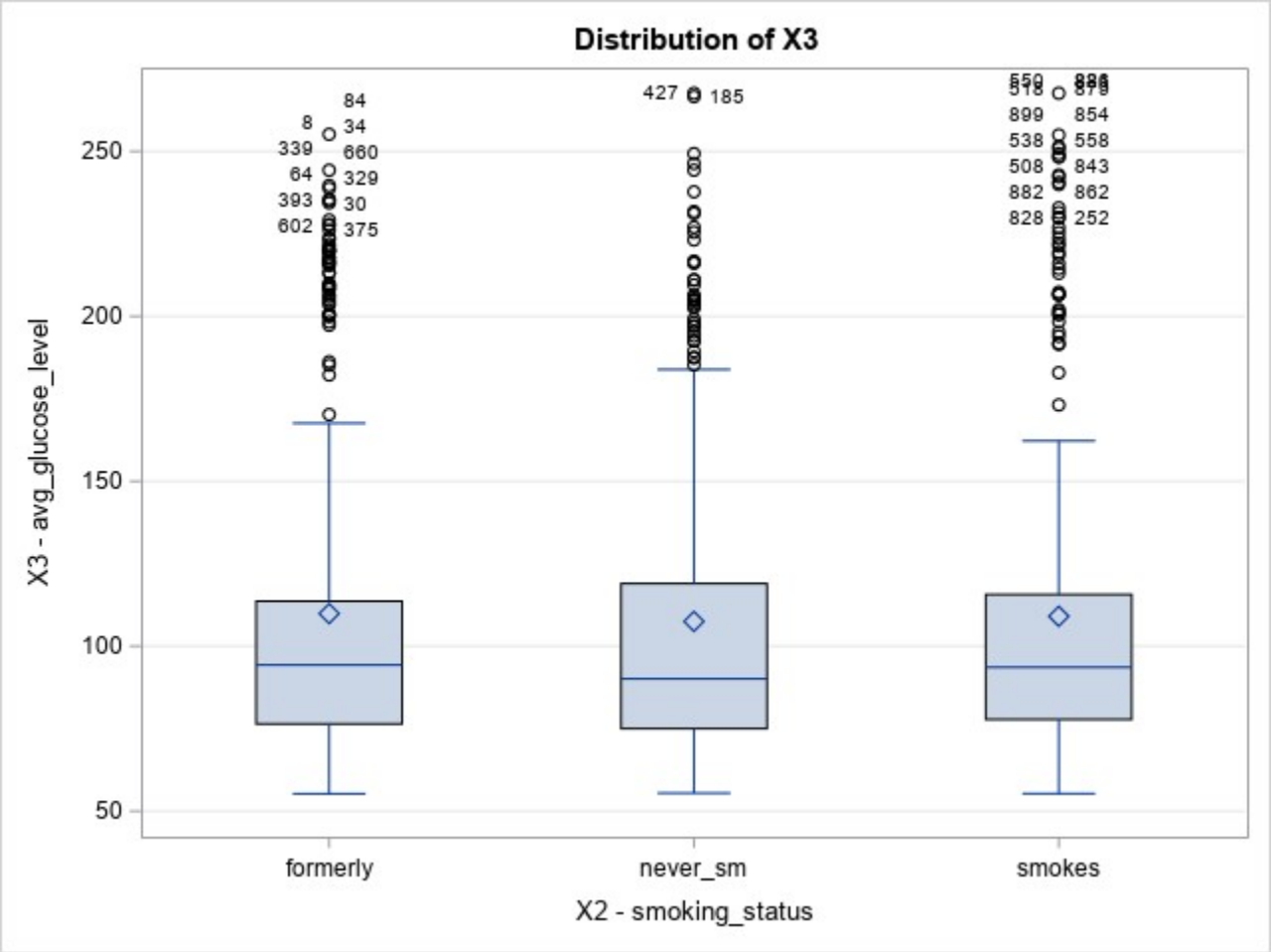
Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002

Number of Means	**2**	**3**
Critical Range	7.8292099	9.3650269



SAS Program for RBF-33 Design

The GLM Procedure



SAS Program for RBF-33 Design

The GLM Procedure

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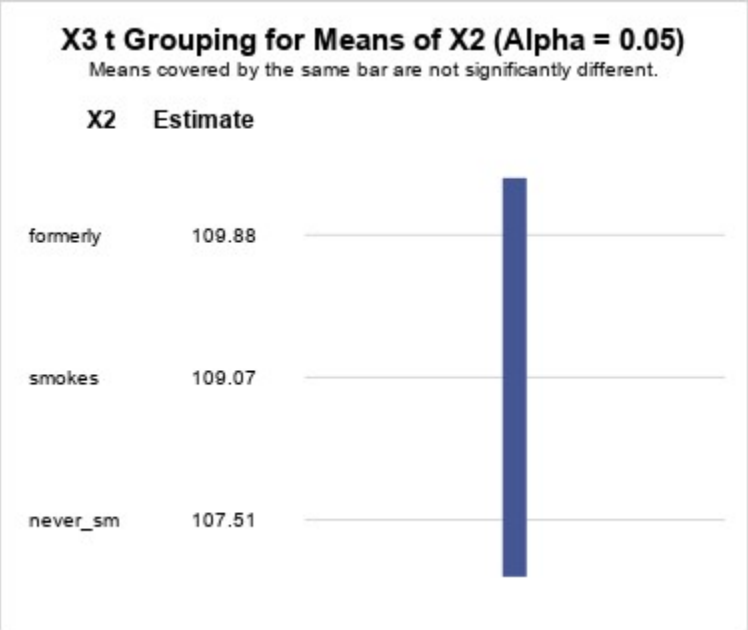

SAS Program for RBF-33 Design

The GLM Procedure

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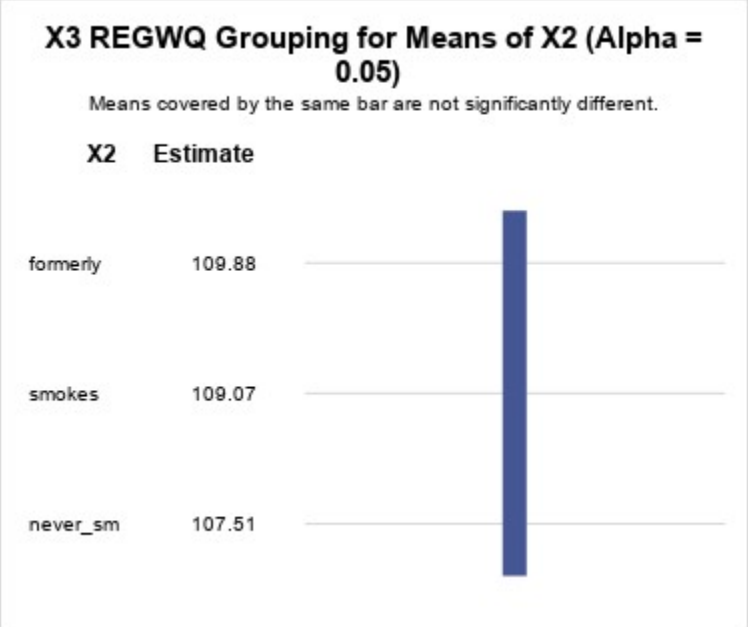
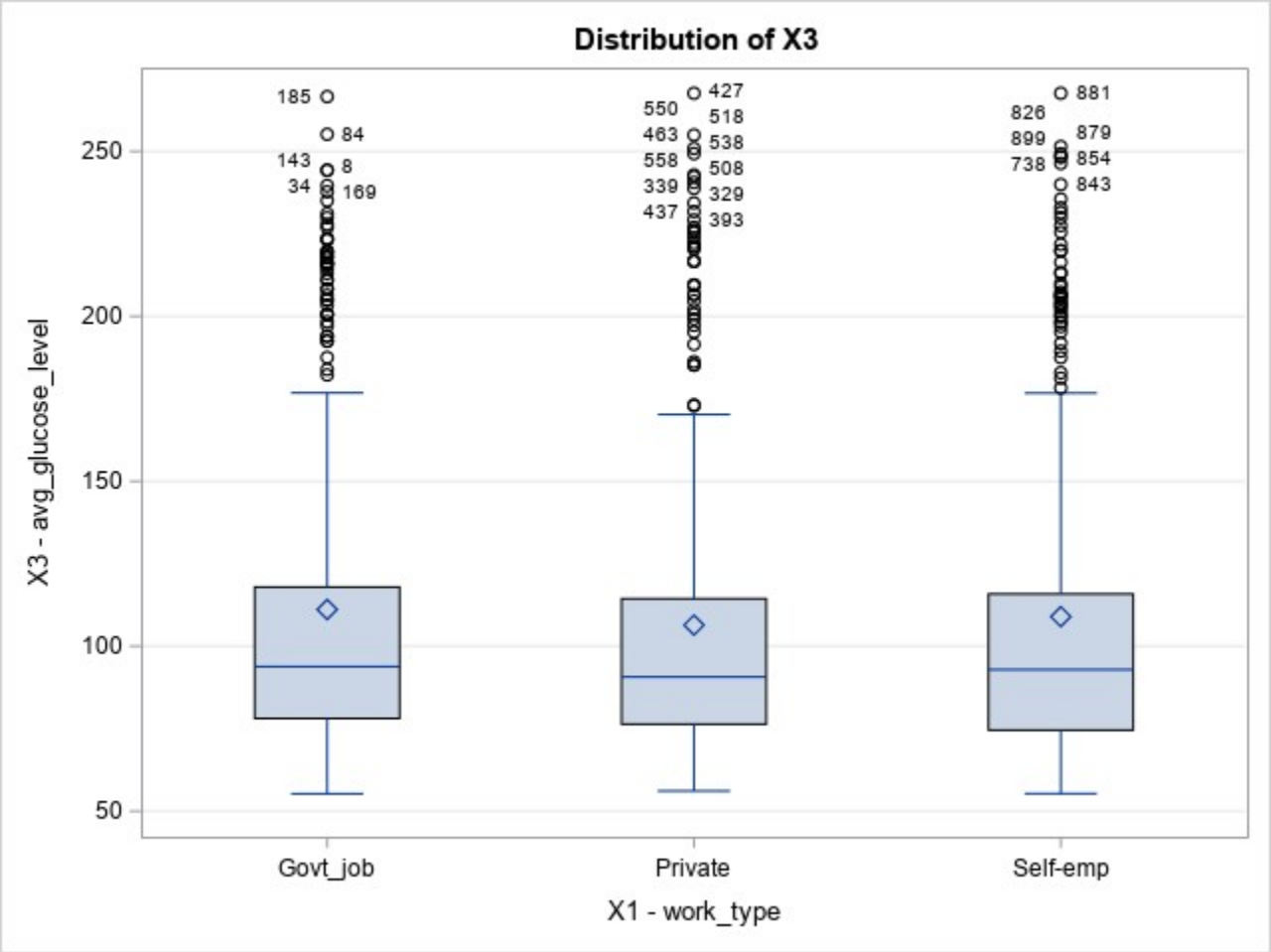
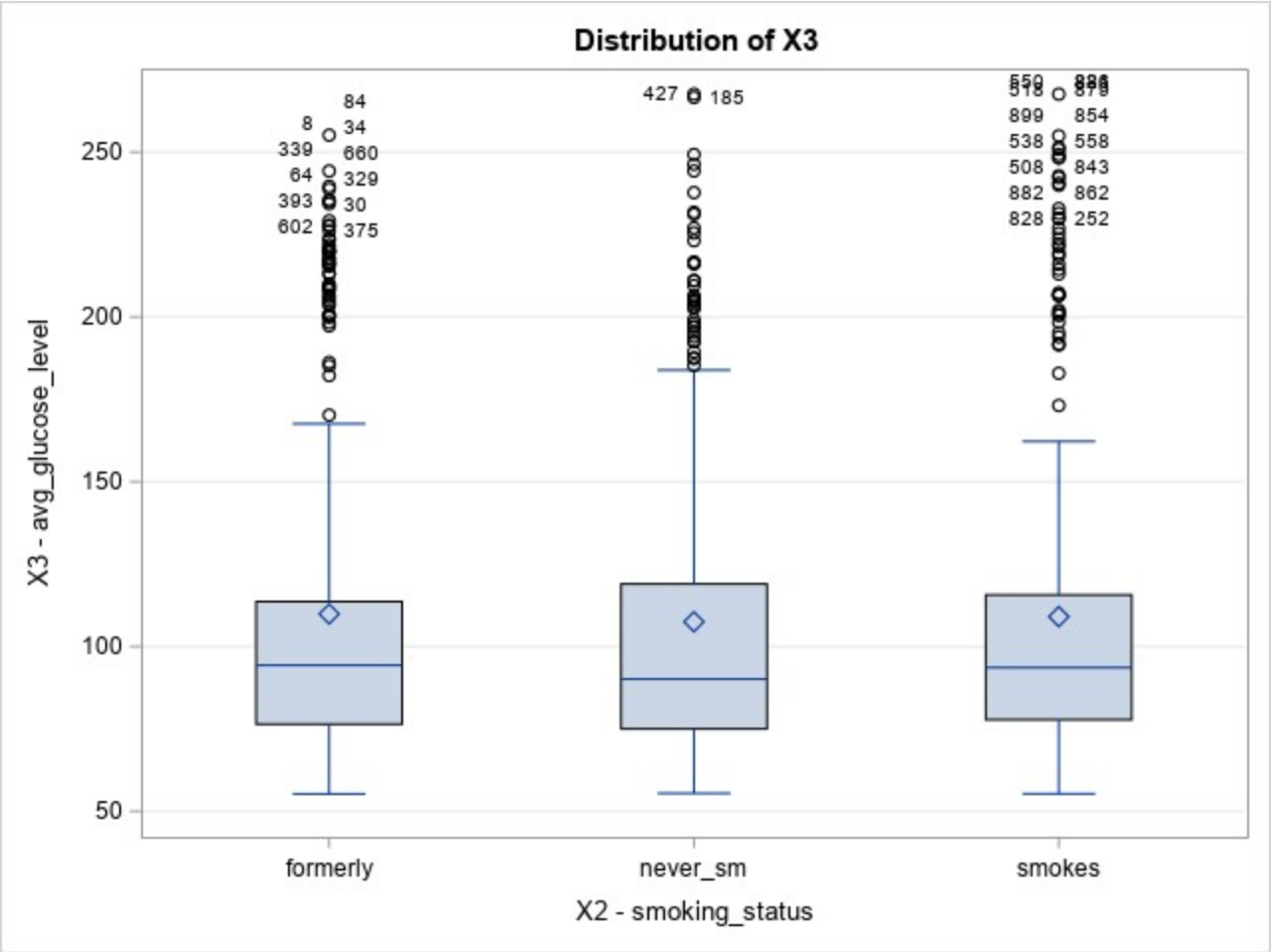


SAS Program for RBF-33 Design

The GLM Procedure



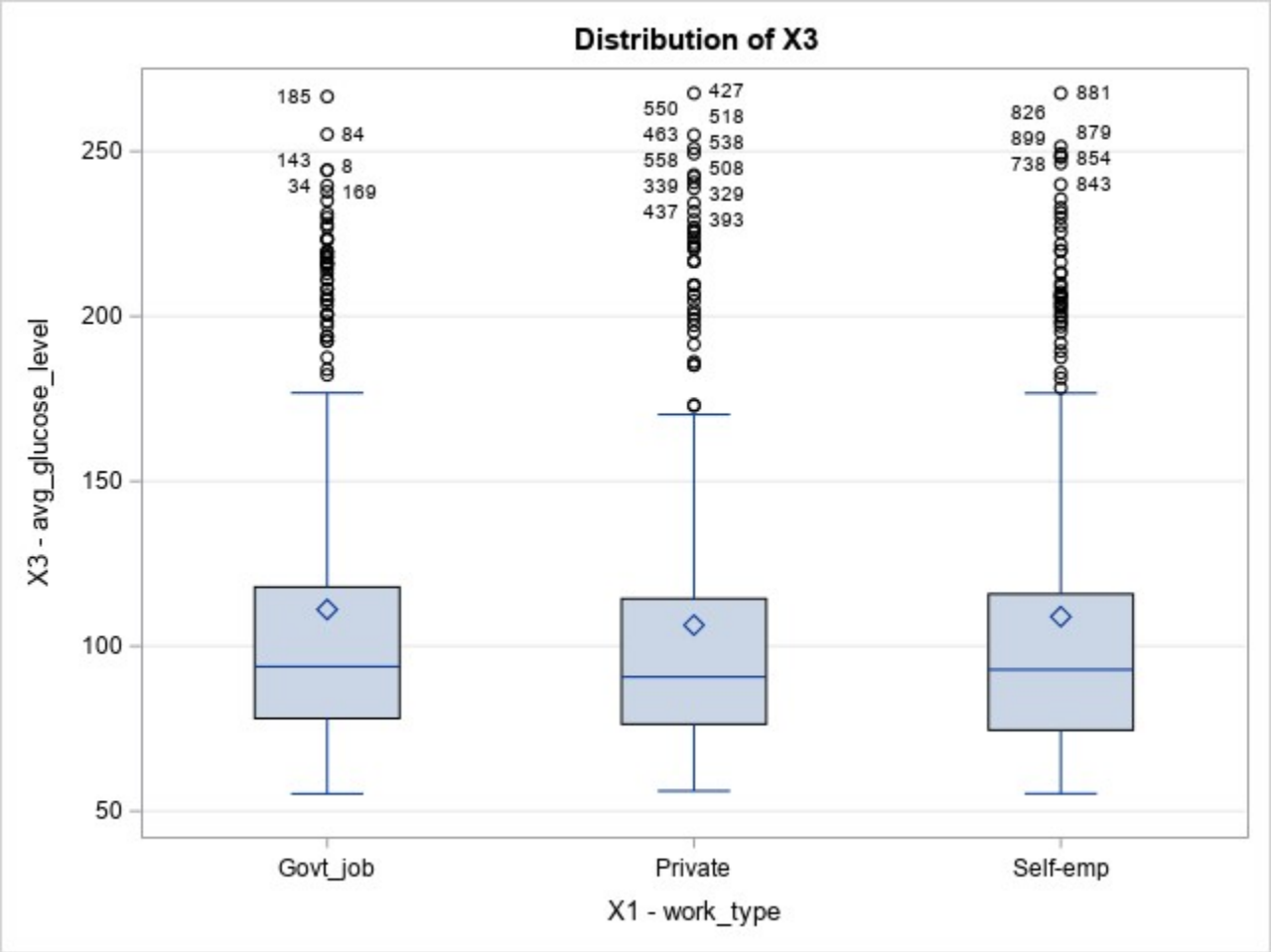
Level of X1	N	X3	
		Mean	Std Dev
Govt_job	300	111.114233	50.3829569
Private	300	106.400633	47.8853369
Self-emp	300	108.947667	49.3037386



Level of X2	N	X3	
		Mean	Std Dev
formerly	300	109.882200	50.8114058
never_sm	300	107.506633	47.5511657
smokes	300	109.073700	49.2710584

SAS Program for RBF-33 Design

The GLM Procedure



SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002
Critical Value of t	1.96262
Least Significant Difference	7.8292

Comparisons significant at the 0.05 level are indicated by *.**

X1 Comparison	Difference Between Means	95% Confidence Limits		
Govt_job - Self-emp	2.167	-5.663	9.996	
Govt_job - Private	4.714	-3.116	12.543	
Self-emp - Govt_job	-2.167	-9.996	5.663	
Self-emp - Private	2.547	-5.282	10.376	
Private - Govt_job	-4.714	-12.543	3.116	
Private - Self-emp	-2.547	-10.376	5.282	

SAS Program for RBF-33 Design

The GLM Procedure

Bonferroni (Dunn) t Tests for X3

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than Tukey's for all pairwise comparisons.

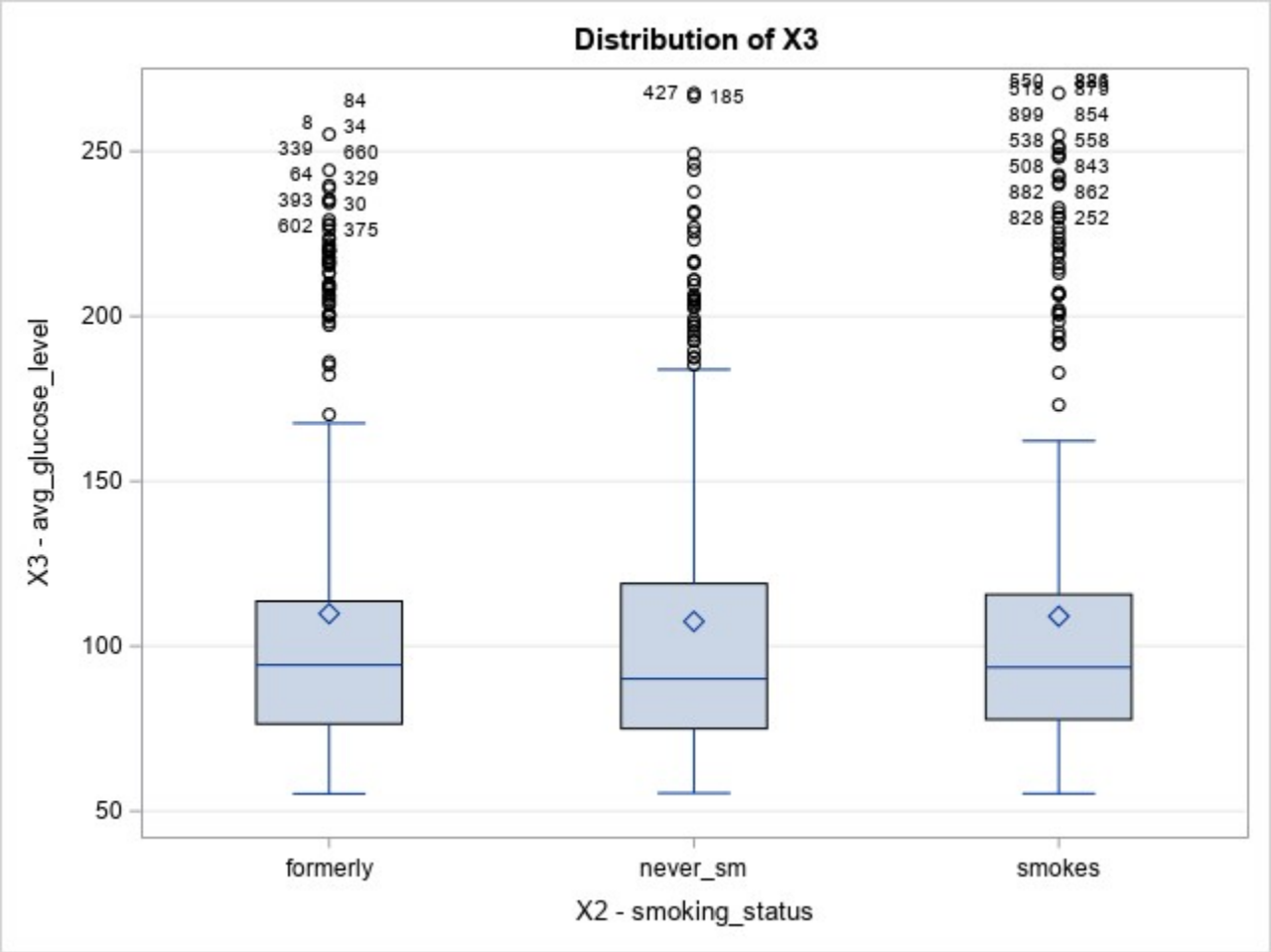
Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002
Critical Value of t	2.39850
Minimum Significant Difference	9.568

Comparisons significant at the 0.05 level are indicated by *.**

X1 Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
Govt_job - Self-emp	2.167	-7.401	11.735	
Govt_job - Private	4.714	-4.854	14.282	
Self-emp - Govt_job	-2.167	-11.735	7.401	
Self-emp - Private	2.547	-7.021	12.115	
Private - Govt_job	-4.714	-14.282	4.854	
Private - Self-emp	-2.547	-12.115	7.021	

SAS Program for RBF-33 Design

The GLM Procedure



SAS Program for RBF-33 Design

The GLM Procedure

t Tests (LSD) for X3

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002
Critical Value of t	1.96262
Least Significant Difference	7.8292

Comparisons significant at the 0.05 level are indicated by *.**

X2 Comparison	Difference Between Means	95% Confidence Limits		
formerly - smokes	0.808	-7.021	8.638	
formerly - never_sm	2.376	-5.454	10.205	
smokes - formerly	-0.808	-8.638	7.021	
smokes - never_sm	1.567	-6.262	9.396	
never_sm - formerly	-2.376	-10.205	5.454	
never_sm - smokes	-1.567	-9.396	6.262	

SAS Program for RBF-33 Design

The GLM Procedure

Bonferroni (Dunn) t Tests for X3

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than Tukey's for all pairwise comparisons.

Alpha	0.05
Error Degrees of Freedom	893
Error Mean Square	2387.002
Critical Value of t	2.39850
Minimum Significant Difference	9.568

Comparisons significant at the 0.05 level are indicated by *.**

X2 Comparison	Difference Between Means	Simultaneous 95% Confidence Limits		
formerly - smokes	0.808	-8.759	10.376	
formerly - never_sm	2.376	-7.192	11.944	
smokes - formerly	-0.808	-10.376	8.759	
smokes - never_sm	1.567	-8.001	11.135	
never_sm - formerly	-2.376	-11.944	7.192	
never_sm - smokes	-1.567	-11.135	8.001	