

Appendices\up]=-08876533i

Appendix (1): The Data Collected From Suakin Weighbridge Station					
No	Axle Code	GVW	Destination	Commodity	Carrier
1	1.2-222	49500	Khartoum	Cons. Mat.	Aabir Sahraa
2	1.2+2.2	43980	Khartoum	Adas	Abarsi
3	1.2+2.2	46220	Khartoum	Adas	Abarsi
4	1.2+2.2	43800	Khartoum	Cons. Mat.	Abarsi
5	1.2+2.2	43600	Khartoum	Rice	Abarsi
6	1.2+2.2	43800	Khartoum	Rice	Abarsi
7	1.2+2.2	43860	Khartoum	Rice	Abarsi
8	1.2+2.2	44020	Khartoum	Rice	Abarsi
9	1.2+2.2	44180	Khartoum	Rice	Abarsi
10	1.2+2.2	44340	Khartoum	Rice	Abarsi
11	1.2+2.2	45000	Khartoum	Rice	Abarsi
12	1.2+2.2	45320	Khartoum	Rice	Abarsi
13	1.2+2.2	45380	Khartoum	Rice	Abarsi
14	1.2+2.2	45420	Khartoum	Rice	Abarsi
15	1.2+2.2	45520	Khartoum	Rice	Abarsi
16	1.2+2.2	45720	Khartoum	Rice	Abarsi
17	11.21+2.2	56000	Khartoum	Container	Abdu Rabbu
18	11.21+2.2	59920	Khartoum	Foods	Abdu Rabbu
19	1.22-22	36000	Khartoum	Cons. Mat.	Absar
20	1.22-222	76060	Khartoum	Container	Abu Klawa
21	1.2-222	50960	Khartoum	Cons. Mat.	Abu Klawa
22	1.2-22	29220	Khartoum	Container	Abu Klawa
23	1.2-22	31280	Khartoum	Container	Abu Klawa
24	1.2-22	33020	Khartoum	Container	Abu Klawa
25	1.2-22	33320	Khartoum	Container	Abu Klawa
26	1.2-22	33520	Khartoum	Container	Abu Klawa
27	1.2-22	33660	Khartoum	Container	Abu Klawa
28	1.2-22	33680	Khartoum	Container	Abu Klawa
29	1.2-22	33800	Khartoum	Container	Abu Klawa
30	1.2-22	34160	Khartoum	Container	Abu Klawa
31	1.2-22	41860	Khartoum	Container	Abu Klawa
32	1.22-22	48960	Khartoum	Container	Abu Klawa
33	1.2-22	29820	Khartoum	Container	Abu Rannat
34	1.2-222	33180	Khartoum	Container	Abu Rannat
35	1.2-22	63820	Khartoum	Esterean	Abu Rannat
36	1.22-222	78000	Khartoum	Esterean	Abu Rannat
37	1.22-222	78800	Khartoum	Esterean	Abu Rannat
38	1.2-22	35780	Khartoum	Foods	Abu Rannat
39	1.2-222	64620	Khartoum	Urea	Abu Rannat
40	1.22-222	71480	Khartoum	Wheat	Abu Rannat
41	1.22-222+22.222	96900	Khartoum	Container	Abu Rashid
42	11.21+2.2	59440	Khartoum	Cement	Aflak
43	1.22-222	78720	Khartoum	Esterean	Aflak
44	11.21+2.2	59760	Khartoum	Esterean	Aflak
45	11.21+2.21	59160	Khartoum	Esterean	Aflak
46	1.22-222	70860	Khartoum	Furness	Aflak

47	1.22-22	64680	Wadmedani	Gasoline	Aflak
48	1.2-222	51020	Wadmedani	Urea	Agood
49	1.2-222	51320	Wadmedani	Urea	Agood
50	1.2-22	34640	Khartoum	Cement	Aknan
51	1.22-22+2.2	63020	Khartoum	Cement	Aknan
52	1.2-22	21220	Khartoum	Cons. Mat.	Aknan
53	1.2-22	24940	Khartoum	Cons. Mat.	Aknan
54	1.2-22	31000	Khartoum	Cons. Mat.	Aknan
55	1.2-222	57040	Khartoum	Gasoline	Aqaleem
56	1.2-222	48820	Wadmedani	Urea	Al Aseela
57	1.2-222	48280	Khartoum	Cons. Mat.	Al Bawasil
58	1.2-222	48840	Khartoum	Steel	Al Bawasil
59	1.2-222	48820	Wadmedani	Cement	Al Bawasil
60	1.2-22	38120	Khartoum	Cons. Mat.	Al Hafian
61	11.21+2.21	63460	Khartoum	Furness	Al Kurdi
62	1.2-222	47140	Wadmedani	Urea	Al Kurdi
63	1.2-22	68260	Wadmedani	Furness	Rashad
64	1.22-222	30520	Khartoum	Cons. Mat.	Al Wasit
65	1.2-222	51160	Khartoum	Wheat	Al Wasit
66	1.22-222	57380	Khartoum	Wheat	Al Wasit
67	1.22-222	57460	Khartoum	Wheat	Al Wasit
68	1.22-222	57520	Khartoum	Wheat	Al Wasit
69	1.22-222	57640	Khartoum	Wheat	Al Wasit
70	1.22-222	57720	Khartoum	Wheat	Al Wasit
71	1.22-222	57820	Khartoum	Wheat	Al Wasit
72	1.22-222	57860	Khartoum	Wheat	Al Wasit
73	1.2-222	47240	Wadmedani	Urea	Al Yasir
74	11.21+2.2	57580	Khartoum	Cons. Mat.	Al Kutla
75	1.2-222	48140	Gedarif	Cement	Annaqil
76	1.2-222	47620	Khartoum	Cement	Annaqil
77	1.2-222	49200	Khartoum	Cement	Annaqil
78	1.2-222	49620	Khartoum	Cement	Annaqil
79	1.2-222	50040	Khartoum	Cement	Annaqil
80	1.2-222	50060	Khartoum	Cement	Annaqil
81	1.2-222	50080	Khartoum	Cement	Annaqil
82	1.2-222	50120	Khartoum	Cement	Annaqil
83	1.2-222	50220	Khartoum	Cement	Annaqil
84	1.2-222	50460	Khartoum	Cement	Annaqil
85	1.2-222	50620	Khartoum	Cement	Annaqil
86	1.2-222	50620	Khartoum	Cement	Annaqil
87	1.2-222	50620	Khartoum	Cement	Annaqil
88	1.2-222	50620	Khartoum	Cement	Annaqil
89	1.2-222	50660	Khartoum	Cement	Annaqil
90	1.2-222	50700	Khartoum	Cement	Annaqil
91	1.2-222	50780	Khartoum	Cement	Annaqil
92	1.2-222	50860	Khartoum	Cement	Annaqil
93	1.2-222	50960	Khartoum	Cement	Annaqil
94	1.2-222	49140	Khartoum	Cons. Mat.	Annaqil
95	1.2-222	46320	Khartoum	Cons. Mat.	Annaqil
96	1.2-222	49320	Khartoum	Cons. Mat.	Annaqil

97	1.22-222+2.222	92040	Khartoum	Steel	Aros Arrimal
98	1.22-222+2.222	93160	Khartoum	Steel	Aros Arrimal
99	1.22-222+2.222	93600	Khartoum	Steel	Aros Arrimal
100	1.22-222+2.222	93940	Khartoum	Steel	Aros Arrimal
101	1.22-222+2.222	93980	Khartoum	Steel	Aros Arrimal
102	1.22-222+2.222	94040	Khartoum	Steel	Aros Arrimal
103	1.22-222+2.222	94540	Khartoum	Steel	Aros Arrimal
104	1.22-222+2.222	94680	Khartoum	Steel	Aros Arrimal
105	1.22-222+2.222	94700	Khartoum	Steel	Aros Arrimal
106	1.22-222+2.222	95300	Khartoum	Steel	Aros Arrimal
107	1.22-222+2.222	96020	Khartoum	Steel	Aros Arrimal
108	1.2-222	34000	Khartoum	Cons. Mat.	Arrihab
109	1.2-222	49760	Kassala	Wheat	Arrihab
110	1.2-222	50400	Kassala	Wheat	Arrihab
111	1.2-222	50520	Kassala	Wheat	Arrihab
112	11.21+2.2	56540	Khartoum	Esterean	Arrihab
113	1.2-222	50040	Khartoum	Sugar	Arrihab
114	1.22-222	53360	Khartoum	Foods	Ashamal
115	1.2-22	69280	Khartoum	Esterean	Asharian
116	1.2-222	49860	Khartoum	Cement	Ashgal
117	11.21+2.2	60240	Khartoum	Cons. Mat.	Ashi
118	1.2+2.2	41020	Khartoum	Cons. Mat.	Ashi
119	1.2-22	40200	Halfa	Urea	Ashraf
120	1.2-22	41120	Khartoum	Cons. Mat.	Ashraf
121	1.2-22	42620	Khartoum	Cons. Mat.	Ashraf
122	1.2-22	36220	Khartoum	Cons. Mat.	Ashraf
123	1.2-22	53460	Khartoum	Cons. Mat.	Ashraf
124	1.2-22	40320	Wadmedani	Urea	Ashraf
125	1.2-22	40660	Wadmedani	Urea	Ashraf
126	1.2-22	40800	Wadmedani	Urea	Ashraf
127	1.2-22	41080	Wadmedani	Urea	Ashraf
128	1.2-22	40040	Khartoum	Wheat	Astrans
129	1.2-22	40520	Khartoum	Wheat	Astrans
130	1.2-22	40900	Khartoum	Wheat	Astrans
131	1.2-22	41580	Khartoum	Wheat	Astrans
132	1.22-22	47760	Khartoum	Wheat	Astrans
133	1.22-22	48280	Khartoum	Wheat	Astrans
134	1.22-222	58480	Khartoum	Wheat	Astrans
135	1.22-222	57940	Wadmedani	Wheat	Astrans
136	11.21+2.2	54840	Khartoum	Cons. Mat.	Athaqeel
137	11.21+2.21	52660	Rabak	Gasoline	Atturaifi
138	1.2-22	42420	Khartoum	Cement	Awad
139	1.2-22	62640	Khartoum	Furness	Awad
140	1.2-222	56740	Khartoum	Furness	Awad
141	1.22-222	57240	Khartoum	Furness	Awad
142	1.22-222	62580	Khartoum	Gasoline	Awad
143	1.2-22	39920	Khartoum	Cons. Mat.	Bakamji
144	1.2-22	39760	Khartoum	Container	Bakamji
145	1.2-22	36360	Kassala	Foods	Bakh
146	1.2-22	41060	Khartoum	Cement	Bakri

147	1.2-22	41300	Khartoum	Cement	Bakri
148	1.2-222	50520	Khartoum	Cement	Bakri
149	1.22-222	58260	Khartoum	Cement	Bakri
150	1.22-222	58440	Khartoum	Cement	Bakri
151	1.22-22+2.22	78480	Khartoum	Cement	Bakri
152	1.2-22	37240	Khartoum	Container	Bani
153	1.2-22	40260	Khartoum	Wheat	Bani
154	1.2-22	40680	Khartoum	Wheat	Bani
155	1.2-22	41320	Khartoum	Wheat	Bani
156	1.2-22	41460	Khartoum	Wheat	Bani
157	1.22-22+22.22	83400	Khartoum	Wheat	Bani
158	1.22-22+22.22	85200	Khartoum	Wheat	Bani
159	1.2-22	40620	Khartoum	Container	Bashar
160	1.2-22	39180	Wadmedani	Container	Bashar
161	1.2-222	46820	Wadmedani	Wheat	Bashar
162	1.22-22	53220	Khartoum	Esterean	Betar
163	1.2-222	47620	El Obied	Foods	Bigboss
164	1.22-222	58120	El Obied	Foods	Bigboss
165	1.22-22+2.22	76480	El Obied	Foods	Bigboss
166	1.22-22+2.22	78840	El Obied	Foods	Bigboss
167	1.2-222	47660	El Obied	Foods	Bigboss
168	1.2-22	34260	Khartoum	Container	Bigboss
169	1.2-22	35420	Khartoum	Container	Bigboss
170	1.22-22	43780	Khartoum	Container	Bigboss
171	1.22-22	47040	Khartoum	Container	Bigboss
172	1.22-222	60400	Wadmedani	Foods	Bigboss
173	1.2+2.2	45100	Damazin	Salt	Commercial
174	1.2+2.2	46680	Damazin	Salt	Commercial
175	1.2+2.2	45100	Damazin	Wheat	Commercial
176	1.22	28860	El Obied	Cons. Mat.	Commercial
177	1.22-22	37280	El Obied	Container	Commercial
178	1.22-222	45120	El Obied	Container	Commercial
179	1.2-22	38620	El Obied	Foods	Commercial
180	1.2+2.2	46820	El Obied	Salt	Commercial
181	1.2+2.2	47700	El Obied	Salt	Commercial
182	11.21+2.2	58340	El Obied	Salt	Commercial
183	1.2-22	36200	El Obied	Steel	Commercial
184	1.2-222	48500	El Obied	Steel	Commercial
185	11.21+2.2	60000	El Obied	Sugar	Commercial
186	1.2-22	37160	Gedarif	Salt	Commercial
187	1.22	25200	Haiya	Cement	Commercial
188	1.2-22	29700	Haiya	Foods	Commercial
189	11.21+2.21	57540	Halfa	Cement	Commercial
190	1.2+2.2	28920	Kassala	Cons. Mat.	Commercial
191	1.2+2.2	44200	Khartoum	Cement	Commercial
192	1.22+2.2	52540	Khartoum	Cement	Commercial
193	1.2+2.2	45060	Khartoum	Cons. Mat.	Commercial
194	1.2-22	30460	Khartoum	Cons. Mat.	Commercial
195	11.21+2.2	60200	Khartoum	Cons. Mat.	Commercial
196	1.2-22	33600	Khartoum	Cons. Mat.	Commercial

197	1.2+2.2	42560	Khartoum	Cons. Mat.	Commercial
198	1.2-222	44860	Khartoum	Cons. Mat.	Commercial
199	1.2-222	46580	Khartoum	Cons. Mat.	Commercial
200	1.22+2.2	45080	Khartoum	Cons. Mat.	Commercial
201	1.22+2.2	52800	Khartoum	Cons. Mat.	Commercial
202	1.2-22	22980	Khartoum	Cons. Mat.	Commercial
203	1.2-22	34180	Khartoum	Cons. Mat.	Commercial
204	1.2-22	38520	Khartoum	Cons. Mat.	Commercial
205	1.22-22	28180	Khartoum	Cons. Mat.	Commercial
206	1.22	34720	Khartoum	Cons. Mat.	Commercial
207	1.2+2.2	41460	Khartoum	Cons. Mat.	Commercial
208	1.2+2.2	44780	Khartoum	Cons. Mat.	Commercial
209	1.22	31200	Khartoum	Cons. Mat.	Commercial
210	1.22-22	38620	Khartoum	Cons. Mat.	Commercial
211	1.22+2.2	32620	Khartoum	Cons. Mat.	Commercial
212	1.22-222	54500	Khartoum	Cons. Mat.	Commercial
213	1.22	25380	Khartoum	Cons. Mat.	Commercial
214	1.2-22	32300	Khartoum	Cons. Mat.	Commercial
215	1.2-22	36120	Khartoum	Cons. Mat.	Commercial
216	1.2+2.2	42280	Khartoum	Cons. Mat.	Commercial
217	1.22-22	43980	Khartoum	Cons. Mat.	Commercial
218	1.2-22	22840	Khartoum	Container	Commercial
219	1.2-22	27500	Khartoum	Container	Commercial
220	1.2-22	28600	Khartoum	Container	Commercial
221	1.2-22	30140	Khartoum	Container	Commercial
222	1.2-22	30400	Khartoum	Container	Commercial
223	1.2-22	30820	Khartoum	Container	Commercial
224	1.2-22	30880	Khartoum	Container	Commercial
225	1.2-22	32120	Khartoum	Container	Commercial
226	1.2-22	33200	Khartoum	Container	Commercial
227	1.2-22	33480	Khartoum	Container	Commercial
228	1.2-22	33500	Khartoum	Container	Commercial
229	1.2-22	33780	Khartoum	Container	Commercial
230	1.2-22	34720	Khartoum	Container	Commercial
231	1.2-22	34900	Khartoum	Container	Commercial
232	1.2-22	37700	Khartoum	Container	Commercial
233	1.2-22	38480	Khartoum	Container	Commercial
234	1.2-22	40020	Khartoum	Container	Commercial
235	1.2-22	40400	Khartoum	Container	Commercial
236	1.2-22	40580	Khartoum	Container	Commercial
237	1.2-22	40720	Khartoum	Container	Commercial
238	1.22-22	25660	Khartoum	Container	Commercial
239	1.22-22	40260	Khartoum	Container	Commercial
240	1.22-22	47920	Khartoum	Container	Commercial
241	1.2-222	34460	Khartoum	Container	Commercial
242	1.2-222	35440	Khartoum	Container	Commercial
243	1.2-222	41520	Khartoum	Container	Commercial
244	1.2-222	45580	Khartoum	Container	Commercial
245	1.2-222	46820	Khartoum	Container	Commercial
246	1.22+2.2	37600	Khartoum	Container	Commercial

247	1.22+2.2	58400	Khartoum	Container	Commercial
248	1.22-222	57200	Khartoum	Container	Commercial
249	1.22-222	58020	Khartoum	Container	Commercial
250	11.21+2.2	52380	Khartoum	Container	Commercial
251	11.21+2.2	53760	Khartoum	Container	Commercial
252	11.21+2.2	55760	Khartoum	Container	Commercial
253	11.21+2.2	56420	Khartoum	Container	Commercial
254	11.21+2.2	57920	Khartoum	Container	Commercial
255	11.21+2.2	58300	Khartoum	Container	Commercial
256	11.21+2.21	53000	Khartoum	Container	Commercial
257	11.21+2.21	53000	Khartoum	Container	Commercial
258	11.21+2.21	53900	Khartoum	Container	Commercial
259	11.21+2.21	54040	Khartoum	Container	Commercial
260	1.2+2.2	45140	Khartoum	Esterean	Commercial
261	1.2-22	40880	Khartoum	Foods	Commercial
262	11.21+2.21	58540	Khartoum	Foods	Commercial
263	11.21+2.21	60080	Khartoum	Foods	Commercial
264	11.21+2.2	60320	Khartoum	Foods	Commercial
265	11.21+2.2	58720	Khartoum	Foods	Commercial
266	1.22+2.2	37500	Khartoum	Foods	Commercial
267	1.22-222	58160	Khartoum	Foods	Commercial
268	1.22-22+2.22	67220	Khartoum	Foods	Commercial
269	1.2-22	29480	Khartoum	Foods	Commercial
270	1.2-22	37260	Khartoum	Foods	Commercial
271	11.21+2.2	60000	Khartoum	Foods	Commercial
272	1.2+2.2	43660	Khartoum	Foods	Commercial
273	1.2+2.2	43740	Khartoum	Foods	Commercial
274	1.2+2.2	43840	Khartoum	Foods	Commercial
275	1.2+2.2	44320	Khartoum	Foods	Commercial
276	1.22+2.2	46720	Khartoum	Foods	Commercial
277	11.21+2.2	54420	Khartoum	Foods	Commercial
278	11.21+2.2	56320	Khartoum	Foods	Commercial
279	11.21+2.2	56360	Khartoum	Foods	Commercial
280	11.21+2.2	59380	Khartoum	Foods	Commercial
281	1.2-22	32380	Khartoum	Foods	Commercial
282	11.21+2.2	59480	Khartoum	Foods	Commercial
283	1.22	32580	Khartoum	Foods	Commercial
284	1.2-22	32060	Khartoum	Foods	Commercial
285	1.2-22	36500	Khartoum	Foods	Commercial
286	1.22+2.2	50280	Khartoum	Foods	Commercial
287	11.21+2.2	46340	Khartoum	Foods	Commercial
288	11.21+2.2	48000	Khartoum	Foods	Commercial
289	11.21+2.2	51000	Khartoum	Foods	Commercial
290	11.21+2.2	55820	Khartoum	Foods	Commercial
291	1.2+2.2	46480	Khartoum	Salt	Commercial
292	1.2-222	39100	Khartoum	Salt	Commercial
293	1.22+2.2	43260	Khartoum	Salt	Commercial
294	11.21+2.2	54960	Khartoum	Salt	Commercial
295	11.21+2.2	56280	Khartoum	Salt	Commercial
296	1.2-22	41320	Khartoum	Steel	Commercial

297	1.2-22	37360	Khartoum	Steel	Commercial
298	1.22+2.2	47060	Khartoum	Steel	Commercial
299	1.22-222	59040	Khartoum	Steel	Commercial
300	1.2+2.2	38060	Khartoum	Steel	Commercial
301	1.2+2.2	43500	Khartoum	Steel	Commercial
302	1.22-222	57900	Khartoum	Steel	Commercial
303	1.2+2.2	35800	Khartoum	Steel	Commercial
304	1.2-22	38100	Khartoum	Urea	Commercial
305	1.22-222	64300	Khartoum	Urea	Commercial
306	11.21+2.2	56740	Khartoum	Urea	Commercial
307	1.2+2.2	43700	Wadmedani	Cement	Commercial
308	1.22+2.2	42020	Wadmedani	Cons. Mat.	Commercial
309	1.22+2.2	33640	Wadmedani	Cons. Mat.	Commercial
310	1.2-222	43420	Wadmedani	Cons. Mat.	Commercial
311	1.2-22	29960	Wadmedani	Container	Commercial
312	1.2+2.2	40580	Wadmedani	Foods	Commercial
313	1.22+2.2	40700	Wadmedani	Foods	Commercial
314	1.2+2.2	46900	Wadmedani	Salt	Commercial
315	1.2-22	40000	Wadmedani	Urea	Commercial
316	1.2+2.2	42640	Wadmedani	Urea	Commercial
317	1.2+2.2	43280	Wadmedani	Urea	Commercial
318	1.2+2.2	43680	Wadmedani	Urea	Commercial
319	1.2+2.2	43760	Wadmedani	Urea	Commercial
320	1.2+2.2	44440	Wadmedani	Urea	Commercial
321	1.2-222	49040	Wadmedani	Urea	Commercial
322	1.22+2.2	43740	Wadmedani	Urea	Commercial
323	1.22+2.2	44120	Wadmedani	Urea	Commercial
324	1.22+2.2	44260	Wadmedani	Urea	Commercial
325	1.22+2.2	45800	Wadmedani	Urea	Commercial
326	1.22+2.2	52560	Wadmedani	Urea	Commercial
327	1.22-222	57120	Wadmedani	Urea	Commercial
328	11.21+2.2	55680	Wadmedani	Urea	Commercial
329	1.22+2.2	49520	Rabak	Salt	Commercial
330	1.2+2.2	44200	Rabak	Urea	Commercial
331	1.2-222	51480	Rabak	Urea	Commercial
332	1.2-222	48020	Khartoum	Durra	Commodor
333	1.2-222	49980	Khartoum	Durra	Commodor
334	1.2-222	50080	Khartoum	Durra	Commodor
335	1.2-222	50120	Khartoum	Durra	Commodor
336	1.2-222	50820	Khartoum	Durra	Commodor
337	1.2-222	49280	Khartoum	Foods	Commodor
338	11.21+2.2	52420	Khartoum	Foods	Darka
339	1.22+2.2	42420	Khartoum	Container	Dary
340	1.22-22+2.22	69340	Khartoum	Cement	Decor House
341	1.22-22+2.22	69380	Khartoum	Cement	Decor House
342	1.22-22+2.22	69660	Khartoum	Cement	Decor House
343	1.22-22+2.22	70960	Khartoum	Cement	Decor House
344	1.22-22+2.22	71440	Khartoum	Cement	Decor House
345	1.2-222	49640	Khartoum	Cons. Mat.	Decor House
346	1.2-222	50380	Khartoum	Cons. Mat.	Decor House



347	1.2-222	55480	Khartoum	Cons. Mat.	Decor House
348	1.22-22+2.22	56920	Khartoum	Cons. Mat.	Decor House
349	1.2-22	40400	Khartoum	Container	Decor House
350	1.22-22+2.22	70880	Wadmedani	Cons. Mat.	Decor House
351	1.22-222+22.222	87660	Khartoum	Cons. Mat.	Delal
352	1.22-222+22.222	94500	Khartoum	Cons. Mat.	Delal
353	1.22-222+22.222	94660	Khartoum	Cons. Mat.	Delal
354	1.22-222+22.222	102340	Rabak	Urea	Delal
355	1.22-222+22.222	102460	Rabak	Urea	Delal
356	1.22-222+22.222	102620	Rabak	Urea	Delal
357	1.22-222+22.222	102640	Rabak	Urea	Delal
358	1.22-222+22.222	102760	Rabak	Urea	Delal
359	1.2-222	50820	Khartoum	Cement	Demetry
360	1.22-22	40760	Gedarif	Salt	Diyabat
361	1.2-222	47220	Khartoum	Cons. Mat.	Ecotrans
362	1.2-222	47320	Khartoum	Container	Ecotrans
363	1.2-222	46320	Khartoum	Sugar	Ecotrans
364	1.2-222	46620	Khartoum	Sugar	Ecotrans
365	1.2-222	47000	Khartoum	Sugar	Ecotrans
366	1.2-222	47120	Khartoum	Sugar	Ecotrans
367	1.2-222	47180	Khartoum	Sugar	Ecotrans
368	1.2-222	47300	Khartoum	Sugar	Ecotrans
369	1.2-222	47360	Khartoum	Sugar	Ecotrans
370	1.2-222	47360	Khartoum	Sugar	Ecotrans
371	1.2-222	47520	Khartoum	Sugar	Ecotrans
372	1.2-222	47620	Khartoum	Sugar	Ecotrans
373	1.2-222	47740	Khartoum	Sugar	Ecotrans
374	1.2-222	47020	Wadmedani	Urea	Ecotrans
375	1.2-222	45820	Khartoum	Foods	Ele
376	11.21+2.21	55760	Kassala	Gasoline	Fast
377	1.22-222	60000	Khartoum	Furness	Fast
378	1.2-22	38700	El Obied	Salt	Fedows
379	1.2-22	35460	Khartoum	Cons. Mat.	Fedows
380	1.2-22	41120	Khartoum	Wheat	Hada
381	1.2-22	41240	Khartoum	Wheat	Hada
382	1.2-22	41240	Khartoum	Wheat	Hada
383	1.2-22	41250	Khartoum	Wheat	Hada
384	1.2-22	41300	Khartoum	Wheat	Hada
385	1.2-22	41300	Khartoum	Wheat	Hada
386	1.2-22	41300	Khartoum	Wheat	Hada
387	1.2-22	41360	Khartoum	Wheat	Hada
388	1.2-22	41380	Khartoum	Wheat	Hada
389	1.2-22	41420	Khartoum	Wheat	Hada
390	1.2-22	41860	Khartoum	Wheat	Hada
391	1.2+2.2	43640	Gedarif	Urea	Halfa Group
392	1.2+2.2	44280	Wadmedani	Container	Halfa Group
393	1.2+2.2	43820	Wadmedani	Urea	Halfa Group
394	1.2+2.2	43960	Wadmedani	Urea	Halfa Group
395	1.2+2.2	44240	Wadmedani	Urea	Halfa Group
396	1.2+2.2	44640	Wadmedani	Urea	Halfa Group

397	1.2+2.2	44640	Wadmedani	Urea	Halfa Group
398	1.2+2.2	44780	Wadmedani	Urea	Halfa Group
399	11.21+2.2	59320	Wadmedani	Urea	Halfa Group
400	1.2-22	39800	Wadmedani	Salt	Hamid
401	1.2-22	41340	Wadmedani	Salt	Hamid
402	1.2-222	42660	Wadmedani	Salt	Hamid
403	1.22-222	57560	Khartoum	Cement	Ibrahimi
404	1.22-222	46560	Khartoum	Cons. Mat.	Ibrahimi
405	1.22-222	30520	Khartoum	Cons. Mat.	Ibrahimi
406	1.22-222	54560	Rabak	Steel	Ibrahimi
407	1.22-222	55220	Rabak	Steel	Ibrahimi
408	1.22-222	55660	Rabak	Steel	Ibrahimi
409	1.22-222	55940	Rabak	Steel	Ibrahimi
410	1.22-222	57440	Rabak	Urea	Ibrahimi
411	1.22-222	57460	Rabak	Urea	Ibrahimi
412	1.2-222	49320	Khartoum	Cons. Mat.	Idrisi
413	1.22-222	36640	El Obied	Cons. Mat.	Keer
414	1.22-222+22.22	74620	El Obied	Steel	Keer
415	1.22-222	37520	Heglieg	Cons. Mat.	Keer
416	1.22-222	38900	Khartoum	Cons. Mat.	Keer
417	11.21+2.21	64620	Khartoum	Container	Khawla
418	1.22-222	57220	Khartoum	Cement	Khawla
419	1.22-222	57360	Khartoum	Cement	Khawla
420	1.22-222	57680	Khartoum	Cement	Khawla
421	1.22-222	58580	Khartoum	Cement	Khawla
422	1.2-222	20120	Khartoum	Cons. Mat.	Lebak
423	1.2-222	21280	Khartoum	Cons. Mat.	Lebak
424	1.2-222	49640	Khartoum	Foods	Lebak
425	1.2-222	51000	Khartoum	Foods	Lebak
426	1.2-222	20360	Khartoum	Steel	Lebak
427	1.2-222	22180	Khartoum	Steel	Lebak
428	1.2-22	22340	Khartoum	Container	Leyland
429	1.2-222	42840	Khartoum	Container	Leyland
430	1.2-222	62500	Wadmedani	Esterean	Leyland
431	1.2-222	65780	Wadmedani	Esterean	Leyland
432	1.2-222	66060	Wadmedani	Esterean	Leyland
433	11.21+2.2	41000	Wadmedani	Furness	Leyland
434	1.2-22	54020	Wadmedani	Gasoline	Leyland
435	1.2-222	65260	Wadmedani	Gasoline	Leyland
436	1.2-22	40800	Khartoum	Container	Macromas
437	1.22-22	47990	Halfa	Urea	Madian
438	1.22-22	49000	Halfa	Urea	Madian
439	1.2-222	49600	Halfa	Urea	Madian
440	1.2-222	49700	Halfa	Urea	Madian
441	1.2-222	49980	Halfa	Urea	Madian
442	1.2-222	50020	Halfa	Urea	Madian
443	1.2-222	50060	Halfa	Urea	Madian
444	1.2-222	50500	Halfa	Urea	Madian
445	1.2-222	50800	Halfa	Urea	Madian
446	1.2-222	50940	Halfa	Urea	Madian

447	1.2-222	50960	Halfa	Urea	Madian
448	1.2-222	51100	Halfa	Urea	Madian
449	1.2-222	51280	Halfa	Urea	Madian
450	1.22-222	56400	Halfa	Urea	Madian
451	1.22-222	57860	Halfa	Urea	Madian
452	1.2-222	46920	Khartoum	Adas	Madian
453	1.2-222	48120	Khartoum	Adas	Madian
454	1.2-222	48000	Khartoum	Cement	Madian
455	1.2-222	49260	Khartoum	Cement	Madian
456	1.2-222	49700	Khartoum	Cement	Madian
457	1.2-222	50220	Khartoum	Cement	Madian
458	1.2-222	50640	Khartoum	Cement	Madian
459	1.2-222	51640	Khartoum	Cement	Madian
460	1.22-222	55280	Khartoum	Cement	Madian
461	1.2-222	49340	Khartoum	Cons. Mat.	Madian
462	1.22-222	49700	Khartoum	Cons. Mat.	Madian
463	1.22-222	55020	Khartoum	Cons. Mat.	Madian
464	1.22-222	55420	Khartoum	Cons. Mat.	Madian
465	1.2-222	48280	Khartoum	Rice	Madian
466	1.2-222	50940	Khartoum	Rice	Madian
467	1.2-222	51160	Khartoum	Rice	Madian
468	1.2-222	50320	Khartoum	Urea	Madian
469	1.22-222	55260	Khartoum	Wheat	Madian
470	1.2-222	50160	Wadmedani	Cement	Madian
471	1.2-222	50660	Wadmedani	Cement	Madian
472	1.2-222	51140	Wadmedani	Cement	Madian
473	1.22-222	54760	Wadmedani	Cement	Madian
474	1.2-222	50360	Wadmedani	Cons. Mat.	Madian
475	1.22-222	57000	Wadmedani	Container	Madian
476	1.22-22	47160	Wadmedani	Urea	Madian
477	1.22-22	50100	Wadmedani	Urea	Madian
478	1.2-222	48260	Wadmedani	Urea	Madian
479	1.2-222	48660	Wadmedani	Urea	Madian
480	1.2-222	48780	Wadmedani	Urea	Madian
481	1.2-222	48960	Wadmedani	Urea	Madian
482	1.2-222	49200	Wadmedani	Urea	Madian
483	1.2-222	49420	Wadmedani	Urea	Madian
484	1.2-222	49620	Wadmedani	Urea	Madian
485	1.2-222	49720	Wadmedani	Urea	Madian
486	1.2-222	49720	Wadmedani	Urea	Madian
487	1.2-222	49960	Wadmedani	Urea	Madian
488	1.2-222	50000	Wadmedani	Urea	Madian
489	1.2-222	50060	Wadmedani	Urea	Madian
490	1.2-222	50200	Wadmedani	Urea	Madian
491	1.2-222	50220	Wadmedani	Urea	Madian
492	1.2-222	50360	Wadmedani	Urea	Madian
493	1.2-222	50380	Wadmedani	Urea	Madian
494	1.2-222	50420	Wadmedani	Urea	Madian
495	1.2-222	50680	Wadmedani	Urea	Madian
496	1.2-222	50820	Wadmedani	Urea	Madian

497	1.2-222	50840	Wadmedani	Urea	Madian
498	1.2-222	51160	Wadmedani	Urea	Madian
499	1.2-222	51460	Wadmedani	Urea	Madian
500	1.2-222	51660	Wadmedani	Urea	Madian
501	1.22-222	52200	Wadmedani	Urea	Madian
502	1.22-222	54120	Wadmedani	Urea	Madian
503	1.22-222	54520	Wadmedani	Urea	Madian
504	1.22-222	54900	Wadmedani	Urea	Madian
505	1.22-222	54920	Wadmedani	Urea	Madian
506	1.22-222	55160	Wadmedani	Urea	Madian
507	1.22-222	55420	Wadmedani	Urea	Madian
508	1.22-222	55560	Wadmedani	Urea	Madian
509	1.22-222	56640	Wadmedani	Urea	Madian
510	1.22-222	57220	Wadmedani	Urea	Madian
511	1.22-222	57220	Wadmedani	Urea	Madian
512	1.22-222	57320	Wadmedani	Urea	Madian
513	1.22-222	57630	Wadmedani	Urea	Madian
514	1.2-222	51180	Wadmedani	Wheat	Madian
515	1.22-22	48040	Rabak	Urea	Madian
516	1.2-222	49640	Khartoum	Foods	Mahgoob
517	1.22-222	54620	Gedarif	Cement	Maisara
518	1.22-222+22.22	91420	Gedarif	Cement	Maisara
519	1.22-222+22.22	91460	Gedarif	Cement	Maisara
520	1.2-222	50480	Khartoum	Cement	Maisara
521	1.22-222	54400	Khartoum	Cement	Maisara
522	1.22-222	55400	Khartoum	Cement	Maisara
523	1.22-222	55680	Khartoum	Cement	Maisara
524	1.22-222+22.22	91260	Khartoum	Cement	Maisara
525	1.22-222+22.22	91380	Khartoum	Cement	Maisara
526	1.22-222+22.22	92420	Khartoum	Cement	Maisara
527	1.22-222+22.22	92800	Khartoum	Cement	Maisara
528	1.22-222+2.222	92000	Khartoum	Cement	Maisara
529	1.22-222+2.222	93060	Khartoum	Cement	Maisara
530	1.22-222+2.222	94180	Khartoum	Cement	Maisara
531	1.22-222+2.222	95060	Khartoum	Cement	Maisara
532	1.22-222+22.222	91340	Khartoum	Cement	Maisara
533	1.22-222	55720	Wadmedani	Cement	Maisara
534	1.22-222	56040	Wadmedani	Cement	Maisara
535	1.22-222	56540	Wadmedani	Cement	Maisara
536	1.22-222+22.22	89380	Wadmedani	Cement	Maisara
537	1.22-222+22.22	92820	Wadmedani	Cement	Maisara
538	1.22-222+22.22	93040	Wadmedani	Cement	Maisara
539	1.22-222+22.22	90140	Sennar	Cement	Maisara
540	1.2-222	50520	Khartoum	Cement	Malak
541	1.2-222	51360	Khartoum	Cement	Malak
542	11.21+2.2	59760	Khartoum	Cons. Mat.	Malak
543	11.21+2.2	62000	Khartoum	Steel	Malak
544	1.2-22	45100	Khartoum	Container	Mashail
545	1.2-222	49500	Khartoum	Salt	Mashail
546	1.2-22	31380	Khartoum	Steel	Mashail

547	1.2-222	31500	Khartoum	Container	Mergab
548	1.2-222	48580	Khartoum	Urea	Mergab
549	1.2-222	50680	Khartoum	Urea	Mergab
550	1.2-22	29900	Khartoum	Cons. Mat.	Mesr Momina
551	1.2-222	50620	Kassala	Wheat	Mustafa Amin
552	1.2-222	52540	Kassala	Wheat	Mustafa Amin
553	1.2-222	50820	Khartoum	Sugar	Mustafa Amin
554	1.2-222	50920	Khartoum	Sugar	Mustafa Amin
555	1.2-222	50940	Khartoum	Sugar	Mustafa Amin
556	1.2-222	50960	Khartoum	Sugar	Mustafa Amin
557	1.2-222	51120	Khartoum	Sugar	Mustafa Amin
558	1.2-222	51180	Khartoum	Sugar	Mustafa Amin
559	1.2-222	51200	Khartoum	Sugar	Mustafa Amin
560	1.2-222	51260	Khartoum	Sugar	Mustafa Amin
561	1.2-222	51260	Khartoum	Sugar	Mustafa Amin
562	1.2-222	51320	Khartoum	Sugar	Mustafa Amin
563	1.2-222	51520	Khartoum	Sugar	Mustafa Amin
564	1.2-222	50420	Wadmedani	Wheat	Mustafa Amin
565	1.22-222	31600	Dalang	Steel	Nawras
566	1.22-222	38760	Dalang	Steel	Nawras
567	1.22-22+22.22	46200	Dalang	Steel	Nawras
568	1.22-22+22.22	53220	Dalang	Steel	Nawras
569	1.22-22+22.22	49980	El Obied	Container	Nawras
570	1.22-22+22.22	42840	El Obied	Steel	Nawras
571	1.22-22+22.22	47450	El Obied	Steel	Nawras
572	1.22-22+22.22	62480	Khartoum	Container	Nawras
573	1.22-222	79800	Khartoum	Furness	Nebal
574	11.21+2.2	70860	Khartoum	Furness	Nebal
575	1.2-22	40900	Wadmedani	Salt	Nimir
576	1.2-222	46920	Khartoum	Adas	Nipton
577	1.2-222	48020	Khartoum	Adas	Nipton
578	1.2-222	49160	Rabak	Urea	Nipton
579	1.2-222	49420	Rabak	Urea	Nipton
580	1.22+2.2	37920	Khartoum	Container	Noor
581	1.22+2.2	54420	Khartoum	Esterean	Noor
582	1.2+2.2	44540	Khartoum	Foods	Noor
583	1.22+2.2	52980	Khartoum	Foods	Noor
584	1.2-22	35820	Khartoum	Steel	Noor
585	1.2+2.2	35000	Khartoum	Urea	Noor
586	1.2-222	48340	Khartoum	Adas	Pantiu
587	1.22+2.2	45680	Khartoum	Steel	Qash
588	1.22+2.2	47460	Khartoum	Foods	Quraish
589	1.2-222	49680	Khartoum	Cement	Rakb
590	1.2-222	50340	Khartoum	Cement	Rakb
591	1.2-222	50360	Khartoum	Cement	Rakb
592	1.2-222	51620	Khartoum	Cement	Rakb
593	1.2-222	51760	Khartoum	Cement	Rakb
594	1.2-222	51820	Khartoum	Cement	Rakb
595	1.22-222	51820	Khartoum	Cement	Rakb
596	1.22-222	52780	El Obied	Cement	Randi

597	1.22-222	56620	El Obied	Cement	Randi
598	1.22-222	57040	El Obied	Cement	Randi
599	1.22-222	57500	El Obied	Cement	Randi
600	1.22-222	58260	El Obied	Cement	Randi
601	1.22-222	58280	El Obied	Cement	Randi
602	1.22-222	58420	El Obied	Cement	Randi
603	1.22-222	58480	El Obied	Cement	Randi
604	1.22-222	58900	El Obied	Steel	Randi
605	1.22-222	59020	El Obied	Steel	Randi
606	1.22-222	58400	Khartoum	Cement	Randi
607	1.22-222	58420	Khartoum	Cement	Randi
608	1.22-222	58020	Khartoum	Wheat	Randi
609	1.22-222	58100	Wadmedani	Urea	Randi
610	1.22-222	58400	Wadmedani	Urea	Randi
611	1.22-222	58660	Wadmedani	Urea	Randi
612	1.22-222	58660	Wadmedani	Urea	Randi
613	1.22-222	58680	Wadmedani	Urea	Randi
614	1.22-222	73860	Khartoum	Esterean	Rashad
615	1.2-22	39340	Khartoum	Foods	Sabihat
616	1.2-22	37900	Khartoum	Wheat	Sabihat
617	1.2-22	38620	Khartoum	Wheat	Sabihat
618	1.2-22	38860	Khartoum	Wheat	Sabihat
619	1.2-22	38920	Khartoum	Wheat	Sabihat
620	1.2-22	38920	Khartoum	Wheat	Sabihat
621	1.2-22	38920	Khartoum	Wheat	Sabihat
622	1.2-22	39040	Khartoum	Wheat	Sabihat
623	1.2-22	39240	Khartoum	Wheat	Sabihat
624	1.2-22	39320	Khartoum	Wheat	Sabihat
625	1.22+2.2	84920	Khartoum	Wheat	Sabihat
626	11.21+2.21	64640	Khartoum	Wheat	Sabihat
627	11.21+2.21	65560	Khartoum	Wheat	Sabihat
628	1.22-22+22.22	80080	Khartoum	Wheat	Sabihat
629	1.22-22+22.22	82920	Khartoum	Wheat	Sabihat
630	1.22-22+22.22	83040	Khartoum	Wheat	Sabihat
631	1.22-22+22.22	83400	Khartoum	Wheat	Sabihat
632	1.22-22+22.22	83880	Khartoum	Wheat	Sabihat
633	1.22-22+22.22	84000	Khartoum	Wheat	Sabihat
634	1.22-22+22.22	84140	Khartoum	Wheat	Sabihat
635	1.22-22+22.22	84380	Khartoum	Wheat	Sabihat
636	1.22-22+22.22	84620	Khartoum	Wheat	Sabihat
637	1.22-22+22.22	84700	Khartoum	Wheat	Sabihat
638	1.22-22+22.22	84880	Khartoum	Wheat	Sabihat
639	1.22-22+22.22	84920	Khartoum	Wheat	Sabihat
640	1.22-22+22.22	84920	Khartoum	Wheat	Sabihat
641	1.22-22+22.22	85120	Khartoum	Wheat	Sabihat
642	1.22-22+22.22	85140	Khartoum	Wheat	Sabihat
643	1.22-22+22.22	85200	Khartoum	Wheat	Sabihat
644	1.22-22+22.22	85280	Khartoum	Wheat	Sabihat
645	1.22-222	54610	Khartoum	Steel	Sabkin
646	1.2-222	48740	Khartoum	Cement	Sahar

647	1.22-22+2.2	63760	Khartoum	Cement	Sahar
648	1.22-22+2.2	65180	Khartoum	Cement	Sahar
649	1.2-222	49960	Khartoum	Steel	Saihoon
650	1.2-22	41060	Khartoum	Steel	Salam
651	1.2-22	40520	Khartoum	Steel	Salam
652	1.2-22	40540	Khartoum	Steel	Salam
653	1.2-22	40500	Khartoum	Steel	Salam
654	1.22-22+22.22	83600	Gedarif	Urea	Salka
655	1.2-22	43260	Haiya	Gasoline	Salka
656	1.22-222	57300	Halfa	Urea	Salka
657	1.22-22+22.22	82000	Halfa	Urea	Salka
658	1.22-22+22.22	83260	Halfa	Urea	Salka
659	1.22-22+22.22	83300	Halfa	Urea	Salka
660	1.22-22+22.22	83060	Kassala	Wheat	Salka
661	1.2-22	39760	Khartoum	Cement	Salka
662	1.22-22	42560	Khartoum	Container	Salka
663	1.22-22	42100	Khartoum	Salt	Salka
664	1.22-22+22.22	63080	Khartoum	Steel	Salka
665	1.2-22	40500	Wadmedani	Urea	Salka
666	1.2-22	41020	Wadmedani	Urea	Salka
667	1.2-22	41140	Wadmedani	Urea	Salka
668	1.2-22	41240	Wadmedani	Urea	Salka
669	1.2-22	41320	Wadmedani	Urea	Salka
670	1.2-22	42100	Wadmedani	Urea	Salka
671	1.22-22	46900	Wadmedani	Urea	Salka
672	1.2-222	49560	Wadmedani	Urea	Salka
673	1.2-222	50020	Wadmedani	Urea	Salka
674	1.2-222	50180	Wadmedani	Urea	Salka
675	11.21+2.2	59840	Wadmedani	Urea	Salka
676	1.22-22+22.22	83700	Wadmedani	Urea	Salka
677	1.2-22	40860	Sennar	Urea	Salka
678	1.22-22	47180	Sennar	Urea	Salka
679	1.22-22	47320	Sennar	Urea	Salka
680	1.22-22	47620	Sennar	Urea	Salka
681	1.2-222	48200	Sennar	Urea	Salka
682	1.2-222	50420	Sennar	Urea	Salka
683	1.2-222	50560	Sennar	Urea	Salka
684	1.22-222	56320	Sennar	Urea	Salka
685	1.22-22+22.22	83440	Sennar	Urea	Salka
686	1.22-22+22.22	85480	Sennar	Urea	Salka
687	1.2-222	50260	Khartoum	Salt	Sawakin
688	1.2-222	56880	Gedarif	Furness	Semsem
689	1.22-222	51920	Khartoum	Container	Senoosi
690	1.22+2.2	47500	Wadmedani	Wheat	Shemal
691	1.2-222	38060	Khartoum	Container	Skrap
692	1.22-222	72420	Khartoum	Furness	Sultan
693	1.22-22+22.22	84420	Khartoum	Cement	Syga
694	1.22-222+22.22	92500	Khartoum	Salt	Syga
695	1.22-22+22.22	71000	Khartoum	Steel	Syga
696	1.22-222+22.22	92560	Khartoum	Sugar	Syga

697	1.22-22+22.22	83440	Khartoum	Wheat	Syga
698	1.22-22+22.22	83680	Khartoum	Wheat	Syga
699	1.22-22+22.22	84380	Khartoum	Wheat	Syga
700	1.22-22+22.22	84400	Khartoum	Wheat	Syga
701	1.22-22+22.22	84700	Khartoum	Wheat	Syga
702	1.22-22+22.22	84880	Khartoum	Wheat	Syga
703	1.22-22+22.22	84920	Khartoum	Wheat	Syga
704	1.22-22+22.22	85260	Khartoum	Wheat	Syga
705	1.22-22+22.22	85540	Khartoum	Wheat	Syga
706	1.22-22+22.22	85550	Khartoum	Wheat	Syga
707	1.22-22+22.22	86360	Khartoum	Wheat	Syga
708	1.22-222+22.22	91640	Khartoum	Wheat	Syga
709	1.22-222+22.22	92020	Khartoum	Wheat	Syga
710	1.22-222+22.22	92300	Khartoum	Wheat	Syga
711	1.22-222+22.22	92640	Khartoum	Wheat	Syga
712	1.22-222+22.22	92660	Khartoum	Wheat	Syga
713	1.22-222+22.22	92720	Khartoum	Wheat	Syga
714	1.22-222+22.22	92720	Khartoum	Wheat	Syga
715	1.22-222+22.22	92760	Khartoum	Wheat	Syga
716	1.22-222+22.22	92760	Khartoum	Wheat	Syga
717	1.22-222+22.22	92780	Khartoum	Wheat	Syga
718	1.22-222+22.22	92820	Khartoum	Wheat	Syga
719	1.22-222+22.22	92940	Khartoum	Wheat	Syga
720	1.22-222+22.22	92980	Khartoum	Wheat	Syga
721	1.22-222+22.22	93120	Khartoum	Wheat	Syga
722	1.22-222+22.22	93160	Khartoum	Wheat	Syga
723	1.22-222+22.22	93500	Khartoum	Wheat	Syga
724	11.21+2.2	58960	Khartoum	Cement	Tabrizi
725	1.22-222+22.22	93740	Khartoum	Cement	Tabrizi
726	1.22-222+2.222	94220	Khartoum	Cement	Tabrizi
727	1.22-222+2.222	96140	Khartoum	Cement	Tabrizi
728	1.22-222+2.222	96280	Khartoum	Cement	Tabrizi
729	1.22-222+22.222	102080	Khartoum	Cement	Tabrizi
730	1.22+2.2	55400	Khartoum	Cons. Mat.	Tabrizi
731	1.2-22	64880	Khartoum	Furness	Tabrizi
732	1.22+2.2	52260	Khartoum	Urea	Tabrizi
733	1.22+2.2	71340	Wadmedani	Furness	Tabrizi
734	1.22-222	76360	Rabak	Furness	Tabrizi
735	1.2-22	26600	Khartoum	Steel	Tasabeeh
736	1.22-222	74340	Khartoum	Furness	Tegray
737	1.2-22	59240	Khartoum	Furness	Tektikan
738	1.2-22	38780	Khartoum	Container	Thaqeef
739	1.2-22	67620	Khartoum	Esterean	Tiryayq
740	1.22-22	65420	Khartoum	Furness	Transfirst
741	1.22+2.2	50460	Khartoum	Esterean	Transfirst
742	1.22+2.2	57180	Khartoum	Esterean	Transfirst
743	11.21+2.2	68620	Khartoum	Esterean	Transfirst
744	1.2-22	30680	Khartoum	Container	Tranzobia
745	1.2-222	50000	Khartoum	Container	Tranzobia
746	1.2-222	46900	Wadmedani	Esterean	Urdnia



747	1.2-222	60880	Wadmedani	Esterean	Urdnia
748	1.2-222	61580	Wadmedani	Esterean	Urdnia
749	1.2-222	58340	Wadmedani	Gasoline	Urdnia
750	1.2-222	49760	Khartoum	Cement	Wasil
751	1.22-222	57620	Wadmedani	Cement	Wasil
752	1.22-222	55820	Sennar	Cement	Wasil
753	1.22-222	56120	Sennar	Cement	Wasil
754	1.22-222	56160	Sennar	Cement	Wasil
755	1.22-222	56980	Sennar	Cement	Wasil
756	1.22-222	57160	Sennar	Cement	Wasil
757	1.22-22+22.22	85000	Khartoum	Rice	Weta
758	1.22-22+22.22	84980	Khartoum	Urea	Weta
759	1.22-22+22.22	84360	Khartoum	Wheat	Weta
760	1.22-22+22.22	84460	Khartoum	Wheat	Weta
761	1.22-22+22.22	84460	Khartoum	Wheat	Weta
762	1.22-22+22.22	84480	Khartoum	Wheat	Weta
763	1.22-22+22.22	84500	Khartoum	Wheat	Weta
764	1.22-22+22.22	84620	Khartoum	Wheat	Weta
765	1.22-22+22.22	84680	Khartoum	Wheat	Weta
766	1.22-22+22.22	84720	Khartoum	Wheat	Weta
767	1.22-22+22.22	84780	Khartoum	Wheat	Weta
768	1.22-22+22.22	84800	Khartoum	Wheat	Weta
769	1.22-22+22.22	84800	Khartoum	Wheat	Weta
770	1.22-22+22.22	84860	Khartoum	Wheat	Weta
771	1.22-22+22.22	84880	Khartoum	Wheat	Weta
772	1.22-22+22.22	84940	Khartoum	Wheat	Weta
773	1.22-22+22.22	84940	Khartoum	Wheat	Weta
774	1.22-22+22.22	84980	Khartoum	Wheat	Weta
775	1.22-22+22.22	85000	Khartoum	Wheat	Weta
776	1.22-22+22.22	85000	Khartoum	Wheat	Weta
777	1.22-22+22.22	85000	Khartoum	Wheat	Weta
778	1.22-22+22.22	85020	Khartoum	Wheat	Weta
779	1.22-22+22.22	85020	Khartoum	Wheat	Weta
780	1.22-22+22.22	85140	Khartoum	Wheat	Weta
781	1.22-22+22.22	85150	Khartoum	Wheat	Weta
782	1.22-22+22.22	85220	Khartoum	Wheat	Weta
783	1.22-22+22.22	85260	Khartoum	Wheat	Weta
784	1.22-22+22.22	85320	Khartoum	Wheat	Weta
785	1.22-22+22.22	85340	Khartoum	Wheat	Weta
786	1.22-22+22.22	85360	Khartoum	Wheat	Weta
787	1.22-22+22.22	85380	Khartoum	Wheat	Weta
788	1.22-22+22.22	85420	Khartoum	Wheat	Weta
789	1.22-22+22.22	85420	Khartoum	Wheat	Weta
790	1.22-22+22.22	85420	Khartoum	Wheat	Weta
791	1.22-22+22.22	85480	Khartoum	Wheat	Weta
792	1.22-22+22.22	85480	Khartoum	Wheat	Weta
793	1.22-22+22.22	85500	Khartoum	Wheat	Weta
794	1.22-22+22.22	85500	Khartoum	Wheat	Weta
795	1.22-22+22.22	85600	Khartoum	Wheat	Weta
796	1.22-22+22.22	85650	Khartoum	Wheat	Weta

797	1.22-222+2.222	85780	Khartoum	Wheat	Weta
798	1.22-222	57100	Khartoum	Cement	Yarmook
799	1.22-222	53140	Khartoum	Steel	Yarmook
800	1.22-222	54120	Khartoum	Steel	Yarmook
801	1.2+2.2	43900	Gedarif	Cement	Yazeed
802	1.2+2.2	45120	Halfa	Steel	Yazeed
803	1.22-222+22.22	91720	Khartoum	Cons. Mat.	Ys
804	1.22-22+22.22	84400	Khartoum	Container	Ys
805	1.2-22	53300	Khartoum	Container	Zetab

Appendix(2): Load on Each Axle from Static Weigh Bridge at Suakin

No.	Axle	Load on Each Axle (Tons)											GVW (Tone)
	Configuration	1	2	3	4	5	6	7	8	9	10	11	
1	1.2 - 22	6.0	11.5	10.9	10.9								39.2
2	1.2 - 22	6.1	14.3	10.2	10.2								40.7
3	1.2 - 22	6.1	14.3	10.1	10.1								40.6
4	1.2 - 22	6.5	15.3	9.6	9.6								41.0
5	1.2 - 22	6.5	15.3	9.7	9.7								41.1
6	1.2 - 22	6.3	12.0	11.5	11.5								41.2
7	1.2 - 22	6.4	16.7	9.1	9.1								41.3
8	1.2 - 22	6.1	14.7	10.5	10.5								41.7
9	1.2 - 22	6.4	17.7	8.8	8.8								41.8
10	1.2 - 22	6.5	12.9	11.4	11.4								42.2
11	1.2 - 22	6.5	14.4	11.2	11.2								43.3
12	1.2 - 22	7.6	21.1	15.3	15.3								59.2
13	1.2 - 22	7.9	21.2	16.2	16.2								61.6
14	1.2 - 22	7.9	21.2	16.2	16.2								61.6
15	1.2 - 22	8.0	23.6	18.0	18.0								67.6
16	1.2 - 22	7.8	23.6	18.4	18.4								68.2
17	1.2 - 22	8.0	23.7	18.8	18.8								69.3
18	1.2 - 111	7.7	15.9	8.8	8.8	8.8							50.1
19	1.2 - 111	7.0	14.4	10.2	10.2	10.2							52.1
20	1.22-222+22.22	5.8	9.5	9.5	10.5	10.5	10.5	8.5	8.5	9.8	9.8		92.8
21	1.22-222+22.22	5.6	9.6	9.6	10.4	10.4	10.4	8.6	8.6	9.2	9.2		91.4
22	1.22-222+22.22	5.7	9.5	9.5	10.5	10.5	10.5	8.6	8.6	9.8	9.8		92.8
23	1.22-222+22.22	5.9	9.6	9.6	10.5	10.5	10.5	8.7	8.7	9.7	9.7		93.1
24	1.22-222+22.22	5.9	9.6	9.6	10.5	10.5	10.5	8.7	8.7	9.7	9.7		93.5
25	1.22-222+22.22	5.9	9.5	9.5	10.5	10.5	10.5	8.5	8.5	9.8	9.8		93.0
26	1.22 - 222	6.9	12.7	12.7	14.3	14.3	14.3						75.2

27	1.22 - 222	5.9	8.0	8.0	9.2	9.2	9.2							49.6
28	1.22 - 222	5.4	8.6	8.6	7.8	7.8	7.8							46.1
29	1.22 - 222	5.8	6.7	6.7	9.5	9.5	9.5							47.8
30	1.22 - 222	5.3	11.8	11.8	11.9	11.9	11.9							64.5
31	1.22 - 222	6.4	8.9	8.9	10.3	10.3	10.3							55.1
32	1.22 - 222	6.6	9.9	9.9	10.4	10.4	10.4							57.5
33	1.22 - 222	6.6	9.8	9.8	10.5	10.5	10.5							57.6
34	1.22 - 222	6.6	9.4	9.4	10.3	10.3	10.3							56.2
35	1.22 - 222	7.4	13.0	13.0	14.3	14.3	14.3							76.3
36	1.22 - 222	7.1	12.3	12.3	14.2	14.2	14.2							74.3
37	1.22 - 222	7.0	12.1	12.1	14.2	14.2	14.2							73.8
38	1.22-22+22.22	6.7	9.2	9.2	9.9	9.9	7.9	7.9	12.1	12.1				84.7
39	1.22-22+22.22	6.6	8.7	8.7	11.4	11.4	10.3	10.3	8.9	8.9				85.1
40	1.22-22+22.22	6.5	9.8	9.8	11.2	11.2	9.6	9.6	8.5	8.5				84.8
41	1.22-22+22.22	6.6	9.6	9.6	11.2	11.2	9.6	9.6	8.9	8.9				85.1
42	1.22-22+22.22	6.6	9.5	9.5	11.4	11.4	9.6	9.6	8.3	8.3				84.1
43	1.22-22+22.22	6.5	9.3	9.3	10.0	10.0	8.0	8.0	12.0	12.0				84.9
44	1.22-22+22.22	6.6	9.3	9.3	10.7	10.7	7.9	7.9	11.4	11.4				85.2
45	1.22-22+22.22	6.7	9.7	9.7	11.2	11.2	9.7	9.7	8.6	8.6				84.9
46	1.2 + 2.2	7.7	13.3	9.9	11.3									42.2
47	1.2 + 2.2	7.9	14.0	11.1	11.4									44.4
48	1.2 + 2.2	7.9	14.4	10.9	11.5									44.8
49	1.2 + 2.2	7.6	14.2	10.7	11.3									43.8
50	1.2 + 2.2	7.6	14.3	10.7	11.3									44.0
51	1.2 + 2.2	7.6	14.3	11.4	10.4									43.6
52	1.2 + 2.2	7.9	14.3	11.3	10.0									43.6
53	1.22-222+22.111	7.4	12.4	12.4	7.3	7.3	7.3	9.6	9.6	6.0	6.0	6.0		91.1
54	1.22-222+22.111	7.4	12.4	12.4	7.3	7.3	7.3	9.6	9.6	6.0	6.0	6.0		91.2
55	1.22-222+22.111	6.9	12.5	12.5	7.3	7.3	7.3	9.5	9.5	6.0	6.0	6.0		90.9

56	1.2 - 222	6.1	17.7	9.3	9.3	9.3								51.7
57	1.2 - 222	7.1	14.6	7.8	7.8	7.8								45.1
58	1.2 - 222	6.9	14.9	8.4	8.4	8.4								47.0
59	1.2 - 222	6.2	16.6	9.2	9.2	9.2								50.4
60	1.2 - 222	6.9	19.1	10.2	10.2	10.2								56.7
61	1.2 - 222	7.0	20.8	11.6	11.6	11.6								62.5
62	1.2 - 222	7.0	16.4	9.2	9.2	9.2								51.1
63	1.2 - 222	7.1	21.0	12.5	12.5	12.5								65.7
64	1.22 - 22	5.9	12.0	12.0	20.9	20.9								71.6
65	1.22 - 22	6.1	6.8	6.8	13.8	13.8								47.2
66	1.22 - 22	6.1	7.3	7.3	14.1	14.1								48.9
67	1.22 - 22	6.0	6.8	6.8	13.8	13.8								47.3
68	1.22 - 22	6.0	6.5	6.5	14.0	14.0								47.0
69	1.22 - 22	6.1	7.6	7.6	16.0	16.0								53.2
70	11.21 + 2.2	3.9	3.9	9.8	9.8	8.7	15.1							51.2
71	11.21 + 2.2	4.0	4.0	11.2	11.2	13.4	15.7							59.5
72	11.21 + 2.2	4.2	4.2	10.5	10.5	14.7	12.3							56.4
73	11.21 + 2.2	4.3	4.3	12.6	12.6	17.8	17.0							68.6
74	11.21 + 2.2	4.0	4.0	11.1	11.1	13.6	15.9							59.8
75	11.21 + 2.2	4.0	4.0	11.2	11.2	16.0	13.6							60.0
76	11.21 + 2.2	4.4	4.4	13.0	13.0	18.2	18.0							70.9
77	11.21 + 2.21	4.2	4.2	9.8	9.8	11.0	8.0	8.0						54.9
78	11.21 + 2.21	4.3	4.3	10.5	10.5	12.1	8.7	8.7						59.2
79	11.21 + 2.21	4.1	4.1	11.5	11.5	16.0	8.7	8.7						64.6
80	11.21 + 2.21	4.1	4.1	9.7	9.7	11.6	7.0	7.0						53.0
81	11.21 + 2.21	4.2	4.2	10.6	10.6	13.1	8.8	8.8						60.1
82	11.21 + 2.21	4.2	4.2	9.9	9.9	10.1	7.9	7.9						54.0
83	1.22-222+22.222	6.0	9.9	9.9	10.1	10.1	10.1	8.3	8.3	9.9	9.9	9.9		102.4
84	1.22-222+22.222	6.1	10.0	10.0	10.0	10.0	10.0	8.2	8.2	9.8	9.8	9.8		102.1

85	1.22-222+22.222	6.0	9.9	9.9	10.1	10.1	10.1	8.4	8.4	10.0	10.0	10.0	102.6
86	1.22-222+22.222	6.2	10.0	10.0	10.0	10.0	10.0	8.3	8.3	10.0	10.0	10.0	102.8
87	1.22-222+22.222	6.1	9.8	9.8	10.1	10.1	10.1	8.3	8.3	10.0	10.0	10.0	102.5
88	1.22-222+22.222	6.0	9.9	9.9	10.1	10.1	10.1	8.4	8.4	9.9	9.9	9.9	102.3
89	1.22 + 2.2	8.0	9.8	9.8	9.4	10.8							47.7
90	1.22 + 2.2	7.7	9.6	9.6	8.1	9.3							44.3
91	1.22 + 2.2	7.5	9.9	9.9	11.5	11.7							50.5
92	1.22 + 2.2	7.9	9.8	9.8	9.4	9.9							46.7
93	1.22 + 2.2	7.6	9.9	9.9	11.2	11.7							50.3
94	1.22 + 2.2	8.4	10.3	10.3	21.0	21.3							71.3
95	1.21 + 2.2	7.8	9.9	9.9	10.0	13.5							51.1
96	11.21 + 2.22	4.3	4.3	9.7	9.7	10.5	8.5	8.5					55.4
97	1.22	6.7	10.6	10.6									27.9
98	1.22	8.8	12.7	12.7									34.1

Appendix (3): The Data Collected From Al Muntalaq Transportation Co.			
No.	Route	Commodity	GVW
1	Portsudan-Khartoum	Adas	59.00
2	Portsudan-Khartoum	Adas	59.20
3	Portsudan-Khartoum	Adas	59.30
4	Portsudan-Khartoum	Adas	59.35
5	Portsudan-Khartoum	Adas	59.40
6	Gaili-Gedarif	Benzene	50.00
7	Gaili-WadMedani	Benzene	50.00
8	Gaili- WadMedani	Benzene	50.20
9	Gaili- WadMedani	Benzene	50.30
10	Gaili- WadMedani	Benzene	50.35
11	Gaili- WadMedani	Benzene	50.50
12	Gaili- WadMedani	Benzene	50.50
13	Gaili-Sennar	Benzene	50.50
14	Gaili- WadMedani	Benzene	50.60
15	Gaili- WadMedani	Benzene	50.60
16	Gaili- WadMedani	Benzene	50.60
17	Gaili- WadMedani	Benzene	50.70
18	Gaili- WadMedani	Benzene	51.00
19	Gaili- WadMedani	Benzene	51.00
20	Gaili- WadMedani	Benzene	51.00
21	Gaili- WadMedani	Benzene	51.00
22	Gaili- WadMedani	Benzene	51.10
23	Gaili- WadMedani	Benzene	51.30
24	Gaili- WadMedani	Benzene	51.30
25	Gaili- WadMedani	Benzene	51.50
26	Gaili- WadMedani	Benzene	52.00
27	Gaili- WadMedani	Benzene	52.00
28	Gaili- WadMedani	Benzene	52.00
29	Gaili- WadMedani	Benzene	52.00
30	Gaili-Portsudan	Butane Gas 76 Obs.	42.00
31	Portsudan-Khartoum	Cement	59.00
32	Portsudan-Khartoum	Cement	59.00
33	Portsudan-Khartoum	Cement	59.00
34	Portsudan-Khartoum	Cement	59.10
35	Portsudan-Khartoum	Cement	59.20
36	Portsudan-Khartoum	Cement	59.30
37	Portsudan-Khartoum	Cement	59.50
38	Portsudan-Khartoum	Cement	60.00
39	Portsudan-Khartoum	Cement	60.00
40	Portsudan-Khartoum	Cement	61.50
41	Portsudan-Khartoum	Cement	62.30
42	Portsudan-Khartoum	Cement	64.00
43	Khartoum-Rabak	Crushed Rock	64.00
44	Khartoum-Rabak	Crushed Rock	64.80
45	Khartoum-Rabak	Crushed Rock	64.80
46	Khartoum-Rabak	Crushed Rock	65.00
47	Khartoum-Rabak	Crushed Rock	65.00

48	Khartoum-Rabak	Crushed Rock	65.40
49	Khartoum-Rabak	Crushed Rock	65.50
50	Khartoum-Rabak	Crushed Rock	65.50
51	Khartoum-Rabak	Crushed Rock	65.50
52	Khartoum-Rabak	Crushed Rock	65.70
53	Khartoum-Rabak	Crushed Rock	66.00
54	Khartoum-Rabak	Crushed Rock	66.00
55	Khartoum-Rabak	Crushed Rock	66.25
56	Khartoum-Rabak	Crushed Rock	66.50
57	Obied-Khartoum	Diesel	61.20
58	Obied-Khartoum	Diesel	61.35
59	Obied-Khartoum	Diesel	61.90
60	Obied-Khartoum	Diesel	62.25
61	Obied-Khartoum	Diesel	62.50
62	Obied-Khartoum	Diesel	63.00
63	Portsudan-Khartoum	Esterean	59.00
64	Portsudan-Khartoum	Esterean	59.35
65	Portsudan-Khartoum	Esterean	59.40
66	Portsudan-Khartoum	Esterean	59.50
67	Portsudan-Khartoum	Esterean	59.70
68	Portsudan-Khartoum	Esterean	59.80
69	Portsudan-Khartoum	Esterean	60.00
70	Portsudan-Khartoum	Esterean	60.20
71	Obied-Khartoum	Furness	60.25
72	Obied-Khartoum	Furness	60.35
73	Obied-Khartoum	Furness	60.50
74	Obied-Khartoum	Furness	60.55
75	Obied-Khartoum	Furness	60.60
76	Obied-Khartoum	Furness	60.70
77	Obied-Khartoum	Furness	60.70
78	Obied-Khartoum	Furness	60.80
79	Obied-Khartoum	Furness	60.90
80	Obied-Khartoum	Furness	61.00
81	Obied-Khartoum	Furness	61.00
82	Obied-Khartoum	Furness	61.26
83	Obied-Khartoum	Furness	61.30
84	Obied-Khartoum	Furness	61.30
85	Obied-Khartoum	Furness	61.35
86	Obied-Khartoum	Furness	61.40
87	Obied-Khartoum	Furness	61.85
88	Obied-Khartoum	Furness	62.00
89	Gaili-Gedarif	Gasoline	56.00
90	Gaili-WadMedani	Gasoline	56.00
91	Gaili-WadMedani	Gasoline	56.00
92	Gaili-Sennar	Gasoline	56.00
93	Gaili-Halfa	Gasoline	56.25
94	Gaili-WadMedani	Gasoline	56.25
95	Gaili-Gedarif	Gasoline	56.30
96	Gaili-WadMedani	Gasoline	56.40



97	Gaili-Gedarif	Gasoline	56.50
98	Gaili-Gedarif	Gasoline	56.50
99	Gaili-Gedarif	Gasoline	56.50
100	Gaili-Halfa	Gasoline	56.50
101	Gaili-Halfa	Gasoline	56.50
102	Gaili-WadMedani	Gasoline	56.50
103	Gaili-Rabak	Gasoline	56.50
104	Gaili-Rabak	Gasoline	56.50
105	Gaili-Rabak	Gasoline	56.50
106	Gaili-Rabak	Gasoline	56.50
107	Gaili-Gedarif	Gasoline	57.00
108	Gaili-Gedarif	Gasoline	57.00
109	Gaili-WadMedani	Gasoline	57.00
110	Gaili-WadMedani	Gasoline	57.00
111	Gaili-WadMedani	Gasoline	57.20
112	Gaili-Gedarif	Gasoline	57.25
113	Gaili-Gedarif	Gasoline	57.25
114	Gaili-Gedarif	Gasoline	57.50
115	Gaili-Portsudan	Gasoline	57.50
116	Gaili-Portsudan	Gasoline	57.50
117	Gaili-Portsudan	Gasoline	57.50
118	Gaili-Portsudan	Gasoline	57.50
119	Gaili-Portsudan	Gasoline	57.50
120	Gaili-Portsudan	Gasoline	63.00
121	Gaili-Portsudan	Gasoline	63.00
122	Gaili-Portsudan	Gasoline	63.00
123	Gaili-Portsudan	Gasoline	63.00
124	Gaili-Portsudan	Gasoline	63.00
125	Gaili-Portsudan	Gasoline	63.00
126	Gaili-Portsudan	Gasoline	63.00
127	Gaili-Portsudan	Gasoline	63.00
128	Gaili-Portsudan	Gasoline	63.00
129	Gaili-Portsudan	Gasoline	63.00
130	Portsudan-Khartoum	Glass	59.00
131	Portsudan-Khartoum	Glass	60.00
132	Portsudan-Khartoum	Glass	60.00
133	Portsudan-Khartoum	Glass	61.00
134	Portsudan-Khartoum	Gypsum	54.00
135	Portsudan-Khartoum	Gypsum	54.00
136	Portsudan-Khartoum	Gypsum	54.00
137	Portsudan-Khartoum	Masonite	59.00
138	Portsudan-Khartoum	Masonite	59.00
139	Portsudan-Khartoum	Masonite	59.00
140	Kenana-Portsudan	Mollas	59.00
141	Portsudan-Khartoum	plastic grains	57.00
142	Portsudan-Khartoum	plastic grains	57.50
143	Portsudan-Khartoum	plastic grains	58.00
144	Portsudan-Khartoum	plastic grains	58.50
145	Portsudan-Khartoum	plastic grains	59.00

146	Portsudan-Khartoum	plastic grains	59.00
147	Portsudan-Khartoum	plastic grains	59.00
148	Portsudan-Khartoum	plastic grains	61.00
149	Portsudan-Khartoum	plastic grains	62.50
150	Halfa-Khartoum	Seeds	61.50
151	Halfa-Khartoum	Seeds	61.50
152	Halfa-Khartoum	Seeds	62.00
153	Halfa-Khartoum	Seeds	62.00
154	Halfa-Khartoum	Seeds	62.50
155	Halfa-Khartoum	Seeds	62.50
156	Portsudan-Khartoum	Steel	60.00
157	Portsudan-Khartoum	Steel	60.63
158	Portsudan-Khartoum	Steel	62.90
159	Portsudan-Khartoum	Steel	63.20
160	Portsudan-Khartoum	Steel	63.62
161	Portsudan-Khartoum	Steel	63.90
162	Portsudan-Khartoum	Steel	64.00
163	Portsudan-Khartoum	Steel	64.30
164	Portsudan-Khartoum	Steel	64.60
165	Rabak-Khartoum	Sugar	59.00
166	Rabak-Khartoum	Sugar	59.00
167	Rabak-Khartoum	Sugar	59.00
168	Rabak-Khartoum	Sugar	59.00
169	Rabak-Khartoum	Sugar	59.00
170	Rabak-Khartoum	Sugar	59.00
171	Rabak-Khartoum	Sugar	59.00
172	Rabak-Khartoum	Sugar	59.00
173	Rabak-Khartoum	Sugar	59.00
174	Rabak-Khartoum	Sugar	59.00
175	Rabak-Khartoum	Sugar	59.00
176	Rabak-Khartoum	Sugar	59.00
177	Rabak-Khartoum	Sugar	59.00
178	Rabak-Khartoum	Sugar	59.00
179	Portsudan-Khartoum	Wheat	61.50
180	Portsudan-Khartoum	Wheat	61.50
181	Portsudan-Khartoum	Wheat	61.50
182	Portsudan-Khartoum	Wheat	61.80
183	Portsudan-Khartoum	Wheat	61.90
184	Portsudan-Khartoum	Wheat	62.00
185	Portsudan-Khartoum	Wheat	62.00
186	Portsudan-Khartoum	Wheat	62.00
187	Portsudan-Khartoum	Wheat	62.00
188	Portsudan-Khartoum	Wheat	62.00
189	Portsudan-Khartoum	Wheat	62.00
190	Portsudan-Khartoum	Wheat	62.00
191	Portsudan-Khartoum	Wheat	62.00
192	Portsudan-Khartoum	Wheat	62.50
193	Portsudan-Khartoum	Wheat	62.50
194	Portsudan-Khartoum	Wheat	62.50

195	Portsudan-Khartoum	Wheat	62.50
196	Portsudan-Khartoum	Wheat	62.50
197	Portsudan-Khartoum	Wheat	62.60
198	Portsudan-Khartoum	Wheat	62.60
199	Portsudan-Khartoum	Wheat	62.70
200	Portsudan-Khartoum	Wheat	62.80
201	Portsudan-Khartoum	Wheat	63.00
202	Portsudan-Khartoum	Wheat	63.00
203	Portsudan-Khartoum	Wheat	63.00
204	Portsudan-Khartoum	Wheat	63.00
205	Portsudan-Khartoum	Wheat	63.50
206	Portsudan-Khartoum	Wheat	63.50
207	Portsudan-Khartoum	Wheat	63.50
208	Portsudan-Khartoum	Wheat	63.50
209	Portsudan-Obied	Wheat	64.00
210	Portsudan-Obied	Wheat	64.00
211	Portsudan-Obied	Wheat	64.00
212	Portsudan-Obied	Wheat	64.00
213	Portsudan-Obied	Wheat	64.00
214	Portsudan-Obied	Wheat	64.00
215	Portsudan-Obied	Wheat	64.00
216	Portsudan-Obied	Wheat	64.00
217	Portsudan-Obied	Wheat	64.00
218	Portsudan-Obied	Wheat	64.00
219	Portsudan-Obied	Wheat	64.00
220	Portsudan-Obied	Wheat	64.00
221	Portsudan-Obied	Wheat	64.00
222	Portsudan-Obied	Wheat	64.00
223	Portsudan-Obied	Wheat	64.00

Appendix ( 4): The Collected Data from Ur for Land Transportation Co.				
No.	Route	Axle Code	Commodity	Net Load
1	Port Sudan - Khartoum	1.2-222	Glucose	35.00
2	Obied - Khartoum	1.2-222	Peanut	40.00
3	Port Sudan - Khartoum	1.2-222	Equipments	12.00
4	Port Sudan - Khartoum	1.2-222	Equipments	12.00
5	Port Sudan - Khartoum	1.2-222	Steel	40.00
6	Port Sudan - Khartoum	1.2-222	Steel	30.00
7	Port Sudan - Obied	1.2-222	Cement	30.00
8	Port Sudan - Obied	1.2-222	Cement	22.00
9	Port Sudan - Obied	1.2-222	Boxes	30.00
10	Damazin - Port Sudan	1.22-22	Sesame	36.00
11	Damazin - Port Sudan	1.22-22	Sesame	36.00
12	Gedarif - Port Sudan	1.22-22	Durra	35.00
13	Gedarif - Port Sudan	1.22-22	Durra	42.00
14	Gedarif - Port Sudan	1.22-22	Durra	34.00
15	Gedarif - Port Sudan	1.22-22	Durra	34.00
16	Gedarif - Port Sudan	1.22-22	Durra	36.00
17	Gedarif - Port Sudan	1.22-22	Durra	36.00
18	Gedarif - Port Sudan	1.22-22	Durra	29.60
19	Gedarif - Port Sudan	1.22-22	Sesame	36.00
20	Gedarif - Port Sudan	1.22-22	Sesame	36.00
21	Gedarif - Port Sudan	1.22-22	Sesame	36.00
22	Gedarif - Port Sudan	1.22-22	Sesame	36.00
23	Gedarif - Port Sudan	1.22-22	Sesame	36.00
24	Gedarif - Port Sudan	1.22-22	Sesame	36.00
25	Gedarif - Port Sudan	1.22-22	Sesame	36.00
26	Gedarif - Port Sudan	1.22-22	Sesame	36.00
27	Gedarif - Port Sudan	1.22-22	Sesame	36.00
28	Gedarif - Port Sudan	1.22-22	Sesame	40.00
29	Gedarif - Port Sudan	1.22-22	Sesame	36.00
30	Gedarif - Port Sudan	1.22-22	Sesame	40.00
31	Gedarif - Port Sudan	1.22-22	Sesame	39.00
32	Gedarif - Port Sudan	1.22-22	Sesame	36.00
33	Gedarif - Port Sudan	1.22-22	Sesame	37.00
34	Gedarif - Port Sudan	1.22-22	Sesame	36.00
35	Gedarif - Port Sudan	1.22-22	Sesame	37.00
36	Gedarif - Port Sudan	1.22-22	Sesame	29.00
37	Gedarif - Port Sudan	1.22-22	Sesame	36.00
38	Gedarif - Port Sudan	1.22-22	Sesame	35.00
39	Gedarif - Port Sudan	1.22-22	Sesame	40.00
40	Gedarif - Port Sudan	1.22-22	Sesame	36.00
41	Gedarif - Port Sudan	1.22-22	Sesame	36.00
42	Gedarif - Port Sudan	1.22-22	Sesame	39.00
43	Gedarif - Port Sudan	1.22-22	Sesame	36.00
44	Gedarif - Port Sudan	1.22-22	Sesame	42.00
45	Gedarif - Port Sudan	1.22-22	Sesame	36.00
46	Gedarif - Port Sudan	1.22-22	Sesame	37.00

47	Gedarif - Port Sudan	1.22-22	Sesame	37.00
48	Gedarif - Port Sudan	1.22-22	Sesame	34.00
49	Gedarif - Port Sudan	1.22-22	Sesame	37.00
50	Gedarif - Port Sudan	1.22-22	Sesame	36.00
51	Gedarif - Port Sudan	1.22-22	Sesame	34.00
52	Gedarif - Port Sudan	1.22-22	Sesame	36.70
53	Gedarif - Port Sudan	1.22-22	Sesame	34.00
54	Gedarif - Port Sudan	1.22-22	Sesame	38.80
55	Gedarif - Port Sudan	1.22-22	Sesame	36.00
56	Gedarif - Port Sudan	1.22-22	Sesame	36.00
57	Gedarif - Port Sudan	1.22-22	Sesame	38.70
58	Gedarif - Port Sudan	1.22-22	Sesame	36.50
59	Gedarif - Port Sudan	1.22-22	Sesame	37.00
60	Gedarif - Port Sudan	1.22-22	Umbaz	40.00
61	Kenana - Port Sudan	1.22-22	Sugar	40.00
62	Kenana - Port Sudan	1.22-22	Sugar	40.00
63	Khartoum - Port Sudan	1.22-22	Seeds	35.00
64	Kosti - Khartoum	1.22-22	Glue	37.50
65	Kosti - Khartoum	1.22-22	Glue	37.50
66	Kosti - Khartoum	1.22-22	Glue	37.50
67	Kosti - Obied	1.22-22	Oil Food	40.00
68	Kosti - Port Sudan	1.22-22	Sesame	36.00
69	Kosti - Port Sudan	1.22-22	Sesame	36.00
70	Kosti - Port Sudan	1.22-22	Sesame	36.00
71	Obied - Khartoum	1.22-22	Peanut	36.00
72	Obied - Kosti	1.22-22	Glue	37.50
73	Obied - Port Sudan	1.22-22	Peanut	32.50
74	Obied - Port Sudan	1.22-22	Peanut	32.50
75	Obied - Port Sudan	1.22-22	Peanut	33.00
76	Obied - Port Sudan	1.22-22	Peanut	32.50
77	Obied - Port Sudan	1.22-22	Peanut	32.50
78	Obied - Port Sudan	1.22-22	Peanut	30.00
79	Obied - Port Sudan	1.22-22	Peanut	32.50
80	Obied - Port Sudan	1.22-22	Umbaz	32.00
81	Obied - Port Sudan	1.22-22	Peanut	32.50
82	Obied - Port Sudan	1.22-22	Peanut	33.00
83	Port Sudan - Damazin	1.22-22	Sacks	34.43
84	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
85	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
86	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
87	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
88	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
89	Port Sudan - Hasahiesa	1.22-22	Urea	40.00
90	Port Sudan - Kassala	1.22-22	Durra	40.00
91	Port Sudan - Kassala	1.22-22	Durra	40.00
92	Port Sudan - Kassala	1.22-22	Durra	40.00
93	Port Sudan - Kassala	1.22-22	Durra	40.00
94	Port Sudan - Kassala	1.22-22	Durra	40.00
95	Port Sudan - Kassala	1.22-22	Oil Food	36.00

96	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
97	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
98	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
99	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
100	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
101	Port Sudan - Khartoum	1.22-22	Engine Oil	35.00
102	Port Sudan - Khartoum	1.22-22	Oil Food	35.00
103	Port Sudan - Khartoum	1.22-22	Glucose	34.00
104	Port Sudan - Khartoum	1.22-22	Glucose	30.00
105	Port Sudan - Khartoum	1.22-22	Glucose	34.00
106	Port Sudan - Khartoum	1.22-22	Plastic	15.00
107	Port Sudan - Khartoum	1.22-22	Plastic Grains	35.00
108	Port Sudan - Khartoum	1.22-22	Plastic Grains	35.00
109	Port Sudan - Khartoum	1.22-22	Plastic Grains	35.00
110	Port Sudan - Khartoum	1.22-22	Plastic Grains	30.00
111	Port Sudan - Khartoum	1.22-22	Plastic Grains	36.00
112	Port Sudan - Khartoum	1.22-22	Plastic Grains	36.00
113	Port Sudan - Khartoum	1.22-22	Plastic Grains	40.00
114	Port Sudan - Khartoum	1.22-22	Plastic Grains	35.00
115	Port Sudan - Khartoum	1.22-22	Steel	34.87
116	Port Sudan - Khartoum	1.22-22	Steel	37.00
117	Port Sudan - Khartoum	1.22-22	Steel	36.00
118	Port Sudan - Khartoum	1.22-22	Steel	40.00
119	Port Sudan - Khartoum	1.22-22	Steel	40.00
120	Port Sudan - Khartoum	1.22-22	Sugar	40.00
121	Port Sudan - Khartoum	1.22-22	Sugar	40.00
122	Port Sudan - Khartoum	1.22-22	Sugar	40.00
123	Port Sudan - Khartoum	1.22-22	Sugar	40.00
124	Port Sudan - Khartoum	1.22-22	Sugar	40.00
125	Port Sudan - Khartoum	1.22-22	Sugar	40.00
126	Port Sudan - Khartoum	1.22-22	Sugar	42.90
127	Port Sudan - Khartoum	1.22-22	Sugar	40.00
128	Port Sudan - Khartoum	1.22-22	Sugar	40.00
129	Port Sudan - Khartoum	1.22-22	Truss	20.00
130	Port Sudan - Khartoum	1.22-22	Urea	40.00
131	Port Sudan - Khartoum	1.22-22	Wheat	40.00
132	Port Sudan - Khartoum	1.22-22	Wheat	40.00
133	Port Sudan - Kosti	1.22-22	Wheat	40.00
134	Port Sudan - Kosti	1.22-22	Sacks	34.43
135	Port Sudan - Kosti	1.22-22	Urea	19.50
136	Port Sudan - WadMedani	1.22-22	Urea	40.00
137	Port Sudan - Obied	1.22-22	Cement	40.00
138	Port Sudan - Obied	1.22-22	Cement	30.00
139	Port Sudan - Obied	1.22-22	Cement	30.00
140	Port Sudan - Obied	1.22-22	Container	40.00
141	Port Sudan - Obied	1.22-22	Container	40.00
142	Port Sudan - Obied	1.22-22	Wheat	40.00
143	Port Sudan - Obied	1.22-22	Wheat	40.00
144	Port Sudan - Obied	1.22-22	Wheat	40.00

145	Port Sudan - Obied	1.22-22	Wheat	40.00
146	Port Sudan - Obied	1.22-22	Wheat	40.00
147	Port Sudan - Obied	1.22-22	Wheat	40.00
148	Port Sudan - Obied	1.22-22	Wheat	40.00
149	Port Sudan - Obied	1.22-22	Steel	40.00
150	Port Sudan - Obied	1.22-22	Steel	40.00
151	Port Sudan - Obied	1.22-22	Steel	40.00
152	Port Sudan - Obied	1.22-22	Steel	40.00
153	Port Sudan - Obied	1.22-22	Umbaz	42.00
154	Port Sudan - Sennar	1.22-22	Urea	40.00
155	Port Sudan - Sennar	1.22-22	Urea	40.00
156	Port Sudan - Sennar	1.22-22	Urea	40.00
157	Port Sudan - Sennar	1.22-22	Urea	40.00
158	Port Sudan - Sennar	1.22-22	Sacks	34.00
159	Damazin - Port Sudan	1.22-22+22.22	Sesame	72.00
160	Damazin - Port Sudan	1.22-22+22.22	Sesame	72.00
161	Gedarif - Kassala	1.22-22+22.22	Durra	72.00
162	Gedarif - Khartoum	1.22-22+22.22	Wheat	70.00
163	Gedarif - Port Sudan	1.22-22+22.22	Durra	72.00
164	Gedarif - Port Sudan	1.22-22+22.22	Durra	72.00
165	Gedarif - Port Sudan	1.22-22+22.22	Durra	68.00
166	Gedarif - Port Sudan	1.22-22+22.22	Durra	63.00
167	Gedarif - Port Sudan	1.22-22+22.22	Durra	63.00
168	Gedarif - Port Sudan	1.22-22+22.22	Durra	63.00
169	Gedarif - Port Sudan	1.22-22+22.22	Sesame	73.00
170	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
171	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
172	Gedarif - Port Sudan	1.22-22+22.22	Sesame	70.00
173	Gedarif - Port Sudan	1.22-22+22.22	Sesame	75.00
174	Gedarif - Port Sudan	1.22-22+22.22	Sesame	66.00
175	Gedarif - Port Sudan	1.22-22+22.22	Sesame	75.00
176	Gedarif - Port Sudan	1.22-22+22.22	Sesame	64.00
177	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
178	Gedarif - Port Sudan	1.22-22+22.22	Sesame	67.00
179	Gedarif - Port Sudan	1.22-22+22.22	Sesame	75.00
180	Gedarif - Port Sudan	1.22-22+22.22	Sesame	67.50
181	Gedarif - Port Sudan	1.22-22+22.22	Sesame	57.50
182	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
183	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
184	Gedarif - Port Sudan	1.22-22+22.22	Sesame	71.00
185	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
186	Gedarif - Port Sudan	1.22-22+22.22	Sesame	71.00
187	Gedarif - Port Sudan	1.22-22+22.22	Sesame	75.00
188	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
189	Gedarif - Port Sudan	1.22-22+22.22	Sesame	71.00
190	Gedarif - Port Sudan	1.22-22+22.22	Sesame	71.00
191	Gedarif - Port Sudan	1.22-22+22.22	Sesame	70.00
192	Gedarif - Port Sudan	1.22-22+22.22	Sesame	53.00
193	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00

194	Gedarif - Port Sudan	1.22-22+22.22	Sesame	62.00
195	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
196	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
197	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
198	Gedarif - Port Sudan	1.22-22+22.22	Sesame	60.00
199	Gedarif - Port Sudan	1.22-22+22.22	Sesame	70.00
200	Gedarif - Port Sudan	1.22-22+22.22	Sesame	72.00
201	Gedarif - Port Sudan	1.22-22+22.22	Sesame	68.00
202	Gedarif - Port Sudan	1.22-22+22.22	Sesame	66.74
203	Gedarif - Port Sudan	1.22-22+22.22	Sesame	61.68
204	Gedarif - Port Sudan	1.22-22+22.22	Sesame	61.50
205	Gedarif - Port Sudan	1.22-22+22.22	Sesame	55.00
206	Gedarif - Port Sudan	1.22-22+22.22	Sesame	60.20
207	Gedarif - Port Sudan	1.22-22+22.22	Sesame	63.00
208	Gedarif - Port Sudan	1.22-22+22.22	Sesame	63.00
209	Gedarif - Port Sudan	1.22-22+22.22	Umbaz	68.00
210	Kenana -Khartoum	1.22-22+22.22	Sugar	70.00
211	Kenana- Port Sudan	1.22-22+22.22	Container	40.00
212	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
213	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
214	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
215	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
216	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
217	Kenana- Port Sudan	1.22-22+22.22	Sugar	70.00
218	Khartoum - Port Sudan	1.22-22+22.22	Umbaz	50.00
219	Kosti - Khartoum	1.22-22+22.22	Glue	75.00
220	Kosti - Khartoum	1.22-22+22.22	Glue	75.00
221	Kosti - Port Sudan	1.22-22+22.22	Sesame	67.00
222	Kosti - Port Sudan	1.22-22+22.22	Sesame	63.00
223	Kosti - Port Sudan	1.22-22+22.22	Sesame	63.00
224	Obied - Port Sudan	1.22-22+22.22	Peanut	65.00
225	Obied - Port Sudan	1.22-22+22.22	Peanut	65.00
226	Obied - Port Sudan	1.22-22+22.22	Peanut	65.00
227	Obied - Port Sudan	1.22-22+22.22	Peanut	65.00
228	Obied - Port Sudan	1.22-22+22.22	Peanut	65.00
229	Obied - Port Sudan	1.22-22+22.22	Wheat	75.00
230	Obied - Port Sudan	1.22-22+22.22	Seeds	72.00
231	Obied - Port Sudan	1.22-22+22.22	Seeds	71.00
232	Obied - Port Sudan	1.22-22+22.22	Seeds	72.00
233	Obied - Port Sudan	1.22-22+22.22	Seeds	74.00
234	Obied - Port Sudan	1.22-22+22.22	Peanut	67.50
235	Port Sudan - Damazin	1.22-22+22.22	Wheat	70.00
236	Port Sudan - Damazin	1.22-22+22.22	Wheat	70.00
237	Port Sudan - Damazin	1.22-22+22.22	Wheat	70.00
238	Port Sudan - Damazin	1.22-22+22.22	Wheat	70.00
239	Port Sudan - Damazin	1.22-22+22.22	Wheat	70.00
240	Port Sudan - Gedarif	1.22-22+22.22	Wheat	70.00
241	Port Sudan - Gedarif	1.22-22+22.22	Wheat	70.00
242	Port Sudan - Gedarif	1.22-22+22.22	Sacks	62.50



243	Port Sudan - Hasahiesa	1.22-22+22.22	Urea	75.00
244	Port Sudan - Hasahiesa	1.22-22+22.22	Urea	70.00
245	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
246	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
247	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
248	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
249	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
250	Port Sudan - Kassala	1.22-22+22.22	Durra	70.00
251	Port Sudan - Kassala	1.22-22+22.22	Seeds	69.00
252	Port Sudan - Khartoum	1.22-22+22.22	Engine Oil	61.00
253	Port Sudan - Khartoum	1.22-22+22.22	Engine Oil	61.00
254	Port Sudan - Khartoum	1.22-22+22.22	Oil Food	60.00
255	Port Sudan - Khartoum	1.22-22+22.22	Glucose	70.00
256	Port Sudan - Khartoum	1.22-22+22.22	Glucose	70.00
257	Port Sudan - Khartoum	1.22-22+22.22	Plastic	50.00
258	Port Sudan - Khartoum	1.22-22+22.22	Plastic	50.00
259	Port Sudan - Khartoum	1.22-22+22.22	Plastic	50.00
260	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	62.00
261	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	62.00
262	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	62.00
263	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	62.00
264	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	60.00
265	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	40.00
266	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	40.00
267	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	60.00
268	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	60.00
269	Port Sudan - Khartoum	1.22-22+22.22	Plastic Grains	60.00
270	Port Sudan - Khartoum	1.22-22+22.22	Rice	62.00
271	Port Sudan - Khartoum	1.22-22+22.22	Steel	50.00
272	Port Sudan - Khartoum	1.22-22+22.22	Steel	50.00
273	Port Sudan - Khartoum	1.22-22+22.22	Steel	50.00
274	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
275	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
276	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
277	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
278	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
279	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
280	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
281	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
282	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
283	Port Sudan - Khartoum	1.22-22+22.22	Sugar	70.00
284	Port Sudan - Khartoum	1.22-22+22.22	Truss	50.00
285	Port Sudan - Khartoum	1.22-22+22.22	Truss	45.00
286	Port Sudan - Khartoum	1.22-22+22.22	Truss	45.00
287	Port Sudan - Khartoum	1.22-22+22.22	Urea	70.00
288	Port Sudan - Khartoum	1.22-22+22.22	Urea	70.00
289	Port Sudan - Khartoum	1.22-22+22.22	Urea	70.00
290	Port Sudan - Khartoum	1.22-22+22.22	Urea	70.00
291	Port Sudan - Khartoum	1.22-22+22.22	Wheat	75.00

292	Port Sudan - Khartoum	1.22-22+22.22	Wheat	75.00
293	Port Sudan - Khartoum	1.22-22+22.22	Wheat	75.00
294	Port Sudan - Khartoum	1.22-22+22.22	Wheat	75.00
295	Port Sudan - Khartoum	1.22-22+22.22	Wheat	70.00
296	Port Sudan - Khartoum	1.22-22+22.22	Wheat	70.00
297	Port Sudan - Khartoum	1.22-22+22.22	Wheat	70.00
298	Port Sudan - Khartoum	1.22-22+22.22	Wheat	60.00
299	Port Sudan - Khartoum	1.22-22+22.22	Wheat	70.00
300	Port Sudan - Khartoum	1.22-22+22.22	Sacks	48.00
301	Port Sudan - Kosti	1.22-22+22.22	Sacks	62.60
302	Port Sudan - Kosti	1.22-22+22.22	Sacks	62.60
303	Port Sudan - WadMedani	1.22-22+22.22	Urea	75.00
304	Port Sudan - WadMedani	1.22-22+22.22	Urea	70.00
305	Port Sudan - WadMedani	1.22-22+22.22	Urea	70.00
306	Port Sudan - Obied	1.22-22+22.22	Cement	50.00
307	Port Sudan - Obied	1.22-22+22.22	Cement	50.00
308	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
309	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
310	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
311	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
312	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
313	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
314	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
315	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
316	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
317	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
318	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
319	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
320	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
321	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
322	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
323	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
324	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
325	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
326	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
327	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
328	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
329	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
330	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
331	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
332	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
333	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
334	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
335	Port Sudan - Obied	1.22-22+22.22	Wheat	75.00
336	Port Sudan - Obied	1.22-22+22.22	Steel	70.00
337	Port Sudan - Obied	1.22-22+22.22	Steel	70.00
338	Port Sudan - Obied	1.22-22+22.22	Steel	70.00
339	Port Sudan - Obied	1.22-22+22.22	Steel	70.00
340	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00

341	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
342	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
343	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
344	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
345	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
346	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
347	Port Sudan - Sennar	1.22-22+22.22	Urea	70.00
348	Port Sudan - Sennar	1.22-22+22.22	Sacks	62.60
349	Port Sudan - Sennar	1.22-22+22.22	Sacks	62.60
350	Rahad - Port Sudan	1.22-22+22.22	Sesame	72.00
351	Rahad - Port Sudan	1.22-22+22.22	Sesame	63.50
352	Rahad - Port Sudan	1.22-22+22.22	Sesame	63.50
353	Damazin - Khartoum	1.22-222	Sesame	36.00
354	Damazin - Port Sudan	1.22-222	Sesame	36.00
355	Damazin - Port Sudan	1.22-222	Sesame	37.00
356	Damazin - Port Sudan	1.22-222	Sesame	37.00
357	Gedarif - Port Sudan	1.22-222	Durra	36.00
358	Gedarif - Port Sudan	1.22-222	Durra	36.00
359	Gedarif - Port Sudan	1.22-222	Durra	36.00
360	Gedarif - Port Sudan	1.22-222	Sesame	39.00
361	Gedarif - Port Sudan	1.22-222	Sesame	34.00
362	Gedarif - Port Sudan	1.22-222	Sesame	36.00
363	Gedarif - Port Sudan	1.22-222	Sesame	41.87
364	Gedarif - Port Sudan	1.22-222	Sesame	35.00
365	Gedarif - Port Sudan	1.22-222	Sesame	41.00
366	Gedarif - Port Sudan	1.22-222	Sesame	36.00
367	Gedarif - Port Sudan	1.22-222	Umbaz	40.00
368	Kenana - Port Sudan	1.22-222	Container	10.00
369	Kenana - Port Sudan	1.22-222	Sugar	40.00
370	Kenana - Port Sudan	1.22-222	Sugar	40.00
371	Kosti - Port Sudan	1.22-222	Sesame	36.00
372	Kosti - Port Sudan	1.22-222	Sesame	36.00
373	Kosti - Port Sudan	1.22-222	Sesame	36.00
374	Obied - Khartoum	1.22-222	Peanut	33.00
375	Obied - Port Sudan	1.22-222	Peanut	33.00
376	Obied - Port Sudan	1.22-222	Peanut	33.00
377	Obied - Port Sudan	1.22-222	Peanut	33.00
378	Obied - Port Sudan	1.22-222	Peanut	32.50
379	Obied - Port Sudan	1.22-222	Peanut	33.00
380	Obied - Port Sudan	1.22-222	Peanut	32.50
381	Obied - Port Sudan	1.22-222	Peanut	32.50
382	Obied - Port Sudan	1.22-222	Umbaz	37.00
383	Obied - Port Sudan	1.22-222	Umbaz	33.00
384	Obied - Port Sudan	1.22-222	Peanut	33.00
385	Port Sudan - Damazin	1.22-222	Sacks	43.62
386	Port Sudan - Damazin	1.22-222	Sacks	43.43
387	Port Sudan - Damazin	1.22-222	Sacks	43.43
388	Port Sudan - Damazin	1.22-222	Sacks	43.43
389	Port Sudan - Khartoum	1.22-222	Plastic	15.00

390	Port Sudan - Khartoum	1.22-222	Plastic	15.00
391	Port Sudan - Khartoum	1.22-222	Plastic	15.00
392	Port Sudan - Khartoum	1.22-222	Plastic	15.00
393	Port Sudan - Khartoum	1.22-222	Plastic	15.00
394	Port Sudan - Khartoum	1.22-222	Plastic	15.00
395	Port Sudan - Khartoum	1.22-222	Plastic Grains	43.50
396	Port Sudan - Khartoum	1.22-222	Plastic Grains	40.00
397	Port Sudan - Khartoum	1.22-222	Plastic Grains	43.00
398	Port Sudan - Khartoum	1.22-222	Rice	40.00
399	Port Sudan - Khartoum	1.22-222	Rice	40.00
400	Port Sudan - Khartoum	1.22-222	Rice	40.00
401	Port Sudan - Khartoum	1.22-222	Steel	43.16
402	Port Sudan - Khartoum	1.22-222	Steel	42.70
403	Port Sudan - Khartoum	1.22-222	Steel	43.16
404	Port Sudan - Khartoum	1.22-222	Steel	43.00
405	Port Sudan - Khartoum	1.22-222	Steel	43.37
406	Port Sudan - Khartoum	1.22-222	Steel	42.90
407	Port Sudan - Khartoum	1.22-222	Steel	43.00
408	Port Sudan - Khartoum	1.22-222	Steel	40.00
409	Port Sudan - Khartoum	1.22-222	Steel	40.00
410	Port Sudan - Khartoum	1.22-222	Steel	40.00
411	Port Sudan - Khartoum	1.22-222	Sugar	43.30
412	Port Sudan - Khartoum	1.22-222	Sugar	45.00
413	Port Sudan - Obied	1.22-222	Cement	40.00
414	Port Sudan - Obied	1.22-222	Cement	40.00
415	Port Sudan - Obied	1.22-222	Container	40.00
416	Port Sudan - Obied	1.22-222	Container	20.00
417	Port Sudan - Obied	1.22-222	Container	40.00
418	Port Sudan - Obied	1.22-222	Container	40.00
419	Port Sudan - Obied	1.22-222	Container	40.00
420	Port Sudan - Obied	1.22-222	Plastic Grains	35.00
421	Port Sudan - Obied	1.22-222	Plastic Grains	30.00
422	Port Sudan - Obied	1.22-222	Steel	43.00
423	Port Sudan - Obied	1.22-222	Steel	40.00

## Appendix (5): Quick Basic Program for Regression Analysis

```
CLS
N = 8: D = 3: C = D - 1: F = 22
DATA 1, 1, 1135
DATA 1, 3, 1564
DATA 1, 5, 2005
DATA 1, 6, 2571
DATA 1,10,2824
DATA 1,15,3238
DATA 1,21,2133
DATA 1,28,2500
DATA 1, 29
DATA 1, 30
DATA 1, 31
DATA 1, 32
DATA 1, 33
DATA 1, 34
DATA 1, 35
DATA 1, 36
DATA 1, 37
DATA 1, 38
DATA 1, 39
DATA 1, 40
DATA 1, 41
DATA 1, 42
DATA 1, 43
DATA 1, 44
DATA 1, 45
DATA 1, 46
DATA 1, 47
DATA 1, 48
DATA 1, 49
DATA 1, 50
SUM = 0: SUM2 = 0
DIM X(D, N), XX(D, D), DV(D, D), YH(30), BACK(D, D)
DIM INV(3, 3), RXX(C, C), RXY(D), SD(30)
DIM XS(40, 4), XSI(40, 4), XSIXS(25, 25)
DIM DIAG(25), DIAG2(25), SDIAG(25), STDIAG(25)
DIM YHFU(30), YHFL(30), SDAOG(30), TSDIAG(30)
DIM YH2(30)
FOR I = 1 TO N
FOR J = 1 TO D
    READ X(J, I)
    PRINT X(J, I)
NEXT J: PRINT: NEXT I: PRINT: PRINT
1 IF INKEY$ = "" THEN 1
PRINT
FOR L = 1 TO D
FOR I = 1 TO D
```

```

S = 0
  FOR J = 1 TO N
    S = S + X(L, J) * X(I, J)
  NEXT J
  XX(L, I) = S
  PRINT XX(L, I), : BACK(L, I) = S
NEXT I: PRINT : NEXT L
ASY = (BACK(1, D) ^ 2) / N
PRINT : PRINT
PRINT "THE X'X INVERSE IS AS FOLLOWS:"
PRINT
FOR I = 1 TO C
  FOR J = 1 TO C
    INV(I, J) = 0
  NEXT J
  INV(I, I) = 1
NEXT I
FOR K = 1 TO C
  FOR I = 1 TO C
    IF I = K THEN 10
    CZ = XX(I, K) / XX(K, K)
    FOR J = 1 TO C
      XX(I, J) = XX(I, J) - XX(K, J) * CZ
      INV(I, J) = INV(I, J) - INV(K, J) * CZ
    NEXT J
10 NEXT I
CZ = XX(K, K)
  FOR J = 1 TO C
    XX(K, J) = XX(K, J) / CZ
    INV(K, J) = INV(K, J) / CZ
  NEXT J
NEXT K
FOR I = 1 TO C: FOR J = 1 TO C
  PRINT INV(I, J)
  'PRINT TAB(J + 10(
NEXT J: PRINT : NEXT I
231 IF INKEY$ = "" THEN 231
FOR I = 1 TO C: SB = 0
  FOR J = 1 TO C
    SB = SB + INV(I, J) * BACK(J, D)
  NEXT J: B(I) = SB
NEXT I: PRINT
FOR I = 1 TO C
  PRINT "B("; I; ") = "; B(I("
NEXT I: PRINT: PRINT
6111 IF INKEY$ = "" THEN 6111

BXY = 0
FOR I = 1 TO C
  BXY = BXY + (B(I) * BACK(D, I))
NEXT I

```

```

PRINT " Y      YH          E"
SES = 0
FOR I = 1 TO N: YH = 0
  FOR J = 1 TO C
    YH = YH + B (J) * X(J, I)
  NEXT J
  YH(I) = YH
  E = X(J, I) - YH
  SES = SES + (E ^ 2)
  PRINT YH(I), X(J, I), E
NEXT I: PRINT "SES="; SES
21 IF INKEY$ = "" THEN 21

FOR I = 2 TO D: FOR J = 2 TO D
  DV(I, J) = BACK(I, J) - (BACK(1, I) * BACK(1, J) / N(
  ' PRINT DV(I, J),
NEXT J: PRINT: NEXT I: PRINT "THE CORRELATION COEFFICIENTS ARE:"
11 IF INKEY$ = "" THEN 11
FOR J = 2 TO C
  RXY(J) = DV(J, D) / (DV(J, J) * DV(D, D)) ^ .5
  PRINT "R(Y"; "X"; J; ")="; RXY(J)
NEXT J
PRINT: PRINT
111 IF INKEY$ = "" THEN 111
FOR I = 2 TO C: FOR J = 2 TO C
  RXX(I, J) = DV(I, J) / (DV(J, J) * DV(I, I)) ^ .5
  PRINT "R(X"; I; ",X"; J; ")="; RXX(I, J)
NEXT J: PRINT : NEXT I: PRINT
1121 IF INKEY$ = "" THEN 1121

SDY1 = BACK(D, D) - (BACK(1, D) ^ 2) / N
SDY2 = BACK(D, D) - DV(D, D)
RSQ1 = 1 - (SES / SDY1)
RSQ2 = 1 - (SES / SDY2)
PRINT "      RSQ1="; RSQ1; "      RSQ2="; RSQ2

PRINT " REMARKS: F= ((R^2/ (K-1))/ ((1-R^2)/ (N-K))"
F1 = (RSQ1 / (C - 1))
F2 = ((1 - RSQ1) / (N - C))
FTEST = F1 / F2
PRINT "      FTEST="; FTEST, "SES="; SES
SS = SES / (N - C)
PRINT "SE^2="; SS
SRSS = SQR(SS)
FOR I = 1 TO C
  SB(I) = (SS * INV(I, I)) ^ .5
  PRINT "S(B"; I; ")="; SB(I)
NEXT I
PRINT
PRINT

```

```

FOR I = 1 TO C
  TB(I) = B(I) / SB(I): PRINT "TB("; I; ")="; TB(I)
NEXT I
CLS
PRINT
PRINT
REM      FORECASTING TECHNIQUE
PRINT
PRINT
PRINT "FORECASTING TECHNIQUE"
PRINT " THE FORECASTING FORMULA IS:-"
PRINT "YF=YHF+-T(.025,N)*SE*SQR{[XS(X'X)^-1*XS']+1}"
PRINT "FOR CLARITY CALCULATION TAKE PLACE IN THE FOLLOWIN STEPS:"
PRINT "(1) XS * (X'X)^-1 = XSI "
PRINT "(2) XSI * XS' = SR      "
PRINT "(3) DIAG = SQR(SR + 1)  "
PRINT "(3') CALCULATING; YHF; "
PRINT "(4) SE * DIAG = SD      "
PRINT "(5) T * SD = TSD        "
PRINT "(6) FORCASTING NUMBER OF VEHICLES ON THE ROUD FOR THE NEXT
22 YEARS."
PRINT "  YH + - TSD = YHF      "
FOR I = 1 TO F
FOR J = 1 TO 2
  READ XS(I, J)
NEXT J
PRINT
NEXT I
PRINT
8111  IF INKEY$ = "" THEN 8111
CLS
PRINT
REM (1) CALCULATING XS * (X'X)^-1.
PRINT: PRINT
PRINT " XS * (X'X)^-1 ="
PRINT
REM-----
FOR L = 1 TO F
  FOR I = 1 TO 2
    SXSRI = 0
    FOR J = 1 TO 2
      SXSRI = SXSRI + (XS(L, J) * INV(I, J))
    NEXT J
    XSI(L, I) = SXSRI
    PRINT XSI(L, I),
  NEXT I
  PRINT
NEXT L
PRINT
9111  IF INKEY$ = "" THEN 9111
REM (2) CALCULATING (XS * (X'X)^-1 XS'=SR ."

```



```

PRINT " CALCULATING THE DIAGONAL ELEMENTS OF (XS * (X'X)^-1 XS'=
XSIXS(22,22) ."
PRINT
FOR L = 1 TO F
  FOR I = 1 TO F
    SR = 0
    FOR J = 1 TO 2
      IF L <> I GOTO 9
      SR = SR + (XSI(L, J) * XS(I, J))
9  NEXT J
    XSIXS(L, I) = SR
    IF L <> I GOTO 93
    PRINT XSIXS(L, I),
93  NEXT I
  PRINT
NEXT L
777 IF INKEY$ = "" THEN 777
'END
CLS
PRINT: PRINT: PRINT: PRINT: PRINT
REM (3) TRANSFERRING THE DIAGONAL ELEMENTS OF MATRIX XSIXS TO
MATRIX DIOG
REM  AFTER ADDING ONE AND TAKING THE SQUARE ROOT
REM-----
FOR I = 1 TO F
  FOR J = 1 TO F
    IF I <> J GOTO 121
    DIAG(I) = XSIXS(I, J)
    PRINT DIAG(I)
121 NEXT J
NEXT I
PRINT: PRINT
'END

FOR I = 1 TO F
  DIAG2(I) = SQR(DIAG(I) + 1)
  PRINT DIAG2(I)
NEXT I
'END
887 IF INKEY$ = "" THEN 887
CLS
PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT

REM (3') USING THE REGRESSION COEFFICIENTS TO ESTIMATE NUMBER OF
VEHICLES
REM  FOR THE NEXT 22 YEAR
'-----
FOR I = 1 TO F
  YH2 = 0
  FOR J = 1 TO 2
    YH2 = YH2 + B(J) * XS(I, J)

```

```

NEXT J
YH2(I) = YH2
'PRINT YH2(I)
NEXT I
'END
CLS
PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT
REM (4) CALCULATING STEP 4 OF THE FORECASTING FORMULA
FOR I = 1 TO F
    SDIAG(I) = SRSS * DIAG2(I)
NEXT I
REM (5) CALCULATING STEP 5 OF THE FORECASTING FORMULA
FOR I = 1 TO F
    TSDIAG(I) = 2.447 * SDIAG(I)
NEXT I
CLS
PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT: PRINT
REM (6) CALCULATING STEP 6 OF THE FORECASTING FORMULA
FOR I = 1 TO F
    YHFU(I) = YH2(I) + TSDIAG(I)
'PRINT YHFU(I)
NEXT I
'END
PRINT: PRINT: PRINT: PRINT
FOR I = 1 TO F
    YHFL(I) = YH2(I) - TSDIAG(I)
'PRINT YHFL(I),
NEXT I
PRINT: PRINT: PRINT: PRINT
'PRINT "UPER LIMIT   LOWER LIMIT"

FOR I = 1 TO F
'PRINT YHFU(I), YHFL(I)
NEXT I
PRINT "  YH2      YHFUPER LIM  YHFLOWER LIM"
PRINT "-----  -----  -----"
FOR I = 1 TO F
    PRINT YH2(I), YHFU(I), YHFL(I)
NEXT I

```