

15. What would be the advantage for using a EESPRS design for the moist cake experiment in Table 10.10 (and analyzed in Exercise 13)?
- Follow Table 10.14 and the instructions on the bottom of page 435 to page 436 to create an EESPRS split-plot Box-Behnken design with one whole-plot factor and two sub-plot factors. How many runs and how many whole plots in this design?
  - Use the `EEw1S2()` function in the `daewr` package to create a 16 run EESPRS design with 4 whole plots.

Table 10.16 *Average Daily Gains for Cattle Experiment*  
Block

$x_1$	$x_2$	1	2	3	4	5	6	7	8
6.723	0.1095	2.45	1.63	1.28	1.97	1.80	2.36	1.55	1.89
6.281	0.1273	2.08	2.86	3.37	2.37	2.59	2.16	4.14	2.12
5.788	0.1157	2.97	2.58	2.51	2.59	2.57	2.02	-	-
5.729	0.0669	1.92	2.63	2.08	3.26	2.64	2.17	1.35	4.21
6.411	0.0729	4.17	3.09	1.37	2.79	2.38	2.40	1.80	-
6.181	0.1004	3.86	2.39	2.93	2.41	2.59	3.23	2.19	3.04