

```

/*****
/*
/* Reading data gathered from a Randomized Complete Block Design conducted across
/* 4 blocks with 6 treatments from Kuehl (2000).
/* Entered by A.M. Edwards May 25, 2017
/*
*****/

```

```

Data rcdb;
  input block trmt Nitrogen;
  datalines;

```

1	1	34.98
1	2	40.89
1	3	42.07
1	4	37.18
1	5	37.99
1	6	34.89
2	1	41.22
2	2	46.69
2	3	49.42
2	4	45.85
2	5	41.99
2	6	50.15
3	1	36.94
3	2	46.65
3	3	52.68
3	4	40.23
3	5	37.61
3	6	44.57
4	1	39.97
4	2	41.9
4	3	42.91
4	4	39.2
4	5	40.45
4	6	43.29

```

;
Run;

```

```

/* Proc GLM Statements */

```

```

ods pdf file="C:\Users\edwardsm\Documents\Workshops\SAS\Level_III\glm_results_20170614.pdf";
Proc glm data=rcdb;
  class block trmt;
  model Nitrogen = block trmt;
  random block;
  title "Proc GLM Results";
Run;
Quit;
ods pdf close;

```

```

/* Proc MIXED Statements with an LSMEANS for treatment differences */

```

```

ods pdf file="C:\Users\edwardsm\Documents\Workshops\SAS\Level_III\mixed_results_20170614.pdf";
Proc mixed data=rcdb;

```

```
class block trmt;  
model Nitrogen = trmt;  
random block;  
title "Proc MIXED Results";  
Run;  
ods pdf close;
```

```
/* Proc GLIMMIX Statements with an LSMEANS for treatment differences */
```

```
ods pdf file="C:\Users\edwardsm\Documents\Workshops\SAS\Level_III\glimmix_results_20170614.pdf";  
Proc glimmix data=rcbd;  
class block trmt;  
model Nitrogen = trmt;  
random block;  
title "Proc GLIMMIX Results";  
Run;  
ods pdf close;
```