

**Supplementary table 6.**

Results of two-way ANOVAs testing predicted vs measured values, the effect of source pool and their interaction in the early and late rewetted dispersal treatment samples (low and high dispersal treatment only)

	Prediction		Source		Prediction * source	
	F	<i>p</i> -value	F	<i>p</i> -value	F	<i>p</i> -value
<i>Early rewetted dispersal</i>						
<b>Rewetting tolerant OTUs</b>	0.7330	ns	6.751	**	0.0325	ns
<b>Rewetting sensitive OTUs</b>	10.61	**	3.138	.	0.9388	ns
<b>Rewetting opportunistic OTUs</b>	12.46	**	5.806	**	0.1521	ns
<b>Specific respiration</b>	14.46	***	1.001	ns	0.5406	ns
<i>Late rewetted dispersal</i>						
<b>Rewetting tolerant OTUs</b>	1.031	ns	67.48	***	2.903	.
<b>Rewetting sensitive OTUs</b>	2.117	ns	9.243	***	2.004	ns
<b>Rewetting opportunistic OTUs</b>	17.77	***	148.3	***	0.008	ns
<b>Specific respiration</b>	0.0384	ns	6.147	**	1.380	ns