


Examples of gathering raw data

19

Date: 22-08-12	Time: SAH in @ 10:20am
Technique used: Twisted yarn. Soaked overnight, no Lyogen. used pasta like pedal to mix yarn around	Water temperature: Aye in @ 10:30am -11:40 @ 96°C
Yarn type: 1300T Felted was not fully submerged.	
Yarn Supplier: Radfords	Yarn Composition:
Weight of dry yarn (grams): 100g	pH of water:
Dye used: 5mls Golden Yellow stock solution, 4mls Blue MIFERL stock solution, 2.4mls navy stock solution, 2.4mls Red MIFERL	
Colour number (if a mix of dyes): recipe 2 for green but no lemon yellow + less Golden Yellow.	
% shade: 1.445% / 1.445g dye	Vinegar (mls): 30mls + 6 + 4 + 10 + 6
Lyogen (mls):	Glaubers salt (grams): 5g
Water (mls): 2,000mls	Total liquid in dye bath: removed equivalent of dye stock solution before adding salt or vinegar
Time in dye bath:	Sample:
Energy used:	
Evaluative notes: fully exhausted	

Salt
 vinegar
 dye

24

POWER AGEE METER

Time:	Bath time:	Dye steps:	Chemicals:	Temp:	pH level:	Extra acid:
3:40pm		40°C water (this will cool down) + wool left to soak overnight				
		Raise temperature of water + wool back to 40°C and begin dye bath		40°C		
3:40pm	0 minutes	✓ Add Glaubers salt	Glaubers salt	40°C		
3:45	5 minutes	Agitate bath		40°C		
		✓ Add acid, agitate for 5 minutes	Acid	40°C		
3:50	10 minutes	Check pH level adjust if necessary		40°C	4	
3:55	15 minutes	Add dye, agitate for 5 minutes	Dye	40°C		
4pm	20 minutes	Re-check pH level, adjust if needed		40°C	4.4	236 12.1
4pm	20 minutes	Raise temperature over 40 minutes, agitating throughout				
4:05	25 minutes	Check temperature		48		
4:10	30 minutes	Check temperature, prep pH in 5 minutes		54.2		
4:15	35 minutes	Check temperature + pH		59	4.5	233 13.2
4:20	40 minutes	Check temperature		67.8		
4:25	45 minutes	Check temperature, prep pH in 5 minutes		73		
4:30	50 minutes	Check temperature + pH level		80.2	4.5	235 13.9
4:35	55 minutes	Check temperature, leave pot in Agee for last 5 minutes of heating		82.5		
4:40	60 minutes	Dye bath should now be at 96°C, agitate with lid on		89.1		
4:55	75 minutes	Take small amount of dye out and leave to cool				
5pm	80 minutes	Check pH of cooled dye out of dye bath, then replace dye			4.6	
5:30pm	105 minutes	Leave yarn to cool for 20 minutes				232 17.9
	125 minutes	Take yarn out of dye bath and rinse yarn				
	130 minutes	Test pH level of remaining dye bath and correct	Baking soda		7.4	

TURN ON AGEE

Total = 5.8kwh