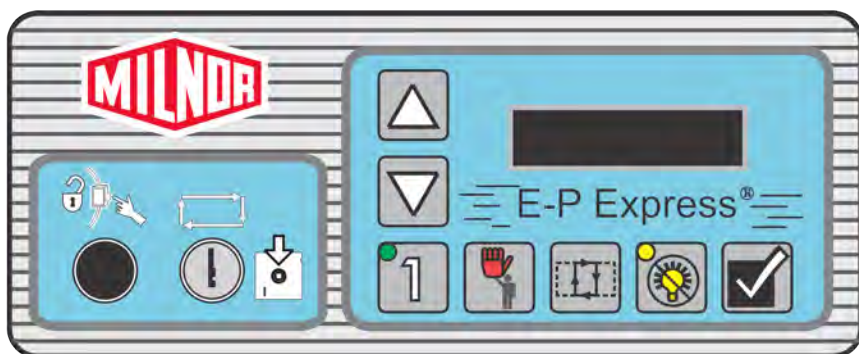




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Wash Formulas

The E-P Express® Controller



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1 Information

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1.1 About this Manual

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1.1.1 Scope

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This manual documents the default formulas provided in Milnor® washer-extractors using the E-P Express® microprocessor control system. See the reference manual for commissioning, programming, operating, and troubleshooting instructions. See the installation manual for information on machine installation procedures and mechanical requirements. See the service manual for preventive maintenance, service procedures, and mechanical parts identification. See the schematic manual for electrical parts identification and electrical troubleshooting instructions.

1.1.2 The Normal Display at Start-up

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The start-up display sequence for E-P Express® machines is described in document BNCJHO03, entitled “Running a Formula.” Use the table of contents for this manual to locate this document.

1.1.3 If this Manual Does Not Have the Necessary Data

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This manual has the best data that was available when your machine was made. If you cannot find the necessary data:

- **Are you looking for data about a component not made by Milnor® but used on your machine—for example, a motor or a brake caliper?** We usually do not put the instructions of component manufacturers in Milnor® manuals. You can find some of these instructions in the part of the Milnor® website that gives maintenance data (<http://milnortechnicalsupport.force.com/pkbmilnor/>). You can also find instructions for many components on the manufacturers’ websites.
- **Are you looking for data about a Milnor® component on your machine that this manual does not give?** If we get better data or more data after the manual is available, we will add it to a newer version of the manual. Speak with the Milnor® Customer Support group. They can give you newer instructions if they are available or help you if not.

1.1.4 Trademarks

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These words are trademarks of Pellerin Milnor® Corporation and other entities:

Table 1. Trademarks

AutoSpot™	GreenFlex™	MilMetrix®	PulseFlow®
CBW®	GreenTurn™	MilTouch™	Ram Command™
Drynet™	Hydro-cushion™	MilTouch-EX™	RecircONE®
E-P Express®	Mentor®	MILRAIL™	RinSave®
E-P OneTouch®	Mildata®	Miltrac™	SmoothCoil™
E-P Plus®	Milnor®	PBW™	Staph Guard®
Gear Guardian®			

2 Summary

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2.1 Summary of E-P Express® Configurations and Formulas

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Washer-extractors with the E-P Express® controller are programmed at the factory to contain default formulas which are always available in the machine. These default formulas can be loaded into the machine's memory, modified, and deleted according to procedures described in the reference manual for this machine. However, a copy of the default formulas as prepared by the Milnor® factory is always available to replace the modified formulas.

2.1.1 Available Configurations

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Each E-P Express® machine can be configured for one of the industries listed in [Table 2: Software Configuration for Industries, page 6](#). This configuration is accomplished by setting a DIP switch on the microprocessor controller to a specific setting for the desired industry. Complete detailed instructions for configuring your washer-extractor can be found in the reference manual for your machine.

Table 2. Software Configuration for Industries

Available Industry Configurations	
Athletic Laundry	Restaurant Laundry
Correctional Laundry	Shirt Laundry
Hotel-Motel Laundry	Commercial Laundry
Healthcare Laundry	Offshore Laundry

2.1.2 Formulas (by Configuration)

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The tables below list the specific default formulas available in each industry configuration of the E-P Express® controller. Detailed descriptions of each formula, including step times and chemical injections, are elsewhere in this manual.

Table 3. Athletic Laundry

Formula Number	Application	Formula Number	Application
1	Standard Wash	6	Basketball and Delicates
2	Towels	7	Cold Wash

Table 3 Athletic Laundry (cont'd.)

Formula Number	Application	Formula Number	Application
3	Baseball, Football, Soccer— Light to Medium Soil	8	Multi-flush
4	Baseball, Football, Soccer— Heavy Soil	9	Stain Treatment
5	Floor Mops	10	Quick Wash

Table 4. Correctional Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Personal Clothing (Colored)
2	Personal Clothing (White)	7	Infirmary
3	White Bed Linen, Towels, and Uniforms	8	Food Service, Aprons, Wipes, and Mops
4	Colored Bed Linen, Towels, and Uniforms	9	Stain Treatment
5	Blankets	10	Quick Wash

Table 5. Hotel-Motel Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Colored Table Linens
2	Sheets	7	White Table Linens and Kitchen Articles
3	Pillowcases	8	Multi-flush
4	Towels and Uniforms	9	Stain Soak
5	Bedspreads and Blankets	10	Quick Wash

Table 6. Healthcare Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Sheepskins
2	Sheets	7	White Table Linens
3	Pillowcases	8	Multi-flush
4	Towels and Personal Goods	9	Stain Treatment
5	Pads and Diapers	10	Quick Wash

Table 7. Restaurant Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Hand Towels and Uniforms
2	Colored Table Linen	7	Floor Mops
3	White Table Linen	8	Multi-flush

Table 7 Restaurant Laundry (cont'd.)

Formula Number	Application	Formula Number	Application
4	Wipes	9	Stain Treatment
5	100% Polyester Table Linen	10	Quick Wash

Table 8. Shirt Laundry

Formula Number	Application	Formula Number	Application
1	Starch and Extract	6	Split Wash—No Starch
2	Starched Goods (White)	7	Cold Wash—No Starch
3	Starched Goods (Colored)	8	Delicates
4	Cold Wash Starched Goods	9	Stain Treatment
5	Hot Wash—No Starch	10	Extract

Table 9. Commercial Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Heavy Soil (White)
2	Light Soil (White)	7	Heavy Soil (Colored)
3	Light Soil (Colored)	8	Multi-flush
4	Medium Soil (White)	9	Stain Treatment
5	Medium Soil (Colored)	10	Bedspreads and Blankets

Table 10. Offshore Laundry

Formula Number	Application	Formula Number	Application
1	Standard wash	6	Colored Table Linen
2	Personal Work	7	Greasy Rags
3	Work Clothes—No Bleach	8	Multi-flush
4	Bed and Bath Linen	9	Stain Treatment
5	Kitchen Wipes and Mops	10	Quick Wash

3 Key to Tables

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3.1 How to Use the E-P Express® Formula Tables

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Each standard E-P Express® formula is described in this manual. Formulas are made up of steps, which are programmed through a series of decisions. In the formula tables in this manual, each step decision is represented by a column, and each step is described by one row of the table.

Part of a typical formula chart is shown in [Table 11: Partial Formula: Example Only, page 9](#) below, and a brief description of each step decision follows the table. For more complete explanations of each decision, see the appropriate section in the reference manual for your machine.

3.1.1 Sample Formula Table

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Table 11. Partial Formula: Example Only

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	

3.1.2 Definitions of Step Decision Symbols

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3.1.2.1 T = Type of Step

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- 00 = End Formula** always the last step in a formula; signifies that there are no further steps.
- 01 = Hot Soak** basket stationary during fill to high level with hot water; remains stationary throughout step
- 02 = Cold Soak** basket stationary during fill to high level with hot water; remains stationary throughout step
- 03 = Split Soak** basket stationary during fill to high level with hot water; remains stationary throughout step
- 04 = Hot Flush** basket reversing at wash speed during fill to high level with hot water; continues reversing throughout step
- 05 = Cold Flush** basket reversing at wash speed during fill to high level with cold water; continues reversing throughout step
- 06 = Split Flush** basket reversing at wash speed during fill to high level with split water; continues reversing throughout step

- 07 = Hot Wash** basket reversing at wash speed during fill to low level with hot water; continues reversing throughout step
- 08 = Cold Wash** basket reversing at wash speed during fill to low level with cold water; continues reversing throughout step
- 09 = Split Wash** basket reversing at wash speed during fill to low level with split water; continues reversing throughout step
- 10 = Hot Rinse** basket reversing at wash speed during fill to high level with hot water; continues reversing throughout step
- 11 = Cold Rinse** basket reversing at wash speed during fill to high level with cold water; continues reversing throughout step
- 12 = Split Rinse** basket reversing at wash speed during fill to high level with split water; continues reversing throughout step
- 13 = Finish** basket reversing at wash speed during fill to low level with cold water; continues reversing throughout step; split fill available through configuration
- 14 = Extract** Extract—basket rotating at extract speed throughout step with drain open

3.1.2.2 MMQ = Step Duration

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Enter the duration of the step in minutes, minutes, and quarter-minutes.

- 001** step duration of 15 seconds (**minimum** allowable step duration)
- 072** step duration of 7:30 (7 minutes and 2 quarter-minutes)
- 633** step duration of 63:45 (**maximum** allowable step duration)



NOTE: The total time for a wash formula will be greater than the sum of the individual step times because of drain times and coast times, which vary among machine models.

3.1.2.3 C = Chemicals

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Any number of chemicals may be added to any bath step, at the discretion of the programmer. Default chemical injection times are always 30 seconds per chemical unless modified in the wash formula. The default chemical injection times are also restored whenever the default formulas are restored.

If the chemical numbers and names shown below do not correspond to how your machine is set up, do not use the default formulas without first testing and modifying the chemical injection values.

- 1 Place a “1” in this column to inject chemical 1, which is usually **detergent**. The injection signal **for this chemical only** can be modified for each formula through the configuration menu.
- 2 Place a “1” in this column to inject chemical 2, which is usually **bleach**. The chemical injection signal will be enabled for 30 seconds.
- 3 Place a “1” in this column to inject chemical 3, which is usually **sour**. The chemical injection signal will be enabled for 30 seconds.
- 4 Place a “1” in this column to inject chemical 4, which is usually **softener**. The chemical injection signal will be enabled for 30 seconds.
- 5 Place a “1” in this column to inject chemical 1, which is usually **starch**. The chemical injection signal will be enabled for 30 seconds.

4 Formula Details

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4.1 Standard Athletic Laundry Formulas for E-P Express®

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Table 12. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 13. Formula 02: Towels

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	1	0	0	0	wash	10	reversing	low	hot	detergent, bleach
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	1	0	2	0						rinse	2	reversing	high	split	
4	1	4	0	1	0						extract	1	extract			
5	1	1	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 14. Formula 03: Baseball, Football, Soccer—Light to Medium Soil

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
2	0	7	0	8	0	1	1	0	0	0	wash	8	reversing	low	hot	detergent, bleach
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	1	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	1	0	2	0						rinse	2	reversing	high	split	
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 15. Formula 04: Baseball, Football, Soccer—Heavy Soil

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	5	0	1	0	0	0	0	wash	15	reversing	low	hot	detergent
2	0	7	1	2	0	1	1	0	0	0	wash	12	reversing	low	hot	detergent, bleach
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	1	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	1	0	2	0						rinse	2	reversing	high	split	
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 16. Formula 05: Floor Mops

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	3	0						flush	3	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	6	0	2	0						flush	2	reversing	high	split	
5	0	7	1	2	0	1	1	0	0	0	wash	12	reversing	low	hot	detergent, bleach
6	1	0	0	2	0						rinse	2	reversing	high	hot	
7	1	1	0	2	0						rinse	2	reversing	high	split	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	6	0						extract	6	extract			
11	0	0									end					

Table 17. Formula 06: Basketball and Delicates

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	9	1	0	0	1	0	0	0	0	wash	10	reversing	low	split	detergent
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	3	0	3	0						finish	3	reversing	low	cold	
6	1	4	0	6	0	0	0	1	0	0	extract	6	extract			sour
7	0	0									end					

Table 18. Formula 07: Cold Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	5	0	2	0						flush	2	reversing	high	cold	
2	0	8	0	7	0	1	0	0	0	0	wash	7	reversing	low	cold	detergent
3	1	1	0	2	0						rinse	2	reversing	high	cold	
4	1	1	0	2	0						rinse	2	reversing	high	cold	
5	1	1	0	2	0						rinse	2	reversing	high	cold	
6	1	4	0	3	0						extract	3	extract			
7	0	0									end					

Table 19. Formula 08: Multi-Flush

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	

Table 19 Formula 08: Multi-Flush (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	0	0	2	0						rinse	2	reversing	high	hot	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	1	0						extract	1	extract			
11	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
12	1	4	0	6	0						extract	6	extract			
13	0	0									end					

Table 20. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 21. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					

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4.2 Standard Correctional Laundry Formulas for E-P Express®

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Table 22. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			

Table 22 Formula 01: Standard Wash (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 23. Formula 02: Personal Clothing (White)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	8	0	1	1	0	0	0	wash	8	reversing	low	hot	detergent, bleach
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 24. Formula 03: White Bed Linen, Towels, Uniforms

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 25. Formula 04: Colored Bed Linen, Towels, Uniforms

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	8	0						extract	8	extract			
9	0	0									end					

Table 26. Formula 05: Blankets

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	9	0	8	0	1	0	0	0	0	wash	8	reversing	low	split	detergent
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	1	0	2	0						rinse	2	reversing	high	cold	
4	1	1	0	2	0						rinse	2	reversing	high	cold	
5	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener

Table 26 Formula 05: Blankets (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
6	1	4	0	6	0						extract	6	extract			
7	0	0									end					

Table 27. Formula 06: Personal Clothing (colored)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	3	0	7	0	0	0	1	0	1	finish	7	reversing	low	cold	sour, starch
8	1	4	0	3	0						extract	3	extract			
9	0	0									end					

Table 28. Formula 07: Infirmary

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
3	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	7	0	0	0	1	0	1	finish	7	reversing	low	cold	sour, starch
9	1	4	0	6	0						extract	6	extract			
10	0	0									end					

Table 29. Formula 08: Food Service/Aprons/Wipes/Mops

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	4	0	2	0						flush	2	reversing	high	hot	
2	0	4	0	2	0						flush	2	reversing	high	hot	
3	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
4	0	7	0	6	0	1	0	0	0	0	wash	6	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	beach
7	1	2	0	2	0						rinse	2	reversing	high	split	
8	1	2	0	2	0						rinse	2	reversing	high	split	
9	1	4	0	1	0						extract	1	extract			
10	1	2	0	2	0						rinse	2	reversing	high	split	
11	1	4	0	1	0						extract	1	extract			
12	1	3	0	3	0						finish	3	reversing	low	cold	sour
13	1	4	0	6	0						extract	6	extract			
14	0	0									end					

Table 30. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 31. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					

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4.3 Standard Hotel-Motel Laundry Formulas for E-P Express®

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Table 32. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 33. Formula 02: Sheets

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 34. Formula 03: Pillowcases

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 35. Formula 04: Towels and Uniforms

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
9	1	4	0	8	0						extract	8	extract			
10	0	0									end					

Table 36. Formula 05: Bedspreads and Blankets

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	9	0	8	0	1	0	0	0	0	wash	8	reversing	low	split	detergent
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	1	0	2	0						rinse	2	reversing	high	cold	
4	1	1	0	2	0						rinse	2	reversing	high	cold	
5	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
6	1	4	0	6	0						extract	6	extract			
7	0	0									end					

Table 37. Formula 06: Colored Table Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	0	0	finish	4	reversing	low	cold	sour, softener
7	1	4	0	3	0						extract	3	extract			
8	0	0									end					

Table 38. Formula 07: White Table Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	

Table 38 Formula 07: White Table Linens (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
3	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	0	1	finish	4	reversing	low	cold	sour, starch
9	1	4	0	3	0						extract	3	extract			
10	0	0									end					

Table 39. Formula 08: Multi-Flush

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	0	0	2	0						rinse	2	reversing	high	hot	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	1	0						extract	1	extract			
11	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
12	1	4	0	6	0						extract	6	extract			
13	0	0									end					

Table 40. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 41. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					

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4.4 Standard Healthcare Laundry Formulas for E-P Express®

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Table 42. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 43. Formula 02: Sheets

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	7	0	8	0	1	1	0	0	0	wash	8	reversing	low	hot	detergent, bleach
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 44. Formula 03: Pillowcases

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
3	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
9	1	4	0	6	0						extract	6	extract			
10	0	0									end					

Table 45. Formula 04: Towels and Personal Goods

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	2	0	2	0						rinse	2	reversing			

Table 45 Formula 04: Towels and Personal Goods (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
8	1	4	0	1	0						extract	1	extract			
9	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
10	1	4	0	8	0						extract	8	extract			
11	0	0									end					

Table 46. Formula 05: Pads and Diapers

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	2	0	2	0						rinse	2	reversing	high	split	
9	1	4	0	1	0						extract	1	extract			
10	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
11	1	4	0	6	0						extract	6	extract			
12	0	0									end					

Table 47. Formula 06: Sheepskins

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	5	0	2	0						flush	2	reversing	high	cold	
2	0	9	0	7	0	1	0	0	0	0	wash	7	reversing	low	split	detergent
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	1	0	2	0						rinse	2	reversing	high	cold	
5	1	4	0	2	0						extract	2	extract			
6	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
7	1	4	0	3	0						extract	3	extract			
8	0	0									end					

Table 48. Formula 07: White Table Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	4	0	2	0						flush	2	reversing	high	hot	
2	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	1	4	0	1	0						extract	1	extract			
7	1	2	0	2	0						rinse	2	reversing	high	split	
8	1	4	0	1	0						extract	1	extract			
9	1	3	0	4	0	0	0	1	0	1	finish	4	reversing	low	cold	sour, starch
10	1	4	0	3	0						extract	3	extract			
11	0	0									end					

Table 49. Formula 08: Multi-Flush

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	0	0	2	0						rinse	2	reversing	high	hot	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	1	0						extract	1	extract			
11	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
12	1	4	0	6	0						extract	6	extract			
13	0	0									end					

Table 50. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 51. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					

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Table 52. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			

Table 52 Formula 01: Standard Wash (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 53. Formula 02: Colored Table Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	0	1	finish	4	reversing	low	cold	sour, starch
7	1	4	0	3	0						extract	3	extract			
8	0	0									end					

Table 54. Formula 03: White Table Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	0	1	finish	4	reversing	low	cold	sour, starch
9	1	4	0	3	0						extract	3	extract			
10	0	0									end					

Table 55. Formula 04: Wipes

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	4	0	2	0						flush	2	reversing	high	hot	
2	0	4	0	2	0						flush	2	reversing	high	hot	
3	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
4	0	7	0	6	0	1	0	0	0	0	wash	6	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	2	0	2	0						rinse	2	reversing	high	split	
8	1	2	0	2	0						rinse	2	reversing	high	split	
9	1	4	0	1	0						extract	1	extract			
10	1	2	0	2	0						rinse	2	reversing	high	split	
11	1	4	0	1	0						extract	1	extract			
12	1	3	0	3	0	0	0	1	0	0	finish	3	reversing	low	cold	sour
13	1	4	0	6	0						extract	6	extract			
14	0	0									end					

Table 56. Formula 05: 100% Polyester Table Linen

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	0	0	finish	4	reversing	low	cold	sour
9	1	4	0	1	2						extract	1.5	extract			
10	0	0									end					

Table 57. Formula 06: Hand Towels and Uniforms

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
9	1	4	0	8	0						extract	8	extract			
10	0	0									end					

Table 58. Formula 07: Floor Mops

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	4	0	2	0						flush	2	reversing	high	hot	
2	0	4	0	2	0						flush	2	reversing	high	hot	
3	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	2	0	2	0						rinse	2	reversing	high	split	
9	1	4	0	1	0						extract	1	extract			
10	1	1	0	2	0						rinse	2	reversing	high	cold	
11	1	4	0	6	0						extract	6	extract			
12	0	0									end					

Table 59. Formula 08: Multi-Flush

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach

Table 59 Formula 08: Multi-Flush (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
7	1	0	0	2	0						rinse	2	reversing	high	hot	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	1	0						extract	1	extract			
11	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
12	1	4	0	6	0						extract	6	extract			
13	0	0									end					

Table 60. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 61. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					

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Table 62. Formula 01: Starch and Extract

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	1	3	0	7	0	0	0	0	0	1	finish	7	reversing	low	cold	starch
2	1	4	0	6	0						extract	6	extract			
3	0	0									end					

Table 63. Formula 02: Starched Goods—White

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	2	0	1	1	0	0	0	wash	12	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	2	0	2	0						rinse	2	reversing	high	split	

Table 63 Formula 02: Starched Goods—White (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
6	1	3	0	7	0	0	0	1	0	1	finish	7	reversing	low	cold	sour, starch
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 64. Formula 03: Starched Goods—Colored

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	9	1	2	0	1	1	0	0	0	wash	12	reversing	low	split	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	7	0	0	0	1	0	1	finish	7	reversing	low	cold	sour, starch
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 65. Formula 04: Cold Wash—Starched Goods

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	8	1	2	0	1	1	0	0	0	wash	12	reversing	low	cold	detergent, bleach
2	1	8	0	2	0						rinse	2	reversing	high	cold	
3	1	4	0	1	0						extract	1	extract			
4	1	1	0	2	0						rinse	2	reversing	high	cold	
5	1	1	0	2	0						rinse	2	reversing	high	cold	
6	1	3	0	7	0	0	0	1	0	1	finish	7	reversing	low	cold	sour, starch
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 66. Formula 05: Hot Wash—No Starch

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	2	0	1	1	0	0	0	wash	12	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	0	0	finish	4	reversing	low	cold	sour
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 67. Formula 06: Split Wash—No Starch

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	9	1	2	0	1	1	0	0	0	wash	12	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	0	0	finish	4	reversing	low	cold	sour
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 68. Formula 07: Cold Wash—No Starch

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	8	1	2	0	1	1	0	0	0	wash	12	reversing	low	cold	detergent, bleach
2	1	1	0	2	0						rinse	2	reversing	high	cold	
3	1	4	0	1	0						extract	1	extract			
4	1	1	0	2	0						rinse	2	reversing	high	split	
5	1	1	0	2	0						rinse	2	reversing	high	cold	
6	1	3	0	4	0	0	0	1	0	0	finish	4	reversing	low	cold	sour
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 69. Formula 08: Delicates

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	detergent
2	0	9	0	5	0	1	0	0	0	0	wash	5	reversing	low	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	1	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
7	1	4	0	3	0						extract	3	extract			
8	0	0									end					

Table 70. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 71. Formula 10: Extract

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	1	0						flush	1	reversing	high	split	
2	1	4	0	6	0						extract	6	extract			
3	0	0									end					

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Table 72. Formula 01: Standard Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	1	0	0	0	wash	7	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	

Table 72 Formula 01: Standard Wash (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 73. Formula 02: Personal Work

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	8	0	1	1	0	0	0	wash	8	reversing	low	hot	detergent, bleach
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	4	0	1	0						extract	1	extract			
7	1	3	0	4	0	0	0	1	1	0	finish	5	reversing	low	cold	sour, softener
8	1	4	0	6	0						extract	6	extract			
9	0	0									end					

Table 74. Formula 03: Work Clothes—No Bleach

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
4	0	7	0	7	0						wash	7	reversing	low	hot	
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	1	0	2	0						rinse	2	reversing	high	cold	
8	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
9	1	4	0	6	0						extract	6	extract			
10	0	0									end					

Table 75. Formula 04: Bed and Bath Linens

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
4	1	0	0	2	0						rinse	2	reversing	high	hot	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	1	0						extract	1	extract			
8	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
9	1	4	0	6	0						extract	6	extract			
10	0	0									end					

Table 76. Formula 05: Kitchen Wipes and Mops

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	4	0	2	0						flush	2	reversing	high	hot	
2	0	4	0	2	0						flush	2	reversing	high	hot	
3	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
4	0	7	0	6	0	1	0	0	0	0	wash	6	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	2	0	2	0						rinse	2	reversing	high	split	
8	1	2	0	2	0						rinse	2	reversing	high	split	
9	1	4	0	1	0						extract	1	extract			
10	1	2	0	2	0						rinse	2	reversing	high	split	
11	1	4	0	1	0						extract	1	extract			
12	1	3	0	3	0	0	0	1	0	0	finish	3	reversing	low	cold	sour
13	1	4	0	6	0						extract	6	extract			
14	0	0									end					

Table 77. Formula 06: Colored Table Linen

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	1	0	0	1	0	0	0	0	wash	10	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	1	4	0	1	0						extract	1	extract			
5	1	2	0	2	0						rinse	2	reversing	high	split	
6	1	3	0	4	0	0	0	1	0	1	finish	4	reversing	low	cold	sour, starch
7	1	4	0	3	0						extract	3	extract			
8	0	0									end					

Table 78. Formula 07: Greasy Rags

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
2	1	0	0	2	0						rinse	2	reversing	high	hot	
3	1	0	0	2	0						rinse	2	reversing	high	hot	
4	0	7	0	8	0	1	0	0	0	0	wash	8	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	
6	1	4	0	1	0						extract	1	extract			
7	1	2	0	2	0						rinse	2	reversing	high	split	
8	1	4	0	1	0						extract	1	extract			
9	1	1	0	2	0						rinse	2	reversing	high	cold	
10	1	4	0	6	0						extract	6	extract			
11	0	0									end					

Table 79. Formula 08: Multi-Flush

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	6	0	2	0						flush	2	reversing	high	split	
2	0	6	0	2	0						flush	2	reversing	high	split	
3	0	6	0	2	0						flush	2	reversing	high	split	
4	0	7	0	7	0	1	0	0	0	0	wash	7	reversing	low	hot	detergent
5	1	0	0	2	0						rinse	2	reversing	high	hot	

Table 79 Formula 08: Multi-Flush (cont'd.)

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
6	0	7	0	7	0	0	1	0	0	0	wash	7	reversing	low	hot	bleach
7	1	0	0	2	0						rinse	2	reversing	high	hot	
8	1	4	0	1	0						extract	1	extract			
9	1	2	0	2	0						rinse	2	reversing	high	split	
10	1	4	0	1	0						extract	1	extract			
11	1	3	0	4	0	0	0	1	1	0	finish	4	reversing	low	cold	sour, softener
12	1	4	0	6	0						extract	6	extract			
13	0	0									end					

Table 80. Formula 09: Stain Treatment

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	3	0	0	1	1	0	0	0	wash	30	reversing	low	hot	detergent, bleach
2	1	2	0	2	0						rinse	2	reversing	high	split	
3	1	2	0	2	0						rinse	2	reversing	high	split	
4	1	2	0	2	0						rinse	2	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	2	0	2	0						rinse	2	reversing	high	split	
7	1	4	0	6	0						extract	6	extract			
8	0	0									end					

Table 81. Formula 10: Quick Wash

	T	T	M	M	Q	1	2	3	4	5	Name	Minutes	Basket	Level	Temp	Chemicals
1	0	7	0	5	0	1	1	0	0	0	wash	5	reversing	low	hot	detergent, bleach
2	1	0	0	1	0						rinse	1	reversing	high	hot	
3	1	4	0	1	0						extract	1	extract			
4	1	2	0	1	0						rinse	1	reversing	high	split	
5	1	4	0	1	0						extract	1	extract			
6	1	3	0	3	0	0	0	1	1	0	finish	3	reversing	low	cold	sour, softener
7	1	4	0	5	0						extract	5	extract			
8	0	0									end					