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**Published Manual Number: MDCJUR02**

- Specified Date: 20150623
- As-of Date: 20150623
- Access Date: 20150623
- Depth: Detail
- Custom: n/a
- Applicability: CJU
- Language Code: ENG01, Purpose: publication, Format: 1colA

# **Technical Reference— RinSave™ E-P Plus® Wash Formulas**

**Applicable Milnor® products by model number:**

30015M4J	30015M6J	30015S5J	30015T5J	30015V7J	30022F8J	30022H7J
30022H8J	30022M5J	30022S4J	30022S5J	30022T5J	30022V6J	30022VRJ
30022X8J	36021Q4J	36021Q6J	36021V5J	36021V7J	36026Q4J	36026Q6J
36026V5J	36026V7J	36030F8J	42026Q4J	42026Q6J	42026V6J	42026X7J
42030V6J	42032F7J	42032X7J				

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## 1. About This Manual

### 1.1. Scope

This manual documents the default formulas provided in Milnor® washer extractors equipped with the Milnor® E-P Plus® microprocessor control. See the reference manual for operating, programming, 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.

### 1.2. If this Manual Does Not Have the Necessary Data [Document BIUUUD17]

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://www.milnor.com/tkbsearch18.asp>). 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that this manual does not give?** If we get better data or more data after the manual is available, we will add it to a newer version of the manual.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.

### 1.3. The Normal Display at Start-up

The start-up display sequence for models using the E-P Plus® controller is described in the related section in document BICJHO01.

### 1.4. About the Controller Displays in the Bilingual Manuals [Document BIUUUD15]



**Notice 1:** This document uses Simplified Technical English (STE). See the related section in document BIUUUD18.

If this manual contains more than one language, we show each controller display one time for each language in the manual. We show the English display immediately below the native (non-English) on the left side of the page, as shown in [Figure 1](#).

**Figure 1: Typical Bilingual Controller Display and Description**

Wyświetlacz lub Działanie [Display or Action]	Objaśnienie	Explanation
URUCHOM PROGRAM 00 OK MOŻNA WYŁĄCZYĆ	To jest wyświetlacz <i>Uruchom Program</i> .	This is the <i>Run Formula</i> display.
RUN FORMULA 00 OK TO POWER OFF		

Milnor makes displays in many languages. We show displays in the English language if Milnor® does not supply a native language version. The manual can have some non-English displays for

languages that Milnor does not supply. These displays **do not** show on the machine, but they help the user read the English display.

## 1.5. How to Identify this Manual and its Included Documents [Document

BIUUUD13]

Use the specifications on the front cover of this manual to identify this manual or the included documents. This section tells about these specifications.

**Published manual number**—The primary identification number for the manual.

**Specified date**—The first assembly date for the machine or change about which this manual gives data.

**As-of date**—The company makes new manuals about items that are not new. These new manuals will include data started before this date.

**Access date**—The date Milnor prepared the manual for its publication.

**Depth**—“Detail” manuals show the maximum available data. “Synopsis” manuals show the minimum necessary data. A manual with more data goes with a synopsis manual.

**Custom**—A value of “n/a” here shows that this manual applies to all machines identified on the inner front cover of the manual. Other values show the laundry name and a code for the specified machine.

**Applicability**—Each value here shows the machines or model numbers that this manual applies to. The inner front cover shows the full list of the applicable models. If this value is “not used,” this manual has a different function.

**Language Code**—The value here shows the language and dialect of this manual. “Eng01” shows that the manual uses United States English.

Refer to a **document** in this manual with all of the specifications shown on the front cover. Replace the published manual number with the document number.

## 1.6. Trademarks of Pellerin Milnor Corporation [Document BIUUUD14]

These words are trademarks of Pellerin Milnor Corporation:

**Table 1: Trademarks**

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

— End of BIRHUK03 —

## 2. Summary of E-P Plus® Configurations and Formulas

### 2.1. Available Software Configurations

Washer-extractors with the E-P Plus® 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 formula set as prepared by the Milnor® factory is always retained and available for replacing the modified formulas if necessary.

Each E-P Plus® machine can be configured for one of the industries listed in [Table 2](#). 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 E-P Plus® washer-extractor can be found in the reference manual for your machine.

**Table 2: Software Configuration for Industries**

Available Industry Configurations	
Athletic Laundry	Shirt Laundry
Correctional Laundry	Commercial Laundry
Hotel-Motel Laundry	Offshore Laundry
Healthcare Laundry	Gear Guardian (fire department use)
Restaurant Laundry	

### 2.2. Formulas Available in Each Configuration

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

**Table 3: Athletic Laundry Formulas**

Formula Number	Application	Formula Number	Application
1	Standard Wash	6	Light Soil
2	Towels	7	Cold Wash
3	Athletic Uniforms	8	Multi-flush
4	Socks and T-shirts	9	Stain Soak
5	Floor Mops	10	Quick Wash

**Table 4: Correctional Laundry Formulas**

Formula Number	Application	Formula Number	Application
1	Standard Wash	6	Personal Clothing (Color)
2	Personal Clothing (White)	7	Infirmery
3	Bed Linen/Towels	8	Food Service/Aprons/ Wipes/Mops
4	Uniforms	9	Stain Soak
5	Blankets	10	Quick Wash

**Table 5: Hotel-Motel Laundry Formulas**

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 Formulas**

Formula Number	Application	Formula Number	Application
1	Standard Wash	6	Sheepskins and Cubicle Curtains
2	Sheets	7	White Table Linens and Kitchen Articles
3	Pillowcases	8	Multi-flush
4	Towels and Personal Work	9	Stain Soak
5	Pads and Diapers	10	Quick Wash
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 Formulas**

Formula Number	Application	Formula Number	Application
1	Standard Wash	6	Hand Towels and Uniforms
2	Colored Table Linen	7	Floor Mops
3	Table Linen and Aprons	8	Multi-flush
4	Wipes	9	Stain Soak
5	Stain Treatment	10	Quick Wash
1	Standard Wash	6	Hand Towels and Uniforms
2	Colored Table Linen	7	Floor Mops
3	White Table Linen	8	Multi-flush
4	Wipes	9	Stain Treatment
5	100% Polyester Table Linen	10	Quick Wash

**Table 8: Shirt Laundry Formulas**

<b>Formula Number</b>	<b>Application</b>	<b>Formula Number</b>	<b>Application</b>
1	Starch/Extract Only	6	Delicates
2	White (Starch)	7	Stain Treatment
3	Colored (Starch)	8	Oxygen Bleach
4	White (No Starch)	9	Stain Soak
5	Colored (No Starch)	10	Extract
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 Formulas**

<b>Formula Number</b>	<b>Application</b>	<b>Formula Number</b>	<b>Application</b>
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 Soak
5	Medium Soil (Colored)	10	Quick Wash
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 Formulas**

<b>Formula Number</b>	<b>Application</b>	<b>Formula Number</b>	<b>Application</b>
1	Standard Wash	6	Floor Mops
2	Personal Work	7	Greasy Rags
3	Work Clothes—Heavy Soil	8	Multi-flush
4	Bed/Bath Linen	9	Stain Soak
5	Wipes/Kitchen	10	Quick Wash
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

**Table 11: Gear Guardian Formulas**

<b>Formula Number</b>	<b>Application</b>	<b>Formula Number</b>	<b>Application</b>
1	Light Soil Turnouts	6	Brush Gear
2	Heavy Soil Turnouts	7	Hoods and Suspenders
3	Moisture Barriers	8	Truck Towels
4	Breathable Vapor Barriers	9	Stationwear
5	Oil-contaminated Gear	10	Sheets and Pillowcases

— End of BICJUP11 —

### 3. How to Use the E-P Plus® Formula Tables

Each standard E-P Plus® formula is described in tabular form 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 12](#) 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. Sample Formula Table

Table 12: Sample Laundry Partial Formula: Example Only

Decision																						Chem. Dose
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	4	0	1	0																		

#### 3.2. Definitions of Step Decision Symbols

##### 3.2.1. T = Type of Step

**0 = End Formula**—always the **last step** in a formula; signifies that there are no further steps and prompts programmer for step decision *E = How to End Formula*

**1 = One-way Wash**—basket rotates in **one direction only** throughout this step; used for small goods

**2 = Two-way Wash**—basket **reverses** rotation periodically throughout this step; used for goods which might tangle

**3 = Soak Wash**—basket is **stationary** throughout this step; drastically reduces mechanical action

**4 = Intermediate Extract**—the **slowest extract** speed; usually used between bath steps

**5 = Intermediate or Final Extract**—depending on machine model, this step type may be either a **faster intermediate extract or a final extract**, as is used at the end of a formula. This type of step is not available on TxJ models.

**6 = Final Extract**—only available on models with three extract speeds, this is the step type usually used **to eliminate the maximum amount of water** from the goods. This type of step is not available on TxJ models.

##### 3.2.2. MMQ = Step Duration—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 1:** 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.

**3.2.3. FFF or CCC = Commanded Bath Temperature (Optional)**—This decision is available only if the machine is equipped with and configured for optional temperature control.

**FFF or CCC—commanded temperature** in degrees Fahrenheit or Celsius; depends on how machine is configured

**050°F/010°C—minimum** temperature in any bath

**205°F/095°C—maximum** temperature in any bath

**3.2.4. H = Hot Water Valve**

**0—hot water valve off**

**1—hot water valve on**

**2—hot water valve on to raise temperature** of filling water

**3—response not allowed**

**3.2.5. C = Cold Water Valve**

**0—cold water valve off**

**1—cold water valve on**

**2—response not allowed**

**3—cold water valve on to lower temperature** of filling water

**3.2.6. 3 = Third Water Valve (Optional)**—This decision is available only if the machine is equipped with and configured for optional third water valve.

**0—third water valve off**

**1—third water valve on**

**2—third water valve on to raise temperature** of filling water

**3—third water valve on to lower temperature** of filling water

**3.2.7. L = Bath Level**

**1—low bath level**

**2—high bath level**

**3.2.8. S = Steam (Optional)**—This decision is available only if the machine is equipped with and configured for steam.

**1—Start steaming after** level is achieved, subsequent steaming **allowed**; timer **runs**.

**2—Start steaming after** level is achieved, subsequent steaming **not allowed**; timer **stops** until temperature is achieved.

**3—Start steaming after** level is achieved, subsequent steaming **allowed**; timer **stops** until temperature is achieved.

**4—Start steaming before** level is achieved, subsequent steaming **allowed**; timer **runs**.

**5—Start steaming before** level is achieved, subsequent steaming **not allowed**; timer **stops** until temperature is achieved.



**6**—Start steaming **before** level is achieved, subsequent steaming **allowed**; timer **stops** until temperature is achieved.

**3.2.9. C = Chemicals**—There may be more than one chemical decision per step because multiple chemicals may be added to a single bath. The maximum number of chemicals that may be injected per bath may be either two or five, depending on machine model and software version.

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.

**0**—no chemical injection commanded

**1**—inject chemical 1, usually **alkali** for QxJ and 36-inch or larger VxJ models; **detergent** for other models

**2**—inject chemical 2, usually **detergent** for QxJ and 36-inch or larger VxJ models; **bleach** for other models

**3**—inject chemical 3, usually **bleach** for QxJ and 36-inch or larger VxJ models; **sour** for other models

**4**—inject chemical 4, usually **softener** for all models

**5**—inject chemical 5, usually **starch** for all models; also used to signal that a ChemSave machine desires to inject chemical

**3.2.10. W = When to Inject Chemicals**—At what point in the step is this chemical to be injected?

**0**—Begin injecting the chemical **when the water valves open**.

**1**—Begin injecting the chemical when the commanded **bath level is achieved**.

**2**—Begin injecting the chemical when the commanded **bath level and temperature are achieved**. This option is available only with steam codes of 2, 3, 5, or 6 programmed.

**3.2.11. SS = Chemical Injection Duration**—How long should the chemical injection continue?

**00**—0 seconds; chemical injection prohibited

**40**—40 seconds; default value

**B9**—119 seconds (see [Table 13](#))

**Q5**—255 seconds; maximum value

**Table 13: Codes for Inject Times of 100 Seconds and Longer**

Alphabetic Code	Value	Alphabetic Code	Value	Alphabetic Code	Value	Alphabetic Code	Value
A	100	E	140	I	180	M	220
B	110	F	150	J	190	N	230
C	120	G	160	K	200	P	240
D	130	H	170	L	210	Q	250

**3.2.12. \* = Signal with Chemical Injection**—Should the machine operator be notified when this chemical injection is desired?

**0**—**No**. The chemical injection occurs automatically without operator notification or intervention.

**1**—**Yes**. The machine will signal the operator when this chemical injection is desired. The operator must cancel the signal by pressing ☒ or ☐ before the injection will occur.

**3.2.13. SPD = Wash Speed**—Should this step employ normal wash speed or high wash speed?

**0**—This is wash speed 2. This **higher wash speed** decreases mechanical action by reducing the distance the goods are dropped.

**1**—This is wash speed 1, the **normal wash speed**. This speed is the default value for factory-supplied formulas and new bath steps.

**3.2.14. D = Drain Action**—What type of drain action is desired for this step?

**0**—**Standard drain speed**; cylinder turns clockwise at drain/distribution speed.

**1**—**Two-way wash speed**; cylinder reverses at wash speed for additional mechanical action during draining.

**2**—**Do not drain**; bath liquor is retained, as for the injection of additional chemicals or for baths longer than the control will allow in a single step.

**3**—**Stop with fill**. The cylinder does not turn while filling prior to this drain, but turns at standard drain speed during draining.

**4**—**Stop with drain**. The cylinder does not turn during draining.

**5**—**Stop with fill and drain**. The cylinder is held stationary during both fill and drain.

**6**—**RinSave™** The cylinder turns clockwise at approximately 1G with the drain closed for a fixed time. At the end of that time, the drain opens. After a fixed time at drain/distribution speed with the drain open, the cylinder accelerates to RinSave™ speed. **This drain action is available only on machines with RinSave™ software; this drain action is replaced by the standard drain speed on other machines.**

**3.2.15. R = Drain Destination (Optional)**

**0**—Drain this bath to the **sewer**.

**1**—If machine is equipped with an optional second drain, this selection allows draining this bath to an **optional reuse tank**.

**3.2.16. E = How to End Formula**—How should this formula end?

**0**—Stop and require operator to cancel signal

**1**—Reversing at wash speed and require operator to end formula

**2**—Rotating at wash speed and require the operator to end the formula

**3**—Tumble at wash speed for two minutes, then sound signal

**4**—Stop and sound operator signal for two minutes, then shut off; available only with software dated 9B005 or later.

**5**—Reverse at wash speed with signal sounding for two minutes, then shut off; available only with software dated 9B005 or later.

**6**—Rotate at drain speed for two minutes with signal, then shut off; available only with software dated 9B005 or later.

**7**—Tumble for two minutes, then tumble with signal for two minutes, then shut off; available only with software dated 9B005 or later.





BICJUP15 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 4. RinSave™ Athletic Laundry Formulas

Table 14: Athletic Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 15: Athletic Formula 02: Towels

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	8	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 16: Athletic Formula 03: Athletic Uniforms**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	1		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	7	0	0	0	0	1	1		1		1	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	0	1		2		0					1	0			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
6	5	0	4	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 17: Athletic Formula 04: Socks and T-shirts**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	5	0	0	0	0	1	0		1		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 18: Athletic Formula 05: Floor Mops

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	2	0	0	0	0	0	1		2		0					1	0			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 19: Athletic Formula 06: Light Soil

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
5	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 20: Athletic Formula 07: Cold Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	0	1		2		0					1	0			
2	2	0	7	0	0	0	0	0	1		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	0	1		2		0					1	0			
4	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
5	0																					

**Table 21: Athletic Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

**Table 22: Athletic Formula 09: Stain Soak**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	1	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					



Table 23: Athletic Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP15 —



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## 5. RinSave™ Correctional Laundry Formulas

Table 24: Correctional Laundry Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 25: Correctional Laundry Formula 02: Personal Clothing (White)

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

**Table 26: Correctional Laundry Formula 03: Bed Linen/Towels**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 27: Correctional Laundry Formula 04: Uniforms**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	8	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 28: Correctional Laundry Formula 05: Blankets**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	1		1		1	0	4	0	0	1	6			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
4	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
5	0																					

**Table 29: Correctional Laundry Formula 06: Personal Clothing (Color)**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
5	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

**Table 30: Correctional Laundry Formula 07: Infirmary**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
7	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 31: Correctional Laundry Formula 08: Food Service/Aprons/Wipes/Mops**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0											0										

**Table 32: Correctional Laundry Formula 09: Stain Soak**

Decision																							
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose	
1	2	0	0	1	0	0	0	1	1		1		0					1	2				
2	2	2	5	0	0	0	0	1	1		1		0					1	6				
3	2	0	2	0	0	0	0	1	1		2		0					1	0				
4	4	0	1	0																			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0	0						
6	5	0	6	0																	0		
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																							
7	0																						

Table 33: Correctional Laundry Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP16 —





BICJUP17 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 6. RinSave™ Hotel-Motel Laundry Formulas

Table 34: Hotel-Motel Formula 01: Standard Wash

Decision																							
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose	
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6				
													2	0	4	0	0						
2	2	0	1	0	0	0	0	1	1		2		0					1	0				
3	4	0	1	0																			
4	2	0	3	0	0	0	0	1		1			3	0	4	0	0	1	0				
													4	0	4	0	0						
5	5	0	6	0																	0		
6	0																						

Table 35: Hotel-Motel Formula 02: Sheets

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

**Table 36: Hotel-Motel Formula 03: Pillowcases**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 37: Hotel-Motel Formula 04: Towels and Uniforms**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	8	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 38: Hotel-Motel Formula 05: Bedspreads and Blankets**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	1		1		1	0	4	0	0	1	6			
2	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
3	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
4	0																					

Table 39: Hotel-Motel Formula 06: Colored Table Linens

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0						0			
4	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
5	5	0	3	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 40: Hotel-Motel Formula 07: White Table Linens and Kitchen

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
7	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 41: Hotel-Motel Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

**Table 42: Hotel-Motel Formula 09: Stain Soak**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	1	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 43: Hotel-Motel Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
5	5	0	5	0									4	0	4	0	0				0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP17 —



BICJUP18 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 7. RinSave™ Healthcare Laundry Formulas

Table 44: Healthcare Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 45: Healthcare Formula 02: Sheets

Table 10: TxJ Model Parameters - Format: GPR Sheets																						
Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																		
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 46: Healthcare Formula 03: Pillowcases**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0		0	
													4	0	4	0	0					
7	5	0	6	0																		
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 47: Healthcare Formula 04: Towels and Personal Work**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		1		0					1	0			
2	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	4	0	1	0																		
7	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
8	5	0	8	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					



Table 48: Healthcare Formula 05: Pads and Diapers

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	4	0	1	0																		
7	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
8	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					

Table 49: Healthcare Formula 06: Sheepskins and Cubicle Curtains

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	0	1		2		0					1	0			
2	2	0	7	0	0	0	0	1	1		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	0	1		2		0					1	0			
4	2	0	2	0	0	0	0	0	1		2		0					1	0			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 50: Healthcare Formula 07: White Table Linens and Kitchen**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	1	2	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	2	0	0	0	0	1	0		2		0					1	0			
5	2	1	2	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

**Table 51: Healthcare Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

Table 52: Healthcare Formula 09: Stain Soak

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	1	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0						0
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 53: Healthcare Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	5	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP18 —



BICJUP19 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 8. RinSave™ Restaurant Laundry Formulas

Table 54: Restaurant Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 55: Restaurant Formula 02: Colored Table Linen

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
5	5	0	3	0																		
6	5	0	1	2																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 56: Restaurant Formula 03: Table Linen and Aprons**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	9	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
3	2	0	8	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
7	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 57: Restaurant Formula 04: Wipes**

Decision																						
Step No.	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

Table 58: Restaurant Formula 05: Stain Treatment

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	8	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
7	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 59: Restaurant Formula 06: Hand Towels and Uniforms

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 60: Restaurant Formula 07: Floor Mops**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	2	0	0	0	0	0	1		2		0					1	0			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 61: Restaurant Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					



Table 62: Restaurant Formula 09: Stain Soak

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	0	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0						0
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 63: Restaurant Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S#	C	W	S	S	*	SPD	D	R#	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP19 —



BICJUP20 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 9. RinSave™ Shirt Laundry Formulas

Table 64: Shirt Laundry Formula 01: Starch/Extract Only

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	0	1		1		5	0	4	0	0	1	0			
2	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
3	0																					

Table 65: Shirt Laundry Formula 02: White (Starch)

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 66: Shirt Laundry Formula 03: Colored (Starch)

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	2	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	7	0	0	0	0	1	1		1		3	0	4	0	0	1	0			
													5	0	4	0	0					
5	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

**Table 67: Shirt Laundry Formula 04: White (No Starch)**

Decision																						
Step No.	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	7	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

**Table 68: Shirt Laundry Formula 05: Colored (No Starch)**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 69: Shirt Laundry Formula 06: Delicates

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	5	0	0	0	0	1	1		2		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	2	0	2	0	0	0	0	0	1		2		0					1	0			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	3	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 70: Shirt Laundry Formula 07: Stain Treatment

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	2	0	0	0	0	1	0		2		0					1	0			
5	2	0	2	0	0	0	0	1	0		2		2	0	4	0	0	1	0			
6	4	0	1	0														1	0			
7	2	0	2	0	0	0	0	1	1		2		0					1	0			
8	4	0	1	0														1	0			
9	2	0	4	0	0	0	0	0	1		2		3	0	4	0	0	1	0			
													4	0	4	0	0					
10	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
11	0																					

Table 71: Shirt Laundry Formula 08: Oxygen Bleach

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	3	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	2	0	2	0	0	0	0	0	1		2		0					1	0			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 72: Shirt Laundry Formula 09: Stain Soak

Decision																							
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose	
1	2	0	0	1	0	0	0	1	1		1		0					1	2				
2	3	2	5	0	0	0	0	1	1		1		0					1	6				
3	2	0	2	0	0	0	0	1	1		2		0					1	0				
4	4	0	1	0																			
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0	0						
6	5	0	6	0																	0		
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																							
7	0																						

Table 73: Shirt Laundry Formula 10: Extract

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	1	0	0	0	0	1	1		2		0					1	0			
2	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
3	0																					

BICJUP21 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 10. RinSave™ Commercial Laundry Formulas

Table 74: Commercial Laundry Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
3	2	0	1	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 75: Commercial Laundry Formula 02: Light Soil—White

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 76: Commercial Laundry Formula 03: Light Soil—Colored**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	4	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0						
5	5	0	3	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

**Table 77: Commercial Laundry Formula 04: Medium Soil—White**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					



Table 78: Commercial Laundry Formula 05: Medium Soil—Colored

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
2	2	0	7	0	0	0	0	1	0		2		0					1	0			
3	4	0	1	0																		
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 79: Commercial Laundry Formula 06: Heavy Soil—White

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	2	0	2	0	0	0	0	0	1		2		0					1	0			
7	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
8	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					

**Table 80: Commercial Laundry Formula 07: Heavy Soil—Colored**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
4	2	0	7	0	0	0	0	1	0		1		0					1	0			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	2	0	2	0	0	0	0	0	1		2		0					1	0			
7	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
8	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					

**Table 81: Commercial Laundry Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

Table 82: Commercial Laundry Formula 09: Stain Soak

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	1	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 83: Commercial Laundry Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP21 —



BICJUP22 (Published) Book specs- Dates: 20150623 / 20150623 / 20150623 Lang: ENG01 Applic: CJU

## 11. RinSave™ Offshore Laundry Formulas

Table 84: Offshore Laundry Formula 01: Standard Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 85: Offshore Laundry Formula 02: Personal Work

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 86: Offshore Laundry Formula 03: Work Clothes—Heavy Soil**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	1	0	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
4	2	0	7	0	0	0	0	1	0		1		0					1	0			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	2	0	2	0	0	0	0	0	1		2		0					1	0			
7	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
8	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					

**Table 87: Offshore Laundry Formula 04: Bed/Bath Linen**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
4	2	0	2	0	0	0	0	1	1		2		0					1	0			
5	4	0	1	0																		
6	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 88: Offshore Laundry Formula 05: Wipes/Kitchen

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
4	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

Table 89: Offshore Laundry Formula 06: Floor Mops

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

**Table 90: Offshore Laundry Formula 07: Greasy Rags**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
2	2	0	2	0	0	0	0	1	0		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
5	2	0	2	0	0	0	0	1	1		2		0					1	0			
6	4	0	1	0																		
7	2	0	2	0	0	0	0	0	1		2		0					1	0			
8	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
9	0																					

**Table 91: Offshore Laundry Formula 08: Multi-Flush**

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	2	0	0	0	0	1	1		2		0					1	0			
2	2	0	2	0	0	0	0	1	1		2		0					1	0			
3	2	0	2	0	0	0	0	1	0		2		0					1	0			
4	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0	1	0			
5	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0	1	6			
6	2	0	2	0	0	0	0	1	1		2		0					1	0			
7	4	0	1	0																		
8	2	0	4	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					



Table 92: Offshore Laundry Formula 09: Stain Soak

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	0	1	0	0	0	1	1		1		0					1	2			
2	3	2	5	0	0	0	0	1	1		1		0					1	6			
3	2	0	2	0	0	0	0	1	1		2		0					1	0			
4	4	0	1	0																		
5	2	0	4	0	0	0	0	1		1		3	0	4	0	0	1	0				
													4	0	4	0						0
6	5	0	6	0																	0	
<b>Note:</b> Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
7	0																					

Table 93: Offshore Laundry Formula 10: Quick Wash

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0	1	6			
													2	0	4	0	0					
2	2	0	1	0	0	0	0	1	1		2		0					1	0			
3	4	0	1	0																		
4	2	0	3	0	0	0	0	0	1		1		3	0	4	0	0	1	0			
													4	0	4	0	0					
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

— End of BICJUP22 —



## 12. Gear Guardian® Formulas

### Supplement 1

#### About the Double Extract Step

The double extract step in current E-P Plus® software provides improved extraction of goods that tend to hold water. Such items include moisture barriers and other goods that do not allow water to pass through them. Double extract is available in version 2300F or higher of software WUV7J1B, and in version 2200V and higher of software WUH7JA.

A double extract occurs if the machine is configured for Gear Guardian® formulas and an intermediate extract is programmed (step type=5). The machine runs at intermediate extract speed for 150 seconds before performing a software recycle, as if the vibration switch tripped.

Table 94: Formula 01--Light Soil Turnouts

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	2	0	0	0	0	1	1		2		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	1	1		2		0						3			
5	4	0	1	0																		
6	2	0	1	0	0	0	0	0	1		2		0						3			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 95: Formula 02--Heavy Soil Turnouts

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	2	0	0	0	0	1	0		2		0						3			
3	2	0	7	0	0	0	0	1	0		1		2	0	4	0	0		3			
4	2	0	1	0	0	0	0	1	1		2		0						3			
5	4	0	1	0																		
6	2	0	1	0	0	0	0	1	1		2		0						3			
7	4	0	1	0																		
8	2	0	1	0	0	0	0	0	2		2		0						3			
9	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
10	0																					

Table 96: Formula 03--Light Soil Moisture Barriers

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	1	0	0	0	0	1	1		2		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	0	1		2		0						3			
5	5	0	4	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 97: Formula 04--Heavy Soil Moisture Barriers

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	5	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	1	0	0	0	0	1	1		2		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	0	1		2		0						3			
5	5	0	5	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
6	0																					

Table 98: Formula 05--Oil-contaminated Gear

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	1	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	3	1	5	0	0	0	0	1	0		1		0						3			
3	2	0	2	0	0	0	0	1	0		2		0						3			
4	2	0	7	0	0	0	0	1	1		1		2	0	4	0	0		3			
5	2	0	1	0	0	0	0	1	1		2		0						3			
6	4	0	1	0																		
7	2	0	1	0	0	0	0	1	1		2		0						3			
8	4	0	1	0																		
9	2	0	1	0	0	0	0	1	1		2		0						3			
10	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
11	0																					

Table 99: Formula 06--Brush Gear

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	2	0	0	0	0	1	1		2		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	1	1		2		0						3			
5	4	0	1	0																		
6	2	0	1	0	0	0	0	0	1		2		0						3			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 100: Formula 07--Hoods and Suspenders

Decision																							
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose	
1	2	0	6	0	0	0	0	1	0		1		1	0	4	0	0		3				
2	2	0	1	0	0	0	0	1	1		2		0						3				
3	4	0	1	0																			
4	2	0	1	0	0	0	0	1	1		2		0						3				
5	4	0	1	0																			
6	2	0	1	0	0	0	0	0	1		2		0						3				
7	5	0	5	0																	0		
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																							
8	0																						

Table 101: Formula 08--Wash Out - no goods

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		2		1	0	4	0	0		3			
2	2	0	3	0	0	0	0	1	0		2		0						3			
3	2	0	3	0	0	0	0	1	0		2		0						0			
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
4	0																					

Table 102: Formula 09--Stationwear

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	8	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	4	0	0	0	0	1	1		1		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	1	1		2		0						3			
5	4	0	1	0																		
6	2	0	1	0	0	0	0	0	1		2		0						3			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

Table 103: Formula 10--Linens

Decision																						
Step Number	T	M	M	Q	F	F	F	H	C	3	L	S	C	W	S	S	*	SPD	D	R	E	Chem. Dose
1	2	0	7	0	0	0	0	1	0		1		1	0	4	0	0		3			
2	2	0	1	0	0	0	0	1	0		2		0						3			
3	4	0	1	0																		
4	2	0	1	0	0	0	0	1	1		2		0						3			
5	4	0	1	0																		
6	2	0	1	0	0	0	0	1	1		2		0						3			
7	5	0	6	0																	0	
Note: Because TxJ models are equipped with a single extract speed, all extract steps in TxJ models are programmed "T=4."																						
8	0																					

— End of BICJUP10 —