

# The Company Leader

Leadership Lessons from the Tactical Level of War

The  
Company  
Leader



## CAVLOG

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### Logistics Planning at the Troop and Squadron-level

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# Product Overview



CAVLOG is an excel based YELLOW 1 tracking system that enables streamlined digital collection and analysis of YELLOW 1 reports sent up via JCR. CAVLOG will be utilized by the S4 in compiling squadron level logistics requirements and providing a more quantifiable logistics picture from battlefield reports.

## CAPABILITIES

- Logging and tracking of troop level reports in an organized coherent manner
- Providing an instant 72hr logistics picture based on current consumption rates against planned operations tempos
- Providing an instant rollup of squadron logistical requirements for quick reporting to higher headquarters
- Maintaining an internal log of reports over time to facilitate further updates and refinements

## LIMITATIONS

- Forecasting limited to Class I and III at present, additional functionality and tracking of other supply classes can be built in
- Forecasting model is based on assumed ratio increases and limited to 3 potential mission sets, the tool is not intended to replace logistics analysis or input from the S4, instead it provides an instant snapshot which can be built upon.

# Yellow 1 Report Tracking



	A TRP	B TRP	C TRP	E 23	MITR	FSC	HHT
Ration Cycle Next 24	AMA	AMA	AMA	AMA	AMA	AMA	AMA
MREs (BOXES) OH	17	20	35	48		314	60
MREs Consumed Last 24	5	7	4	3		0	0
MREs Required	5	7	4	3		0	0
Water (Gal) OH	490	135	590	130		400	750
Water Cap	685	145	590	130		400	800
Ice (lbs) OH	0	0	0	0		0	
Ice Cooler Cap	0	0	0	0		0	
Equipment Fuel (Gal) OH	716	700	797	620		6000	400
Equipment Fuel Cap	976	720	797	625		6300	450
Fuel Can (Gal) OH	160	230	240	380		200	200
Fuel Can Cap	445	275	280	405		250	250
POL Req. OH							
POL Req. UBL							
MISC REQ/NOTES							

NOTE\* BUFFALO NOT USED

User enters values based on JCR reports, the information here mirrors the YELLOW 1 reporting requirements already distributed to the XO's.



# Forecasting Tool



	A TRP Current	A TRP NEXT 24	A TRP NEXT 48	A TRP NEXT 72	B TRP Current	B TRP NEXT 24	B TRP NEXT 48	B TRP NEXT 72	C TRP Current	C TRP NEXT 24	C TRP NEXT 48	C TRP NEXT 72	E 23 Current	E 23 NEXT 24	E 23 NEXT 48	E 23 NEXT 72
MREs (BOXES) OH	17	12	7	2.00	20	13	6	-1.00	35	31	27	23.00	48	45	42	33.00
MREs Consumed Last 24	5				7				4				3			
Water (Gal) OH	490	295.00	100.00	-95.00	135	125.00	115.00	105.00	590	590.00	590.00	590.00	130	130.00	130.00	130.00
Water Cap	685				145				590				130			
Ice (lbs) OH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ice Cooler Cap	0				0				0				0			
Equipment Fuel (Gal) OH	716	456	196	-64.00	700	680	660	640.00	797	797	797	797.00	620	615	610	605.00
Equipment Fuel Cap	976				720				797				625			
Fuel Can (Gal) OH	160	-125	-410	-695.00	230	185	140	95.00	240	200	160	120.00	380	355	330	305.00
Fuel Can Cap	445				275				280				405			
DELTA MRE	5	5	5	5.00	7	7	7	7.00	4	4	4	4.00	3	3	3	3.00
DELTA Water	195	195.00	195.00	195.00	10	10.00	10.00	10.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
DELTA VIC Fuel	260	260	260	260.00	20	20	20	20.00	0	0	0	0.00	5	5	5	5.00
DELTA CAN Fuel	285	285	285	285.00	45	45	45	45.00	40	40	40	40.00	25	25	25	25.00
DELTA ICE	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00	0	0	0	0.00
OPTEMPO CHANGE:	NEUTRAL	NO CHANGE	NO CHANGE	NO CHANGE	NEUTRAL	NO CHANGE	NO CHANGE	NO CHANGE	NEUTRAL	NO CHANGE	NO CHANGE	NO CHANGE	NEUTRAL	NO CHANGE	NO CHANGE	NO CHANGE

Provides immediate 72hr logistics projections for the 4 Maneuver elements

User selects changes in operations tempo as they are planned over the next 72hrs, values populate and projections are calculated automatically

	A TRP Current	A TRP NEXT 24	A TRP NEXT 48	A TRP NEXT 72
MREs (BOXES) OH	17	12	7	2.00
MREs Consumed Last 24	5			
Water (Gal) OH	490	295.00	100.00	-95.00
Water Cap	685			
Ice (lbs) OH	0	0	0	0
Ice Cooler Cap	0			
Equipment Fuel (Gal) OH	716	456	196	-64.00
Equipment Fuel Cap	976			
Fuel Can (Gal) OH	160	-125	-410	-695.00
Fuel Can Cap	445			
DELTA MRE	5	5	5	5.00
DELTA Water	195	195.00	195.00	195.00
DELTA VIC Fuel	260	260	260	260.00
DELTA CAN Fuel	285	285	285	285.00
DELTA ICE	0	0	0	0.00
OPTEMPO CHANGE:	NEUTRAL	NO CHANGE	NO CHANGE	NO CHANGE

NO CHANGE

NEUTRAL -> RECON

NEUTRAL -> SECURITY

RECON -> NEUTRAL

RECON -> SECURITY

SECURITY -> NEUTRAL

SECURITY -> RECON



# Squadron Roll-Up



	CURRENT	24 HOURS	48 HOURS	72 HOURS
MREs (BOXES) OH	494	475	456	437.00
MREs Consumed Last 24	19			
Water (Gal) OH	2495	2240	1985	1730.00
Water Cap	2750			
Ice (lbs) OH	0	0	0	0.00
Ice Cooler Cap	0			
Equipment Fuel (Gal) OH	9233	8598	7963	7328
Equipment Fuel Cap	9868			
Fuel Can (Gal) OH	1410	915	420	-75
Fuel Can Cap	1905			
DELTA MRE	19			
DELTA WATER	255			
DELTA VIC FUEL	635			
DELTA CAN FUEL	495			
DELTA ICE	0			

System automatically compiles supply numbers for the Squadron onto one page, providing a rapid and accurate rollup for reporting to higher




# Historical Data



Entry #	DTG		A TRP										B TRP									
	TIME	DATE	OPTEMPC	MRE OH	ΔMRE	WAT OH	ΔWAT	VFUEL OH	ΔVFUEL	CFUEL OH	ΔCFUEL	OPTEMPC	MRE OH	ΔMRE	WAT OH	ΔWAT	VFUEL OH	ΔVFUEL	CFUEL OH	ΔCFUEL	OPTEMPC	
Current	13:29	22-Jan-2016	NEUTRAL	17	5	490	195	716	260	160	285	NEUTRAL	20	7	135	10	700	20	230	45	NE	
NOTE: to save current data, select column B3 through AM3, right click, copy, select first open row in table below by clicking in the B column box, right click, select paste options: values, save file.																						
1	12:49	22-Jan-2016	NEUTRAL	17	5	490	195	716	260	160	285	NEUTRAL	20	7	135	10	700	20	230	45	NE	
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Uses a simple copy paste system to enable the user to maintain a running log of consumption rates based on OPTEMPO. This will allow future builds to use more accurate baseline values for projections

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# Future Plans



Future versions of CAVLOG will seek to further meet the commanders intent and more accurately fulfill the needs of logistics reporting in a complex battlefield environment.

## Proposed Ideas

- Include a UBL page, listing all classes of supply and there respective UBL, thereby enabling a color coded (GREEN, AMBER, RED) system to be implemented as classes of supply drop, or are forecasted to drop below certain thresholds
- Include a larger selection of possible OPTEMPOs
- Include Class V by DODAC
- Utilize more accurate base consumption values as data on real world use is collected, analyzed and applied.



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