

First TUFMAN Training Workshop (TTW-1)
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Session 10

TUFMAN VDS Management Module

What it does and doesn't do

The TUFMAN VDS Management Module is a basic VDS system designed to help you manage purse seine vessel days. It is not designed to replace the online PNA system and should be used in conjunction with that system, the main advantage of the TUFMAN VDS module is that it is stored locally on your network and is linked to the rest of your TUFMAN data.

What it does

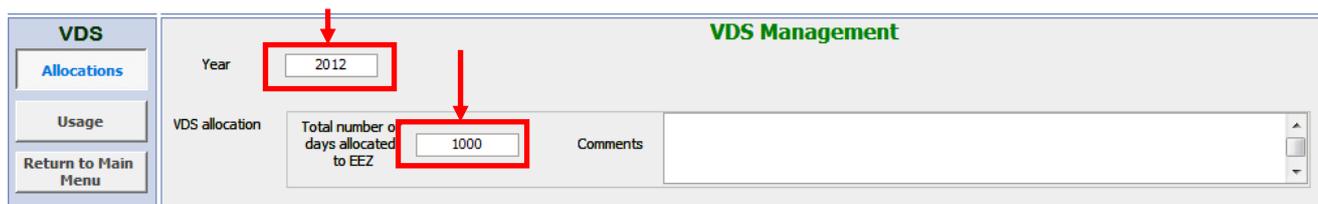
- Allows you to assign vessel days to companies, via agreements.
- Allows you to view the vessel days assigned to your country and how they have been distributed among companies
- Allows you to view the days used by agreement, company, and /or vessel
- Provides a number of flexible reports
- Uses processed VMS data, provided by SPC, for calculating days used

What it doesn't do

- Doesn't allow you to enter non-fishing days
- Doesn't use live VMS data
- Doesn't connect to the PNA system
- Doesn't manage days for gears other than purse seine

Allocations

'Allocations' is the term we use to describe the number of vessel days that can be fished in your countries EEZ for a year, or the total number of days allocated to your EEZ for the year. The allocations for the VDS module are accessed by going to 'VDS Management->Allocations' from the TUFMAN main menu. You can view different years, or add new years, by changing the 'Year' box on the top of the allocations screen. To assign the allocated number of days for the year, simply enter the number of days into the 'Total number of days allocated to EEZ' box.



The screenshot shows the 'VDS Management' interface. On the left is a sidebar with 'VDS' and 'Allocations' selected. The main area has a 'Year' dropdown set to '2012' and a 'Total number of days allocated to EEZ' input field set to '1000'. A 'Comments' text area is also visible. Red boxes and arrows highlight the 'Year' and 'Total number of days allocated to EEZ' fields.

Distributions

'Distributions' is the term we use to describe how the number of days have been assigned, or distributed, to the companies and agreements fishing in your EEZ. So in theory the total number of days distributed should equal the number of days allocated to your EEZ, unless you go over or under your allocation.

The distributions are viewed and edited on the same screen as the allocations. To enter a new distribution you add a new line under 'VDS distributions'. Distributions are done by agreement, so you first select the company, then the agreement, and enter the number of days that have been allocated to the company for the year. Note in the example below that there are 2 distributions totalling 250 days, so quite a lot below the 1000 days available for the year.

In some cases a company may have 2 agreements active during the year, for example if Agreement1 expired 30-June-2012, and Agreement2 ran from 1-July-2012 to 30-Jun-2013. In this case you would have to enter 2 distributions for the company, one for Agreement1 and one for Agreement2, and you would have to apportion the correct number of days to each agreement (but this should be easy since management will have done this already).

VDS Management

Year: 2012

VDS allocation: Total number of days allocated to EEZ: 1000

VDS distribution:

Company	Agreement	Number of EEZ days	Comments
JP Company 25	FMO001	100	
CN Company 6	CHM005	150	
Total		250	

Usage

The VDS Management module has an interactive interface for usage, which allows you to view distributions and usage in a number of ways and also to produce reports and graphs. The screenshot below shows the options available for this, with a combination of filters and option selections:

VDS Usage

Forecasting method: None

Year: 2012

Company: [Dropdown]

Agreement: [Dropdown]

Licensed: All

Year Month

Company Agreement Vessel Cumulative

Produce Report

Apply filter

Reset Filter

- **Forecasting method** – For the year in progress you can have the system forecast usage to the end of the year. There are 2 forecasting methods:
 - Linear for the current year
 - Historical – Monthly trend
 - Note that the forecasts generally work better later in the year.
- **Year** – filters the data shown by year. Can be left blank to show all years.
- **Company** – filters the data for a specific company, or leave blank for all companies.
- **Agreement** – filters the data for a specific agreement, or leave blank for all agreements.
- **Licensed** – filters the data for data linked to a license, not linked to a license, or all.
- **Year checkbox** – If checked then the data shown will include a ‘year’ column
- **Month checkbox** – If checked then the data shown will include a ‘month’ column
- **Company checkbox** – If checked then the data will include a ‘company’ column

- **Agreement checkbox** – If checked then the data shown will include an ‘agreement’ column
- **Vessel checkbox** – If checked then the data will be shown by vessel
- **Cumulative** – For views by month, if checked then the monthly figures will keep adding to the previous month, i.e. it’s a running total for the year. If not checked then it displays the allocation/usage only for that month
- **Apply Filter** – Apply the selections above and refresh the display
- **Produce Report** – For monthly views only, will create an Excel file with a table and charts of the displayed data.

You can select any number of the options above in any combination you like, so this results in many different ways of viewing the data. There is an ‘Export to Excel’ button to export the currently displayed data to Excel. Some examples are shown below. Most reports show the amount for distribution and usage, with a balance column showing the difference between what was allocated and what was used. The exception is for reports by vessel which only show usage, since days are distributed by agreement and not to individual vessels. For all views there are totals at the bottom of the screen. Where usage exceeds distribution, the usage value is highlighted in red.

Usage by year:

VDS Usage										
Forecasting method None		Year 2012		Company Agreement		Licensed All		Year <input checked="" type="checkbox"/> Company <input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Month <input type="checkbox"/> Agreement <input type="checkbox"/> Cumulative <input checked="" type="checkbox"/>		Produce Report <input type="button" value="Apply filter"/> <input type="button" value="Reset Filter"/>
VDS usage summary by year										
Year	Company	Agreement	Vessel	VDS distribution	EEZ days	Balance				
2012	CN Company 3	ALL	ALL	50.0	46.0	4.0				
2012	FM Company 16	ALL	ALL	400.0	329.0	71.0				
2012	FM Company 29	ALL	ALL	70.0	41.0	29.0				
2012	FM Company 33	ALL	ALL	210.0	131.0	79.0				
2012	KR Company 53	ALL	ALL	6,000.0	4,879.0	1,121.0				
2012	No license	ALL	ALL	0.0	925.0	-925.0				
2012	PG Company 54	ALL	ALL	100.0	103.0	-3.0				
2012	PG Company 74	ALL	ALL	260.0	151.0	109.0				
2012	TW Company 67	ALL	ALL	1,380.0	1,003.0	377.0				
2012	TW Company 70	ALL	ALL	4,530.0	4,148.0	382.0				
Totals				13,000.0	11,756.0	1,244.0				

Usage by month (cumulative):

Forecasting method		Year		Company		Year		Company		Vessel		Produce Report		Apply filter													
None		2012		Agreement		Licensed		All		<input checked="" type="checkbox"/> Year <input checked="" type="checkbox"/> Month <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative		<input type="checkbox"/> Vessel <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative		<input type="button" value="Produce Report"/> <input type="button" value="Apply filter"/> <input type="button" value="Reset Filter"/>													
VDS usage summary by month																											
Year	Agreement	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Total	
		dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used		
2012	ALL	4	34	8	46	13	46	17	46	21	46	25	46	29	46	33	46	38	46	42	46	46	46	50	46	50	46
2012	ALL	33	31	67	53	100	64	133	84	167	97	200	141	233	196	267	236	300	283	333	329	367	329	400	329	400	329
2012	ALL	6	20	12	41	18	41	23	41	29	41	35	41	41	41	47	41	53	41	58	41	64	41	70	41	70	41
2012	ALL	18	20	35	48	53	64	70	72	88	72	105	75	123	94	140	94	158	125	175	131	193	131	210	131	210	131
2012	ALL	500	542	1,000	974	1,500	1,425	2,000	1,865	2,500	2,347	3,000	2,945	3,500	3,428	4,000	3,931	4,500	4,390	5,000	4,879	5,500	4,879	6,000	4,879	6,000	4,879
2012	ALL	0	122	0	245	0	364	0	481	0	588	0	749	0	806	0	844	0	877	0	925	0	925	0	925	0	925
2012	ALL	8	22	17	40	25	67	33	73	42	103	50	103	58	103	67	103	75	103	83	103	92	103	100	103	100	103
2012	ALL	22	11	43	36	65	53	87	80	108	100	130	122	152	127	173	151	195	151	217	151	238	151	260	151	260	151
2012	ALL	115	97	230	189	345	300	460	363	575	437	690	522	805	626	920	764	1,035	879	1,150	1,003	1,265	1,003	1,380	1,003	1,380	1,003
2012	ALL	378	691	755	1,340	1,133	1,968	1,510	2,577	1,888	3,197	2,285	3,782	2,643	4,096	3,020	4,147	3,398	4,148	3,775	4,148	4,153	4,148	4,530	4,148	4,530	4,148
Totals		1,083	1,590	2,167	3,012	3,250	4,392	4,333	5,682	5,417	7,028	6,500	8,526	7,583	9,563	8,667	10,357	9,750	11,043	10,833	11,756	11,917	11,756	13,000	11,756	13,000	11,756

Usage by vessel (year):

Forecasting method		Year		Company		Year		Company		Vessel		Produce Report	
None		2012		Agreement		Licensed		All		<input checked="" type="checkbox"/> Year <input type="checkbox"/> Month <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative		<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative	
VDS usage summary by year													
Year	Company			Agreement	Vessel	VDS distribution			EEZ days	Balance			
2012	CN Company 3			ALL	CN VESSEL 32775	0.0			46.0	0.0			
2012	FM Company 16			ALL	FM VESSEL 22772	0.0			179.0	0.0			
2012	FM Company 16			ALL	FM VESSEL 22780	0.0			150.0	0.0			
2012	FM Company 29			ALL	SB VESSEL 33176	0.0			41.0	0.0			
2012	FM Company 33			ALL	FM VESSEL 32590	0.0			131.0	0.0			
2012	KR Company 53			ALL	KR VESSEL 16949	0.0			236.0	0.0			
2012	KR Company 53			ALL	KR VESSEL 16956	0.0			194.0	0.0			

Usage by vessel (month):

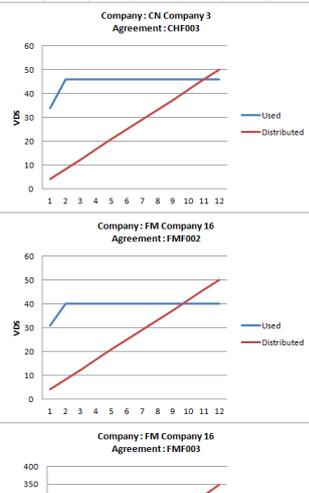
Forecasting method		Year		Company		Year		Company		Vessel		Produce Report				
None		2012		Agreement		Licensed		All		<input checked="" type="checkbox"/> Year <input checked="" type="checkbox"/> Month <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative		<input type="checkbox"/> Vessel <input type="checkbox"/> Agreement <input checked="" type="checkbox"/> Cumulative				
VDS usage summary by month																
Year	Agreement	Vessel		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2012	ALL	CN VESSEL 32775		34.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0
2012	ALL	FM VESSEL 22772		0.0	13.0	11.0	20.0	13.0	16.0	24.0	31.0	24.0	27.0	0.0	0.0	179.0
2012	ALL	FM VESSEL 22780		31.0	9.0	0.0	0.0	0.0	28.0	31.0	9.0	23.0	19.0	0.0	0.0	150.0
2012	ALL	SB VESSEL 33176		20.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0
2012	ALL	FM VESSEL 32590		20.0	28.0	16.0	8.0	0.0	3.0	19.0	0.0	31.0	6.0	0.0	0.0	131.0
2012	ALL	KR VESSEL 16949		21.0	6.0	19.0	27.0	24.0	28.0	28.0	28.0	26.0	29.0	0.0	0.0	236.0
2012	ALL	KR VESSEL 16956		20.0	8.0	0.0	4.0	27.0	29.0	29.0	30.0	28.0	19.0	0.0	0.0	194.0
2012	ALL	KR VESSEL 17491		28.0	11.0	0.0	30.0	28.0	26.0	22.0	30.0	28.0	26.0	0.0	0.0	229.0
2012	ALL	KR VESSEL 17715		0.0	0.0	23.0	20.0	4.0	28.0	26.0	2.0	0.0	5.0	0.0	0.0	108.0
2012	ALL	KR VESSEL 20099		29.0	24.0	7.0	13.0	18.0	16.0	11.0	29.0	29.0	0.0	0.0	0.0	176.0

Report

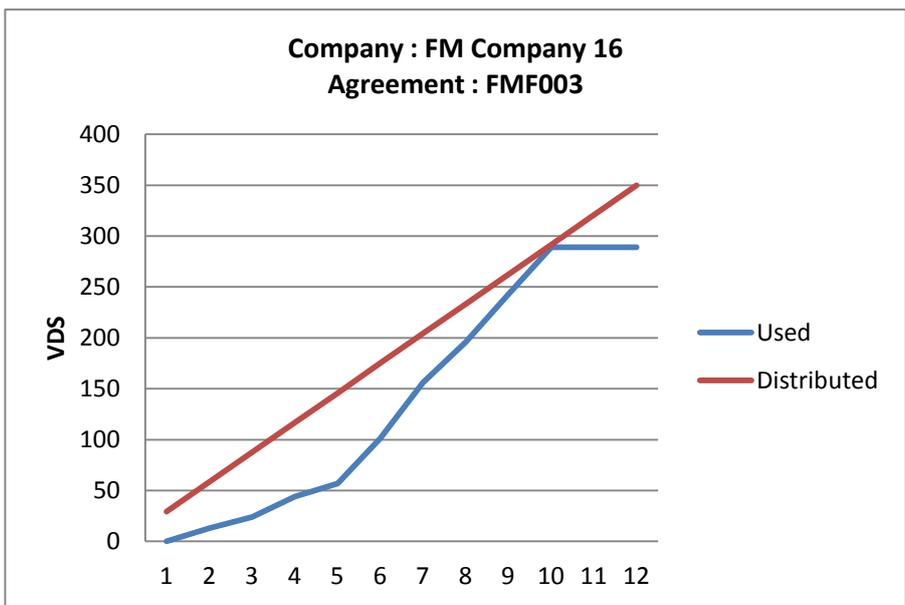
The report is by month, so is only available when the month box is checked. The report is like the main view in that it adapts according to the options that have been selected. Graphs will be shown unless the data is selected by vessel, in which case only a table will be produced.

Here is an example of a report generated for year, month, company, and agreement:

1	vds_year	company	agr_code	jan_alloc	jan_used	feb_alloc	feb_used	mar_alloc	mar_used	apr_alloc	apr_used	may_alloc	may_used	jun_alloc	jun_used	jul_alloc	jul_used	aug_alloc	aug_used	sep_alloc	sep_used	oct_alloc	oct_used	nov_alloc	nov_used	dec_alloc	dec_used	tot_alloc	tot_used
2	2012	CN Comp	CHF003	4.2	34	8.3	46	12.5	46	16.7	46	20.8	46	25	46	29.2	46	33.3	46	37.5	46	41.7	46	45.8	46	50	46	50	46
3	2012	FM Comp	FMF002	4.2	31	8.3	40	12.5	40	16.7	40	20.8	40	25	40	29.2	40	33.3	40	37.5	40	41.7	40	45.8	40	50	40	50	40
4	2012	FM Comp	FMF003	29.2	0	58.3	13	87.5	24	116.7	44	145.8	57	175	101	204.2	156	233.3	196	262.5	243	291.7	289	320.8	289	350	289	350	289
5	2012	FM Comp	FMF005	5.8	20	11.7	41	17.5	41	23.3	41	29.2	41	35	41	40.8	41	46.7	41	52.5	41	58.3	41	64.2	41	70	41	70	41
6	2012	FM Comp	FMY003	0.8	8	1.7	8	2.5	8	3.3	8	4.2	8	5	8	5.8	8	6.7	8	7.5	8	8.3	8	9.2	8	10	8	10	8
7	2012	FM Comp	FMY004	16.7	12	33.3	40	50	56	66.7	64	83.3	64	100	67	116.7	86	133.3	86	150	117	166.7	123	183.3	123	200	123	200	123
8	2012	KR Comp	KRT008	500	542	1000	974	1500	1425	2000	1865	2500	2347	3000	2945	3500	3428	4000	3931	4500	4390	5000	4879	5500	4879	6000	4879	6000	4879
9	2012	No license		0	122	0	245	0	364	0	481	0	588	0	749	0	806	0	844	0	877	0	925	0	925	0	925	0	925
10	2012	PG Comp	NLA001	8.3	22	16.7	40	25	67	33.3	73	41.7	103	50	103	58.3	103	66.7	103	75	103	83.3	103	91.7	103	100	103	100	103
11	2012	PG Comp	VUF001	8.3	11	16.7	36	25	37	33.3	37	41.7	37	50	37	58.3	37	66.7	37	75	37	83.3	37	91.7	37	100	37	100	37
12	2012	PG Comp	VUF002	13.3	0	26.7	0	40	16	53.3	43	66.7	63	80	85	93.3	90	106.7	114	120	114	133.3	114	146.7	114	160	114	160	114
13	2012	TW Comp	TWJ003	52.5	97	105	189	157.5	300	210	363	262.5	437	315	522	367.5	622	420	627	472.5	627	525	627	577.5	627	630	627	630	627
14	2012	TW Comp	TWJ004	62.5	0	125	0	187.5	0	250	0	312.5	0	375	0	437.5	4	500	137	562.5	252	625	376	687.5	376	750	376	750	376
15	2012	TW Comp	TWJ008	2.5	0	5	0	7.5	0	10	11	12.5	31	15	31	17.5	31	20	31	22.5	31	25	31	27.5	31	30	31	30	31
16	2012	TW Comp	TWJ009	375	691	750	1340	1125	1968	1500	2566	1875	3166	2250	3751	2625	4065	3000	4116	3375	4117	3750	4117	4125	4117	4500	4117	4500	4117

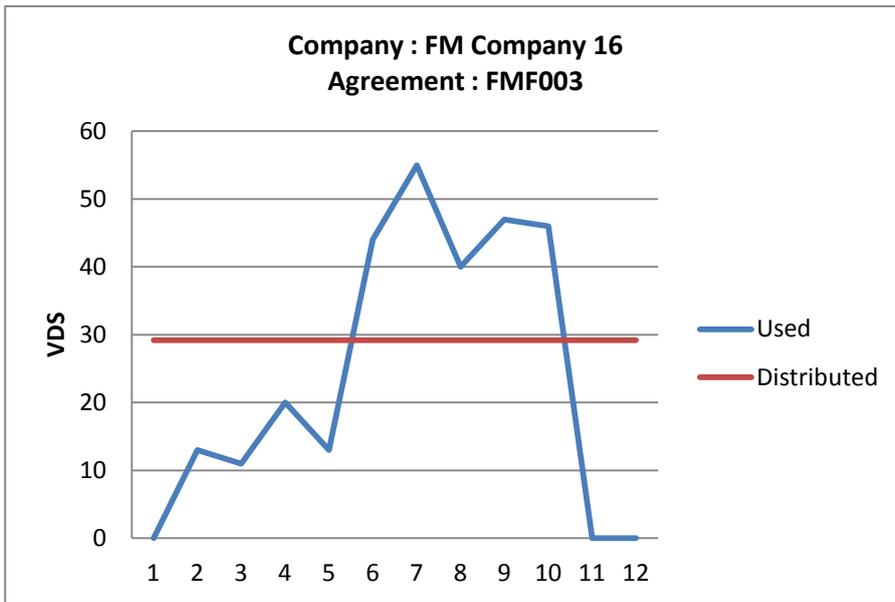


A closer look at one of the charts shows the days distributed and used by month (cumulative) for a particular company/agreement:



There is a chart produced for each company/agreement in main results, and the 'used' plot will include forecasted usage if that option has been selected.

Here is the same chart but with the 'cumulative' option unchecked:



Forecasting

The forecasting function is useful for estimating usage to the end of the year. At present there is one main method for calculating this 'Current year – Linear', which basically calculates a linear trend of usage for the year to date and projects that to the end of the year. This method is most effective later in the year.

The forecast data are shown in the main display (forecast months shown in green), and also on the charts produced in reporting:

Forecasting method		Year	Company	Agreement	Licensed	All	Year	Company	Vessel	Month	Agreement	Cumulative	Produce Report	Apply filter															
Current Year - Linear		2012					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Reset Filter															
VDS forecasting summary by month																													
Year	Company	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Total			
		dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used	dist	used		
2012	CN Company 3	4	34	4	12	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	50	46
2012	FM Company 16	33	31	33	22	33	11	33	20	33	13	33	44	33	55	33	40	33	47	33	46	33	24	33	25	400	378		
2012	FM Company 29	6	20	6	21	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	6	0	70	41		
2012	FM Company 33	18	20	18	28	18	16	18	8	18	0	18	3	18	19	18	0	18	31	18	6	18	6	18	5	210	143		
2012	KR Company 53	500	342	500	432	500	451	500	440	500	482	500	398	500	483	500	303	500	458	500	489	500	45	500	40	6,000	4,964		
2012	No license	0	122	0	123	0	119	0	117	0	107	0	161	0	57	0	38	0	33	0	48	0	0	0	0	0	0	925	
2012	PG Company 54	8	22	8	18	8	27	8	6	8	8	30	8	0	8	0	8	0	8	0	8	0	8	0	8	0	100	103	
2012	PG Company 74	22	11	22	25	22	17	22	27	22	20	22	22	22	5	22	24	22	0	22	0	22	4	22	3	260	158		
2012	TW Company 67	115	97	115	92	115	111	115	63	115	74	115	85	115	104	115	138	115	115	115	124	115	33	115	33	1,380	1,069		
2012	TW Company 70	378	691	378	649	378	628	378	609	378	620	378	585	378	314	378	51	378	1	378	0	378	0	378	0	4,530	4,148		

Company : FM Company 16
Agreement : ALL

