Flow Rate Adjustment Worksheet

Customer Name:
Date:
Product:
Target RateGPA
Planting SpeedMPH
of rows
Optimal Operating PSIPSI
Row SpacingInches
 Set up the Mobile Max to match the customer's planter setup with # of rows, row spacing, and vApply HD module and Flowsense locations.
2. From the Diagnose screen, enter a health check for a liquid product and enter the desired GPA and MPH
Once the pump is running, make sure Actual GPM and Commanded GPM match on 20/20 before continuing.
 Perform bucket test for 1 minute total and compare Ounces Caught vs. Ounces Expected. (It is recommended to repeat this step 3 times and use an average of all tests.) a. Ounces Caughtoz
b. Multiply actual GPM from 20/20GPM X 128=oz expected
If these values match, no flow rate adjustment is needed, continue to orifice sizing steps.
6. Calculate the % difference between caught value and measured value. a. (OZ ExpectedOZ Caught)/OZ Caught x 100=%
7. Enter % Change calculated into the flow rate adjustment page.
vApply HD Flow Rate Adjustment%
Flowsense Flow Rate Adjustment =% x -1=%
Note- It is strongly recommended to run a bucket test (repeated 3 times) with the flow rate adjustment entered to verify accuracy.

Non-HD controlled orifice Verification Worksheet

Customer Name:
Date:
Product
Target RateGPA
Planting SpeedMPH
of rows
Row SpacingInches
Optimal Operating PSIPSI
1. Complete a flow rate adjustment for Flowsense before proceeding.
2. Set up Liquid Max stand to run customer's product through Flow Sense and
orifice body and install charted orifice size.
a. (GPA XMPH XApplication width)/5940=GPM
b. Customer's intended System PressurePSI.
cCharted Orifice Size.
ccharted offfice size.
 From the diagnose page, enter a manual test on Liquid Max and enter targetGPA andMPH in tabs. Use PWM% and bypass on Liquid max to set desired system pressure. Measure actual GPM using Flow SenseGPM
6. Calculate the % difference between actual GPM and desired GPM.
(GPM DesiredGPM Actual)/GPM Actual x 100=
a% difference.
7. Resize using % difference on charted orifice size by using calculation below.
a. (1 + (%difference/100)) x charted orifice size=adjusted size
a. (1 · (aujusted size
8. Adjust Rate and speed to determine minimum and maximum GPM per orifice.
Results-
Adjusted Orifice Size
Target System Pressure PSI
Minimum GPM @ 10PSI GPM
Maximum GPM @ Customer's maximum system PSI GPM
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Customer Name:	Post vApply HD Orifice sizing Worksheet
Product Target RateGPA Planting SpeedMPH # of rows Row SpacingInches Optimal Operating PS! PSI Follow steps to find appropriate orifice size based on customer's rate and product. 1. Complete a flow rate adjustment for vApplyHD and Flow Sense(if applicable) before proceeding. 2. Find Target GPM per application point. (consider if each Furrowjet is 3 points, Dual Conceal is 2) a. (GPA XMPH XInch row width)/ 5940= Target GPM b. If more than 1 application point per row, divide target GPM by # of points.	Customer Name:
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	Orifice Recommendation
	Tost Posults
Waximum planting speed at customer's maximum target rate	Maximum planting speed at customer's maximum target rate
Minimum planting speed at customer's minimum target rate	
Maximum rate @ AVG mph	
Minimum rate@ AVGmph	

Orifice Plate Chart

	GPM							
U	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	
CP4916-008	0.003	0.004	0.006	0.007	0.008	0.009	0.010	
CP4916-10	0.005	0.007	0.009	0.011	0.013	0.015	0.016	
CP4916-12	0.007	0.010	0.013	0.016	0.019	0.021	0.023	
CP4916-14	0.009	0.013	0.018	0.022	0.025	0.028	0.031	
CP4916-15	0.010	0.015	0.021	0.025	0.029	0.032	0.036	
CP4916-16	0.012	0.017	0.023	0.029	0.033	0.037	0.040	
CP4916-18	0.015	0.021	0.030	0.036	0.042	0.047	0.051	
CP4916-20	0.018	0.026	0.037	0.045	0.052	0.058	0.064	
CP4916-22	0.022	0.031	0.043	0.053	0.061	0.068	0.075	
CP4916-24	0.026	0.037	0.052	0.064	0.074	0.083	0.091	
CP4916-25	0.028	0.040	0.056	0.068	0.079	0.088	0.097	
CP4916-26	0.030	0.043	0.061	0.074	0.086	0.096	0.105	
CP4916-27	0.032	0.046	0.064	0.079	0.091	0.102	0.111	
CP4916-28	0.035	0.049	0.069	0.085	0.098	0.110	0.120	
CP4916-29	0.038	0.054	0.076	0.094	0.108	0.121	0.132	
CP4916-30	0.040	0.057	0.081	0.099	0.114	0.127	0.140	
CP4916-31	0.043	0.062	0.087	0.107	0.123	0.138	0.151	
CP4916-32	0.048	0.068	0.095	0.117	0.135	0.151	0.165	
CP4916-34	0.052	0.074	0.104	0.127	0.147	0.164	0.180	
CP4916-35	0.056	0.079	0.111	0.136	0.157	0.176	0.192	
CP4916-37	0.061	0.086	0.122	0.149	0.172	0.192	0.211	
CP4916-39	0.068	0.096	0.135	0.165	0.191	0.214	0.234	
CP4916-40	0.072	0.102	0.144	0.177	0.204	0.228	0.250	
CP4916-41	0.075	0.106	0.149	0.183	0.211	0.236	0.258	
CP4916-43	0.082	0.116	0.163	0.200	0.231	0.258	0.283	
CP4916-45	0.088	0.125	0.177	0.217	0.250	0.280	0.306	
CP4916-46	0.095	0.135	0.191	0.234	0.270	0.302	0.331	

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(• • •	GPM							
U	5 PSI	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	
CP4916-47	0.097	0.138	0.194	0.238	0.275	0.307	0.337	
CP4916-48	0.101	0.143	0.202	0.248	0.286	0.320	0.350	
CP4916-49	0.104	0.148	0.209	0.255	0.295	0.330	0.361	
CP4916-51	0.116	0.165	0.233	0.285	0.329	0.368	0.403	
CP4916-52	0.118	0.168	0.237	0.290	0.335	0.375	0.410	
CP4916-54	0.127	0.180	0.255	0.312	0.360	0.402	0.441	
CP4916-55	0.133	0.189	0.267	0.326	0.377	0.421	0.462	
CP4916-57	0.141	0.200	0.283	0.346	0.400	0.447	0.490	
CP4916-59	0.153	0.217	0.306	0.375	0.433	0.484	0.530	
CP4916-61	0.165	0.233	0.330	0.404	0.466	0.521	0.571	
CP4916-63	0.174	0.246	0.347	0.425	0.491	0.549	0.601	
CP4916-65	0.185	0.261	0.369	0.452	0.522	0.584	0.639	
CP4916-67	0.196	0.278	0.392	0.481	0.555	0.621	0.680	
CP4916-68	0.203	0.287	0.405	0.496	0.573	0.641	0.702	
CP4916-70	0.216	0.306	0.433	0.530	0.612	0.684	0.750	
CP4916-72	0.226	0.320	0.453	0.554	0.640	0.716	0.784	
CP4916-73	0.233	0.330	0.467	0.572	0.660	0.738	0.808	
CP4916-75	0.245	0.347	0.491	0.601	0.694	0.776	0.850	
CP4916-78	0.272	0.385	0.544	0.667	0.770	0.861	0.943	
CP4916-80	0.280	0.397	0.561	0.687	0.793	0.887	0.971	
CP4916-81	0.290	0.411	0.581	0.711	0.821	0.918	1.01	
CP4916-83	0.317	0.449	0.634	0.777	0.897	1.00	1.10	
CP4916-86	0.332	0.470	0.664	0.813	0.939	1.05	1.15	
CP4916-89	0.346	0.490	0.693	0.849	0.980	1.10	1.20	
CP4916-91	0.369	0.523	0.739	0.905	1.05	1.17	1.28	
CP4916-93	0.387	0.547	0.774	0.947	1.09	1.22	1.34	
CP4916-95	0.404	0.572	0.808	0.990	1.14	1.28	1.40	

	GPM							
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CP4916-98	0.442	0.625	0.884	1.08	1.25	1.40	1.53	
CP4916-103	0.461	0.653	0.923	1.13	1.31	1.46	1.60	
CP4916-107	0.518	0.733	1.04	1.27	1.47	1.64	1.79	
CP4916-110	0.548	0.775	1.10	1.34	1.55	1.73	1.90	
CP4916-115	0.605	0.855	1.21	1.48	1.71	1.91	2.09	
CP4916-120	0.629	0.890	1.26	1.54	1.78	1.99	2.18	
CP4916-125	0.693	0.980	1.39	1.70	1.96	2.19	2.40	
CP4916-128	0.721	1.02	1.44	1.77	2.04	2.28	2.50	
CP4916-132	0.774	1.10	1.55	1.90	2.19	2.45	2.68	
CP4916-136	0.840	1.19	1.68	2.06	2.38	2.66	2.91	
CP4916-140	0.894	1.27	1.79	2.19	2.53	2.83	3.10	
CP4916-144	0.926	1.31	1.85	2.27	2.62	2.93	3.21	
CP4916-147	0.953	1.35	1.91	2.33	2.70	3.01	3.30	
CP4916-151	1.04	1.47	2.08	2.55	2.94	3.29	3.60	
CP4916-156	1.10	1.55	2.20	2.69	3.11	3.47	3.80	
CP4916-161	1.15	1.63	2.31	2.83	3.27	3.65	4.00	
CP4916-166	1.21	1.72	2.43	2.97	3.43	3.84	4.20	
CP4916-170	1.30	1.84	2.61	3.19	3.69	4.12	4.51	
CP4916-172	1.36	1.92	2.71	3.32	3.84	4.29	4.70	
CP4916-177	1.41	2.00	2.83	3.46	4.00	4.47	4.90	
CP4916-182	1.47	2.08	2.95	3.61	4.17	4.66	5.10	
CP4916-187	1.56	2.21	3.12	3.82	4.41	4.93	5.40	
CP4916-196	1.73	2.45	3.46	4.24	4.90	5.47	6.00	
CP4916-205	1.88	2.65	3.75	4.59	5.31	5.93	6.50	
CP4916-218	2.11	2.98	4.21	5.16	5.96	6.66	7.30	
CP4916-234	2.45	3.47	4.91	6.01	6.94	7.76	8.50	
CD4016-250	283	4.00	5.66	6.93	8.00	8 94	9.80	