

Orifice Meter CM3215 Fall 2013

Station	Names	Q (gpm) versus $\Delta p$ (psi)	Time/ Section
1	Jacqueline Harms Cameron Hemphill	$Q_{gpm} = .416\Delta p + 1.0913$	9A
2	Zane Kluesing Jawn Thore	$y = 3.985x + 4.6125$	9A
3	Michael Grillo Dylan Koons	$Q = -.0278(\text{psi})^2 + .5811(\text{psi}) + .7133$	9A
4	Tyler Jensen Jonathan Jakob	$Q = 0.4539(\text{psi})^2 + 0.65(\text{psi}) - 1.0636$	9A
5	Thomas Wetson Evan Yukala		9A
6	Jonathan Wenzel Benjamin Veenstra	$Q = -0.0035(\text{mA})^2 + 0.0236(\text{mA}) - 0.0948$	9A
7	Eric Pearson Alex Power	$Q = 0.1287(\text{mA}) - 0.8583$	9A
8	Madison Mehlhose James Kenney	$Q = -0.0491(P)^2 + 0.7619(P) + 0.5333$	9A
9	David Hutchison	$Q = -0.0226(\Delta P)^2 + 0.490(\Delta P) + 0.7001$	9A
10			9A

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Station	Names	Q (gpm) versus I(mA)	Time/ Section
1	Robert LeBrell Brittany Frost	$-0.00391(I)^2 + 0.20281(I) - 0.1321$ <i>mA</i>	9B
2	Mike Szatkowski Sean Leckland-Wagner	$Q = -0.0039(I)^2 + 0.2215(I) - 0.5462$	9B
3	Ryan Patrick Eric Leslie	$Q = .1244 I + .165$	9B
4	Zach Peterson John Keefe	$Q = -.0036 I^2 + 0.1944 I - .0465$	9B
5	Austin Van Steenburgh Eric Simon	$Q = -.0037(I)^2 + .1932(I) - .0447$	9B
6	Nathan LaBarge Megan Williams		9B
7	Noah Seelye Josh Stumaker	<del><math>Q = 0.3851</math></del> $Q = 0.1189(mA) + 0.314$	9B
8	Melissa VanLaanen Joseph Smith	$Q = -0.0015(I)^2 + .1462(I) + .202$	9B
9	Noelle Savage Tyler Blowers	<del><math>I = 9.8439Q - 3.475</math></del> $Q = 0.101586I + 3.475$	9B
10	Dylaina Frebing Adam Culverley	$Q = 0.1009 I + 0.1188$	9B

6)  $Q = -0.00479(mA)^2 + 0.2272(mA) - 0.2005$

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Station	Names	Q (gpm) versus I (mA)	Time/ Section
1			1A
2	Tyler Middlebrook Kyle Bronnen	$Q(\text{gpm}) = -0.0049 I^2 + 0.2409 I - 0.5276$	1A
3	Julie Laford	$Q(\text{gpm}) = 0.1054(I^2) + 0.2358 I + 0.2409 I$	1A
4	Weston Hood Casey R	$Q(\text{gpm}) = -0.0015(\text{mA})^2 + 0.1484(\text{mA}) + 0.2645$	1A
5	Ted Kruse Colin Hoelke	$Q(\text{gpm}) = 0.1028(I) + 0.4799$	1A
6	Nathan Gankis Peter Gardner	$Q(\text{gpm}) = -0.0049(I^2) + 0.2327(I) - 0.3304$	1A
7	Casey Beirne Zach Demro	$Q = 0.3134(\Delta P) + 0.908$	1A
8	Julie Tomasi Drew Payton	$Q = 0.1224 I + 0.2144$	1A
9	Will Goeman	$Q = -0.0012(\text{mA})^2 + 0.1314(\text{mA}) + 0.1086$	1A
10	Elizabeth Vaught Lindsey Thiel	$Q(\text{gpm}) = 0.1169 I(\text{mA}) + 0.1455$	1A

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Station	Names	Q (gpm) versus I (mA)	Time/ Section
1	_____	_____	1B
2	Daniel LaForest Michael Favett	$Q = -1.1798X^2 + 0.1937X - 0.1272$	1B
3	Eliot Nagler Nathan LaJoye	$Q \text{ (gpm)} = .12 \text{ (mA)} + .211$	1B
4	Elizabeth Waters LUKE Zoromski	$Q \text{ (gpm)} = 0.1123 \text{ (mA)} + 0.3533$	1B
5	Ben Closner	$Q \text{ (gpm)} = -.0039 \text{ (mA)}^2 + .1172 \text{ (mA)} - .0492$	1B
6	Justin Levande Christine Scharphorn	$Q = 0.3573 \text{ (mA)} + 0.8653$	1B
7	Michael D'Angelo Rebecca Villerot	$Q = 3.7583 \text{ (I)} - 16.359$	1B
8	Ryan McInnis Olivia Muroz	$Q = 0.1269 \text{ (mA)} + 0.1761$	1B
9	Aaron Steas Hannah Schmitt	$Q = 4.144 \text{ (mA)}^2 - 2.9863 \text{ (mA)} + 6.9583$	1B
10	Ryan Carr Dan Kyle T	$Q = 0.467 \text{ (mA)} + 0.556$	1B

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Station	Names	Q (gpm) versus I(mA)	Time/ Section
1			3A
2	Courtney Castelic	$Q = -0.0015x^2 + 0.1491x + 0.1793$ $x = \text{mA}$	3A
3			3A
4	Christian Dale Shannon Ennis	$Q = -0.0015(\text{mA})^2 + 0.148(\text{mA})$ $+ 0.1833$	3A
5			3A
6	Alex Tetzels Andrew Borectke	$Q(\text{gpm}) = -0.002(\text{mA})^2 + 0.1697(\text{mA}) - 0.0379$	3A
7			3A
8	Jesse Johnson Henri Falck	$Q(\text{gpm}) = 0.1143\text{mA} + 0.2473$	3A
9			3A
10	Matt Coel Peng	$Q(\text{gpm}) = -0.0029(\text{mA})^2 + 0.169(\text{mA}) - 0.1591$	3A