

Comparison of annual average CASM Steinhaus similarity for a series of chemographs calculated with the Logistic regression vs. actual CASM simulations.

Total no of CASM runs: 128

99th centile: 1 98th 3 false negative 1 1 1 1
 95th centile: 6 trig. (%sim): 5 false positive 6 2 2 4
 correct 120 125 125 123

Data Set					Percent CASM Effect	Trigger [µg/L]			
	14d	30d	60d	90d		37.7 14d AVG	26.8 30d AVG	17.5 60d AVG	11.8 90d AVG
Honey Creek, 1996, daily ppb original	18.0	13.4	7.8	5.5	1.9	correct-	correct	correct	correct
Honey Creek, 1996, daily ppb amplified	36.0	26.8	15.5	10.9	3.6	correct	correct	correct	correct
Honey Creek, 1996, scenario1 amplified	30.3	21.9	13.1	9.0	2.5	correct	correct	correct	correct
Honey Creek, 1996, scenario2 amplified	57.7	37.0	20.8	14.1	5.9	correct	correct	correct	correct
Honey Creek, 1996, scenario3 amplified	30.3	23.7	14.1	9.6	2.5	correct	correct	correct	correct
Honey Creek, 1996, scenario4 amplified	30.0	24.2	14.2	9.7	3.3	correct	correct	correct	correct
Honey Creek, 1997, daily ppb original	22.7	13.5	8.9	6.6	2.6	correct	correct	correct	correct
Honey Creek, 1997, daily ppb amplified	45.3	27.0	17.9	13.1	5.7	correct	correct	correct	correct
Honey Creek, 1997, scenario1 amplified	34.3	20.4	14.6	10.4	4.9	correct	correct	correct	correct
Honey Creek, 1997, scenario2 amplified	36.2	26.8	19.2	14.2	3.9	correct	correct	false positive	false positive
Honey Creek, 1997, scenario3 amplified	55.1	32.6	20.7	15.0	6.0	correct	correct	correct	correct
Honey Creek, 1997, scenario4 amplified	54.3	29.9	18.3	12.9	6.3	correct	correct	correct	correct
Honey Creek, 1998, daily ppb original	21.5	12.9	7.1	4.9	1.7	correct	correct	correct	correct
Honey Creek, 1998, daily ppb amplified	43.0	25.8	14.2	9.9	4.4	false positive	correct	correct	correct
Honey Creek, 1998, scenario1 amplified	37.6	23.0	12.6	8.8	2.5	correct	correct	correct	correct
Honey Creek, 1998, scenario2 amplified	50.6	29.2	15.8	11.0	4.5	false positive	false positive	correct	correct
Honey Creek, 1998, scenario3 amplified	45.9	28.1	15.3	10.6	4.4	false positive	false positive	correct	correct
Honey Creek, 1998, scenario4 amplified	36.1	22.6	12.6	8.8	4.9	correct	correct	correct	correct
Honey Creek, 1999, daily ppb original	25.9	18.7	12.6	9.3	2.6	correct	correct	correct	correct
Honey Creek, 1999, daily ppb amplified	51.7	37.5	25.3	18.6	6.3	correct	correct	correct	correct
Honey Creek, 1999, scenario1 amplified	41.3	31.7	22.0	16.0	5.4	correct	correct	correct	correct
Honey Creek, 1999, scenario2 amplified	56.8	44.7	29.1	20.7	7.1	correct	correct	correct	correct
Honey Creek, 1999, scenario3 amplified	64.7	41.8	27.4	19.3	6.4	correct	correct	correct	correct
Honey Creek, 1999, scenario4 amplified	44.4	31.9	22.2	16.0	6.2	correct	correct	correct	correct
Honey Creek, 2000, daily ppb original	11.8	8.0	5.0	3.5	0.0	correct	correct	correct	correct
Honey Creek, 2000, daily ppb amplified	23.7	16.0	9.9	7.0	3.1	correct	correct	correct	correct
Honey Creek, 2000, scenario1 amplified	28.1	18.5	10.8	7.5	4.0	correct	correct	correct	correct
Honey Creek, 2000, scenario2 amplified	22.3	13.8	8.1	5.7	3.3	correct	correct	correct	correct
Honey Creek, 2000, scenario3 amplified	15.9	11.5	8.0	5.5	0.0	correct	correct	correct	correct
Honey Creek, 2000, scenario4 amplified	31.1	20.9	12.9	8.8	4.0	correct	correct	correct	correct
Honey Creek, 2001, daily ppb original	8.0	5.6	3.6	2.6	0.0	correct	correct	correct	correct
Honey Creek, 2001, daily ppb amplified	16.0	11.2	7.2	5.1	7.0	false negative	false negative	false negative	false negative
Honey Creek, 2001, scenario1 amplified	16.1	11.6	7.4	5.2	0.0	correct	correct	correct	correct
Honey Creek, 2001, scenario2 amplified	13.8	10.2	6.7	4.8	0.0	correct	correct	correct	correct
Honey Creek, 2001, scenario3 amplified	17.6	11.7	7.5	5.4	1.4	correct	correct	correct	correct
Honey Creek, 2001, scenario4 amplified	16.2	11.1	7.1	5.1	1.4	correct	correct	correct	correct
Honey Creek, 2002, daily ppb original	43.4	22.0	14.0	9.6	4.2	false positive	correct	correct	correct
Honey Creek, 2002, daily ppb amplified	86.7	44.0	28.1	19.2	6.7	correct	correct	correct	correct
Honey Creek, 2002, scenario1 amplified	91.3	48.4	29.3	20.0	7.4	correct	correct	correct	correct
Honey Creek, 2002, scenario2 amplified	47.7	27.0	17.7	12.3	6.3	correct	correct	correct	correct
Honey Creek, 2002, scenario3 amplified	35.7	22.2	16.9	11.8	4.3	correct	correct	correct	false positive
Honey Creek, 2002, scenario4 amplified	170.7	83.3	48.5	32.8	9.0	correct	correct	correct	correct
Sandusky, 1995 daily ppb original	9.3	8.7	6.2	4.6	0.0	correct	correct	correct	correct
Sandusky, 1996 daily ppb original	12.5	10.6	7.0	5.3	0.0	correct	correct	correct	correct

Sandusky, 1997, daily ppb original	26.1	16.9	11.5	8.3	2.2	correct	correct	correct	correct
Sandusky, 1998, daily ppb original	20.0	12.1	6.8	5.2	1.6	correct	correct	correct	correct
Sandusky, 2000, daily ppb original	10.2	7.1	4.0	2.9	0.0	correct	correct	correct	correct
Sandusky, 2002, daily ppb original	17.3	12.2	8.6	6.1	1.7	correct	correct	correct	correct
Sandusky, 1995 daily ppb amplified	18.6	17.5	12.4	9.1	2.0	correct	correct	correct	correct
Sandusky, 1996 daily ppb amplified	25.0	21.2	14.1	10.6	3.2	correct	correct	correct	correct
Sandusky, 1997, daily ppb amplified	52.3	33.8	23.0	16.6	7.4	correct	correct	correct	correct
Sandusky, 1998, daily ppb amplified	40.1	24.2	13.6	10.4	4.3	false positive	correct	correct	correct
Sandusky, 2000, daily ppb amplified	20.3	14.1	8.0	5.7	2.0	correct	correct	correct	correct
Sandusky, 2002, daily ppb amplified	86.3	61.0	42.8	30.7	10.1	correct	correct	correct	correct
Sandusky, 2002, scenario1 amplified	98.5	65.8	46.9	33.6	10.5	correct	correct	correct	correct
Sandusky, 2002, scenario2 amplified	64.7	49.4	36.3	26.3	10.0	correct	correct	correct	correct
Sandusky, 2002, scenario3 amplified	78.9	62.4	43.0	30.8	10.4	correct	correct	correct	correct
Sandusky, 2002, scenario4 amplified	96.8	64.4	44.9	32.0	10.2	correct	correct	correct	correct
Miami, 1996, original	4.3	3.0	1.9	1.5	0.0	correct	correct	correct	correct
Miami, 1997, original	15.2	8.1	7.5	5.4	3.8	correct	correct	correct	correct
Miami, 1998, original	4.9	3.5	2.5	2.0	0.0	correct	correct	correct	correct
Miami, 2000, original	8.4	4.6	2.6	1.9	0.0	correct	correct	correct	correct
Miami, 2001, original	9.5	6.1	3.6	2.5	0.0	correct	correct	correct	correct
Miami, 1996, amplified	8.7	5.9	3.8	2.9	0.0	correct	correct	correct	correct
Miami, 1997, amplified	30.4	16.3	15.1	10.7	4.2	correct	correct	correct	correct
Miami, 1998, amplified	9.7	7.1	5.1	4.1	0.0	correct	correct	correct	correct
Miami, 2000, amplified	16.8	9.2	5.2	3.8	2.5	correct	correct	correct	correct
Miami, 2001, amplified	19.0	12.1	7.2	5.1	1.7	correct	correct	correct	correct
Maumee, 1996, original	8.8	7.4	5.7	4.3	0.0	correct	correct	correct	correct
Maumee, 1997, original	18.9	15.0	10.6	7.6	1.7	correct	correct	correct	correct
Maumee, 1998, original	16.6	11.3	6.6	5.1	1.3	correct	correct	correct	correct
Maumee, 2000, original	8.0	6.4	4.0	2.9	0.0	correct	correct	correct	correct
Maumee, 2001, original	14.3	9.6	6.2	4.6	0.4	correct	correct	correct	correct
Maumee, 1996, amplified	17.6	14.8	11.4	8.6	1.0	correct	correct	correct	correct
Maumee, 1997, amplified	37.8	29.9	21.1	15.3	6.1	correct	correct	correct	correct
Maumee, 1998, amplified	33.1	22.6	13.2	10.1	3.3	correct	correct	correct	correct
Maumee, 2000, amplified	15.9	12.8	8.0	5.7	0.4	correct	correct	correct	correct
Maumee, 2001, amplified	28.6	19.2	12.4	9.2	3.2	correct	correct	correct	correct
Muskingum, 1996, original	3.8	3.5	2.3	1.6	0.0	correct	correct	correct	correct
Muskingum, 1997, original	5.2	4.3	2.7	2.0	0.0	correct	correct	correct	correct
Muskingum, 1998, original	2.1	1.8	1.3	1.0	0.0	correct	correct	correct	correct
Muskingum, 2000, original	0.9	0.7	0.5	0.5	0.0	correct	correct	correct	correct
Muskingum, 2001, original	5.9	3.3	2.3	1.6	0.0	correct	correct	correct	correct
Muskingum, 1996, amplified	7.5	7.1	4.6	3.3	0.0	correct	correct	correct	correct
Muskingum, 1997, amplified	10.5	8.7	5.3	4.0	0.0	correct	correct	correct	correct
Muskingum, 1998, amplified	4.2	3.6	2.6	2.0	0.0	correct	correct	correct	correct
Muskingum, 2000, amplified	1.7	1.4	1.0	0.9	0.0	correct	correct	correct	correct
Muskingum, 2001, amplified	11.9	6.5	4.6	3.2	0.0	correct	correct	correct	correct
Raisin, 1996, original	7.9	4.4	2.4	1.8	1.0	correct	correct	correct	correct
Raisin, 1997, original	39.0	19.7	10.9	8.0	4.3	false positive	correct	correct	correct
Raisin, 1998, original	2.7	1.9	1.3	1.0	0.0	correct	correct	correct	correct
Raisin, 2000, original	2.2	2.0	1.4	1.1	0.0	correct	correct	correct	correct
Raisin, 2001, original	10.8	6.2	3.5	2.5	0.8	correct	correct	correct	correct
Raisin, 1996, amplified	15.8	8.9	4.9	3.6	1.1	correct	correct	correct	correct
Raisin, 1997, amplified	77.9	39.5	21.9	16.1	8.4	correct	correct	correct	correct
Raisin, 1998, amplified	5.5	3.8	2.5	2.0	0.0	correct	correct	correct	correct
Raisin, 2000, amplified	4.5	4.0	2.9	2.1	0.0	correct	correct	correct	correct
Raisin, 2001, amplified	21.5	12.4	7.0	4.9	3.0	correct	correct	correct	correct
Rock Creek, 1996, original	10.5	7.5	4.3	2.9	0.7	correct	correct	correct	correct

Rock Creek, 1997, original	16.3	11.1	8.0	5.9	2.1	correct	correct	correct	correct
Rock Creek, 1998, original	17.1	10.1	5.5	3.8	1.2	correct	correct	correct	correct
Rock Creek, 2000, original	10.7	6.4	3.4	2.4	0.4	correct	correct	correct	correct
Rock Creek, 2001, original	10.0	6.2	3.5	2.4	0.0	correct	correct	correct	correct
Rock Creek, 1996, amplified	21.1	15.1	8.5	5.8	2.3	correct	correct	correct	correct
Rock Creek, 1997, amplified	32.6	22.3	16.0	11.8	4.8	correct	correct	correct	false positive
Rock Creek, 1998, amplified	34.1	20.2	11.0	7.6	3.7	correct	correct	correct	correct
Rock Creek, 2000, amplified	21.5	12.9	6.9	4.7	2.4	correct	correct	correct	correct
Rock Creek, 2001, amplified	19.9	12.4	6.9	4.9	2.0	correct	correct	correct	correct
Scioto, 1996, original	7.5	6.1	4.3	3.2	0.0	correct	correct	correct	correct
Scioto, 1997, original	15.7	11.2	9.1	6.7	0.0	correct	correct	correct	correct
Scioto, 1998, original	6.6	5.0	3.5	2.8	0.0	correct	correct	correct	correct
Scioto, 2000, original	5.1	3.3	2.1	1.6	0.0	correct	correct	correct	correct
Scioto, 2001, original	12.0	8.4	5.3	3.9	0.0	correct	correct	correct	correct
Scioto, 1996, amplified	15.0	12.2	8.6	6.4	0.0	correct	correct	correct	correct
Scioto, 1997, amplified	31.5	22.3	18.2	13.5	3.8	correct	correct	false positive	false positive
Scioto, 1998, amplified	13.1	9.9	6.9	5.6	0.0	correct	correct	correct	correct
Scioto, 2000, amplified	10.1	6.6	4.2	3.2	0.0	correct	correct	correct	correct
Scioto, 2001, amplified	24.1	16.8	10.6	7.7	2.8	correct	correct	correct	correct
Lost Creek, 1987, original	12.5	9.1	6.9	5.6	0.7	correct	correct	correct	correct
Lost Creek, 1989, original	4.9	3.0	1.8	1.3	0.0	correct	correct	correct	correct
Lost Creek, 1990, original	8.3	4.8	4.0	3.0	0.0	correct	correct	correct	correct
Lost Creek, 1992, original	3.3	1.6	0.9	0.6	0.0	correct	correct	correct	correct
Lost Creek, 1993, original	10.2	7.2	4.6	3.3	0.4	correct	correct	correct	correct
Lost Creek, 1987, amplified	25.1	18.2	13.8	11.3	4.2	correct	correct	correct	correct
Lost Creek, 1989, amplified	9.8	6.1	3.5	2.7	0.0	correct	correct	correct	correct
Lost Creek, 1990, amplified	16.5	9.7	7.9	6.0	1.9	correct	correct	correct	correct
Lost Creek, 1992, amplified	6.6	3.2	1.8	1.2	0.5	correct	correct	correct	correct
Lost Creek, 1993, amplified	20.4	14.3	9.2	6.5	2.1	correct	correct	correct	correct