									ing Data			
Course:	Planta	tion Field	CCI4*	Date and time: 9/22/23 8:40				Measure site description				
Pre-event Measure no:	Soil moisture	Cushion- ing	Firmness	Depth	Energy return	Stiffness (top ground layer)	Stiffness (lower ground	Going value	Data collected every 125m Location 1st Bend		Operato MB A/vated	
1	31	9.49	75	27	9	176	218	2.3			12,4400	
2	31	11.26	95	24	11	216	341	4.2	Just after road pri			
3	33	11.35	98	23	11	201	367	4.3	Prior to Jump			
4	31	11.36	94	24	13	177	346	4.0	Just after Jum			
5	35	11.06	93	23	12	262	335	4.4	Foundation e			
6	38	9.65	78	22	11	168	234	2.4	After Jump			
7	35	9.99	80	24	11	163	252	2.7	Between Jumps 1			
8	34	9.97	78	28	12	169	237	2.6	Between Jumps 1			
9	35	9.71	76	25	12	190	219	2.5	Pond exit @ 14			
10	22	11.20	89	22	13	212	307	3.8	Bottom of hill at exi	<u> </u>		
11	35	11.66	101	23	12	204	388	4.6	Between Jumps 1			
12	24	10.34	81	25	11	167	261	2.9	Between Jumps 1			
13	37	11.62	97	22	15	248	367	4.7	Exit from 19ABC Between Jumps 21 & 22			
14	33	9.69	77	28	10	150	229	2.3	After Jump 23 before Finish			
15 16	34	13.03	115	19	14	219	515	6.1	After Julip 25 before Fillish			
16												
17												
18												
20												
20												
22												
23												
24												
25												
26												
27												
28												
29												
30										-		
Average	33	10.8	88	24	12	195	308		Course variability	Going va	lue (0-10	
SD	4.4	1.0	11.8	2.4	1.4	32.4	83.4		13.5	3	3.6	
SD%	13.5%	9.4%	13.3%	10.2%	11.9%	16.6%	27.1%					
Data supplied by: Boekholder & Associates, LLC - Middletown, Delaware (215) 828-4329								Overall going assessment				

Detailed going report

Overall, the ground is in excellent condition for the XC event. Moisture levels are good generally all across the property. Lower and Upper Level stiffness numbers are in the Good or Good/Firm range in all area with the one exception of the Lower Level stiffness being Firm at the finish. Likewise, Going values are in the Good range everywhere except the last test point at the Finish. Course Variability is well within the Average range. I would anticipate if you do see any rainfall during the day tomorrow, it will slightly soften the Upper Level stiffness numbers but should't alter the Lower Level at all, as long as the forecast holds and you receive only lighter rain during the event. All in all, the XC course is in great shape at this point.

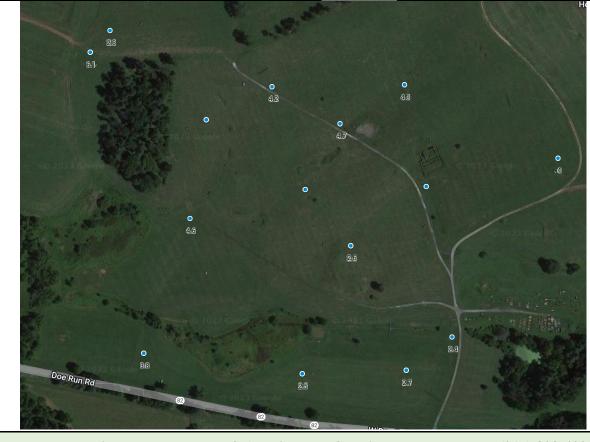
9 1 • 4	<15 very dry	15-25 dry	25-50 good	Stiffness = surface	Top (0-10	<100 soft	00-140 gd/so	40-230 go
Soil moisture	50-65 wet	>65 very wet		stiffness in either top	cm) layer	230-310 gd/fm	310-400 firm	>400 hard
Cushioning = how much the surface is	<7 soft	7-8.5 gd/soft	8.5-11.5 good	1	Lower (10-	<130 soft	30-175 gd/so	.75-350 go
supportive when ridden on.	11.5-13 gd/fm	13-14 firm	>14 hard	or lower ground layers	25cm)	350-450 gd/fir	450-550 firm	>550 hard
Firmness = peak deacceleration at impact @	<50 soft	50-70 gd /soft	70-95 good	Course variability val	110	<10	10-20	>20
4m/s impact speed	95-115 gd/fm 115-130 firm		>130 hard	Course variability value		consistent	average	variable
Depth = penetration depth in mm @ $4m/s$	>32 soft	28-32 gd/soft 22-28 good				0-0.75 soft	0.75-1.75	1.75-4.75
impact speed	18-22 gd/fm 14-18 firm		<14 hard	Going value (0-10 scale range)		0-0.75 \$611	gd/soft	good
Energy return = % recoil energy from the surface @ 4m/s impact speed	<7 low	7-10 average	>10 good	8		4.75-6.25 gd/fm	6.25-8 firm	>8 hard

AP LEGEND

Map of measure points used for data collection



MAP LEGEND ata ©2023 Imagery ©2023 , Airbus, Maxar Technologies, U.S. Geolo Map of Going values at each data point Мар



Data supplied by: Boekholder & Associates, LLC - Middletown, Delaware (215) 828-4329