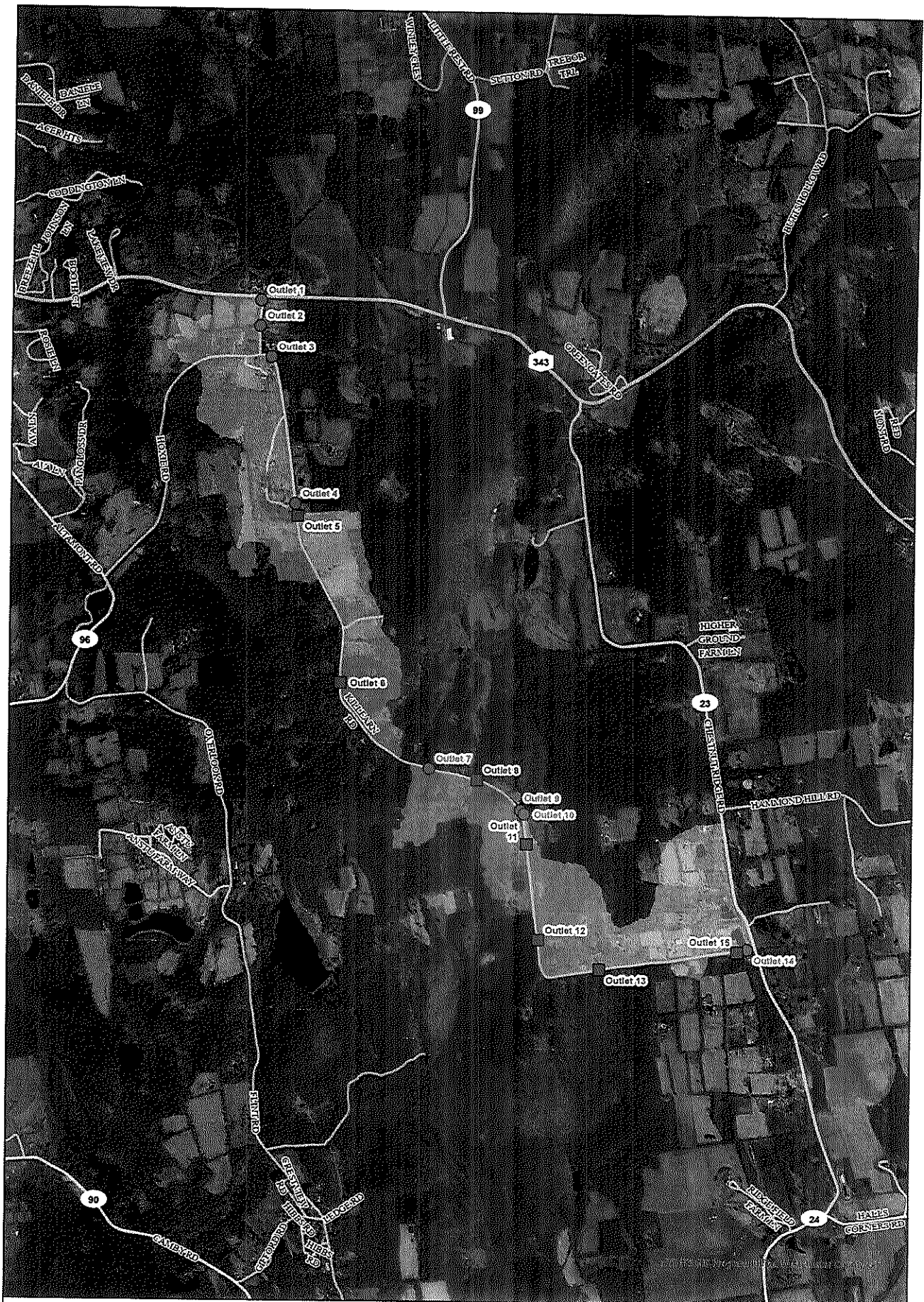


Appendix B – Hydrologic Maps and Data



Low Spot / Potential Culvert
 Culvert

Killeam Road Drainage Areas 1:24,000 Scale	
Date: 9/2/2022	Sheet: 1
0 2,000 4,000 Feet	



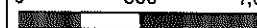
Low Spot / Potential Culvert
 Culvert
 Flowlines

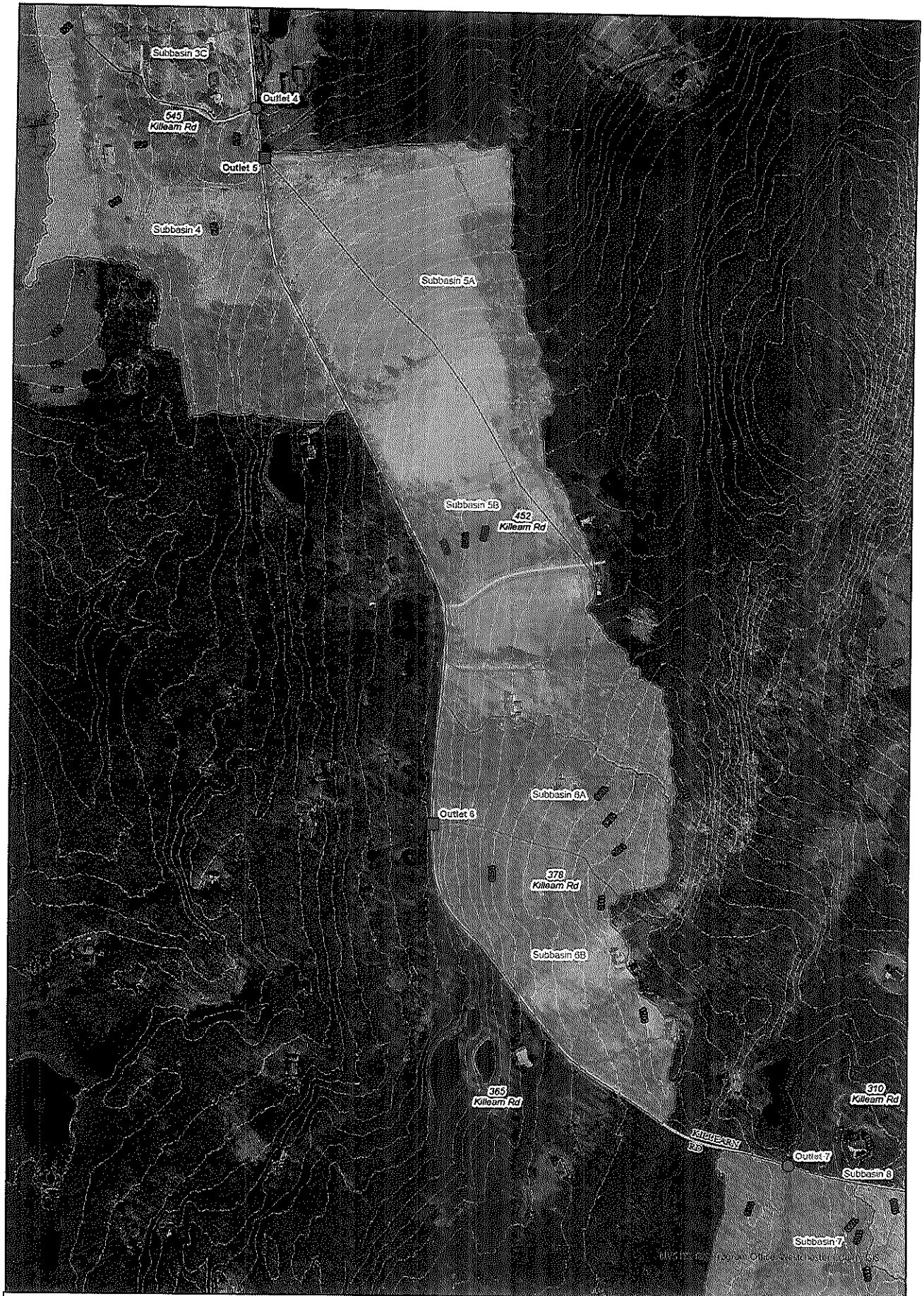
Killearn Road Drainage Areas
1:6,000 Scale

Date: 9/2/2022

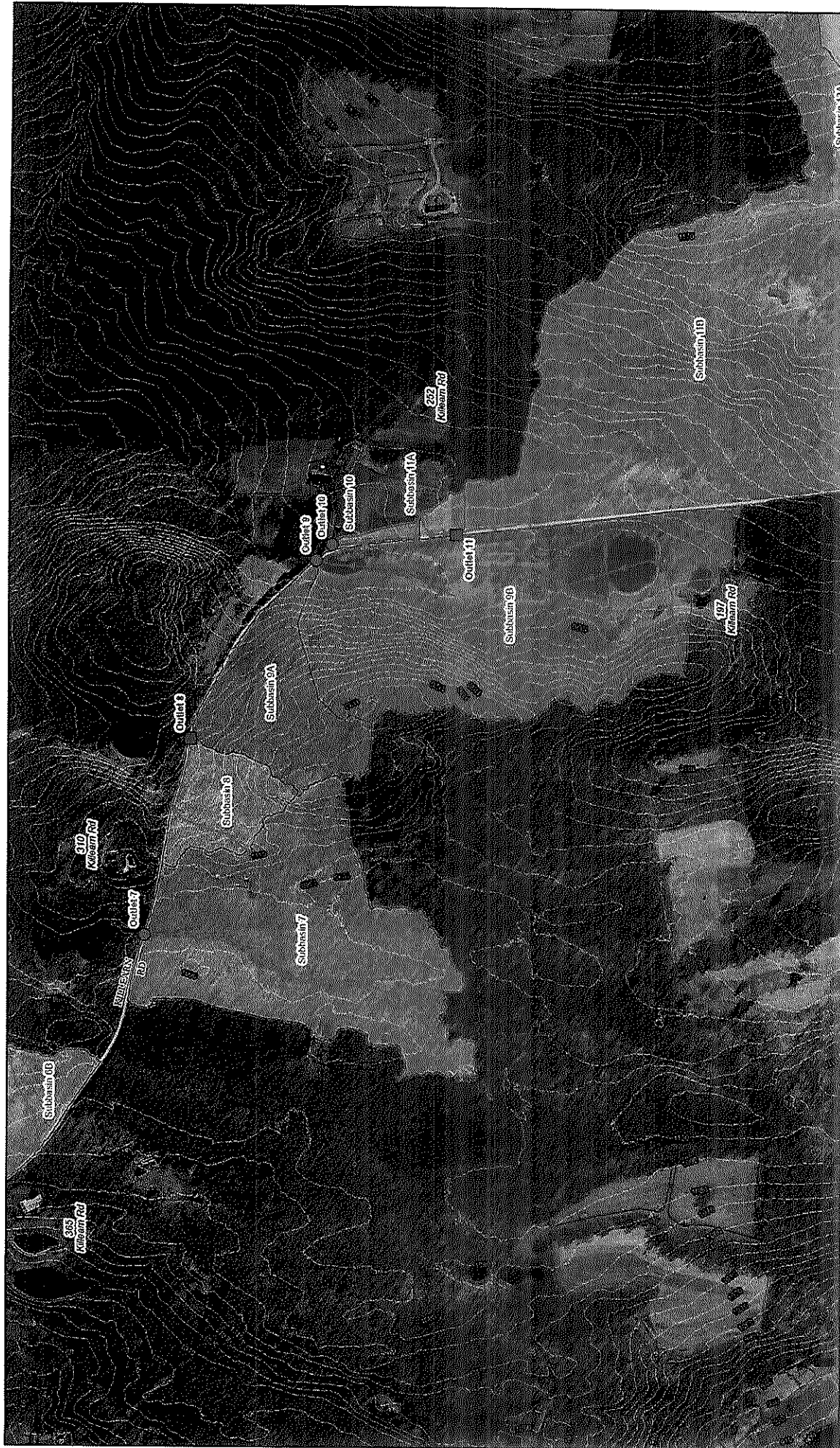
Sheet: 1

0 500 1,000 Feet





<p>N</p> <p>Low Spot / Potential Culvert Culvert Flowlines</p>		<p>Killeam Road Drainage Areas</p> <p>1:6,000 Scale</p>	
Date:	9/2/2022	Sheet:	2
0		500	1,000 Feet



<div> <div> <div></div> <div>Low Spot / Potential Culvert</div> </div> <div> <div></div> <div>Culvert</div> </div> <div> <div></div> <div>Flowlines</div> </div> </div>	<div> <div>Killlearn Road Drainage Areas</div> <div>1:6,000 Scale</div> </div>		<div> <div>Date</div> <div>9/2/2022</div> </div>
	<div> <div>0</div> <div>500</div> <div>1,000 Feet</div> </div>		<div> <div>Sheet</div> <div>3</div> </div>

Project: Killearn Road By: NHH Date: 8/26/22 Pg. 1 of 3
 Project No.: _____ Checked By: MRH Date: 9/1/22

Site: DA1A

Drainage Area (sf) = 472,415
 Drainage Area (ac) = 10.8

Rational Method Appropriate? YES

Time of Concentration (hr) = 0.28 17 min

Average C Value = 0.25

Return Interval	10-yr	25-yr	50-yr	100-yr	1-yr	5-yr
Intensity (in/hr)	3.71	4.53	5.29	6.21	2.16	3.2
Discharge (cfs)	10.00	12.0	14.0	16.0	6.0	8.00

Increase due to Climate Change

Return Interval	10-yr	25-yr	50-yr	100-yr	1-yr	5-yr
Discharge (cfs)	12.0	14.4	16.8	19.2	7.2	9.6
20% per Region						

Table 15-3 Equations and assumptions developed from figure 15-4

Flow type	Depth (ft)	Manning's n	Velocity equation (ft/s)
Pavement and small upland gullies	0.2	0.025	$V = 20.328(s)^{0.5}$
Grassed waterways	0.4	0.050	$V = 16.135(s)^{0.5}$
Nearly bare and untilled (overland flow); and alluvial fans in western mountain regions	0.2	0.051	$V = 9.965(s)^{0.5}$
Cultivated straight row crops	0.2	0.058	$V = 8.762(s)^{0.5}$
Short-grass pasture	0.2	0.073	$V = 6.962(s)^{0.5}$
Minimum tillage cultivation, contour or strip-cropped, and woodlands	0.2	0.101	$V = 5.032(s)^{0.5}$
Forest with heavy ground litter and hay meadows	0.2	0.202	$V = 2.516(s)^{0.5}$