

Preston Hudlow

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GEOG 404

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Assignment 9

Question 1:

	Reference	Classified	Number	Producer's	User's
Class Name	Totals	Totals	Correct	Accuracy (%)	Accuracy (%)
Urban	13	15	12	92.31	80
Residential	17	15	15	88.24	100
Forest	16	15	15	93.75	100
Water	14	15	14	100	93.33
Totals	60	60	56		
Overall accuracy (%)	93.33%				
Kappa Coefficient	.9111				

Question 2: Which land cover type(s) possesses the highest User's Accuracy for your asg9\_supervised.img, and what is the possible reason(s) for this highest accuracy?

The forest and residential were the two highest when it came to accuracy. This could be due to the distinct differences so it is easy to determine the class.

Question 3: Which land cover type(s) possesses the lowest User's Accuracy for your asg9\_supervised.img, and what is the possible reason(s) for this lowest accuracy?

The urban cover type had the lowest user accuracy. This can be due to the easy confusion between it and the residential cover type when creating training areas.

Question 4:

Class Name	Reference	Classified	Number	Producer's	User's
	Totals	Totals	Correct	Accuracy (%)	Accuracy (%)
Urban	11	15	10	90.91	66.67
Residential	18	15	13	72.22	86.67
Forest	16	15	15	93.75	100
Water	15	15	15	100	100
Totals	60	60	53		
Overall accuracy (%)	88.3				
Kappa Coefficient	= 8444				

Question 5: Which land cover type(s) possesses the highest User's Accuracy for your asg9\_unsupervised.img, and what is the possible reason(s) for this highest accuracy?

The forest and water cover types both had the highest user accuracy. This can be due to the grouping of like pixels choosing the best class for the cover type.

Question 6: Which land cover type(s) possesses the lowest User's Accuracy for your asg9\_unsupervised.img, and what is the possible reason(s) for this lowest accuracy?

The urban had the lowest accuracy in the user's section. This can be due to the mismatched grouping when running the unsupervised method.