

The Effects of Tap Water and Rain Water on Hair Dye

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 State Climate Office of North Carolina

Introduction

The reason why we wanted to do this project is because we wanted to see what would happen if you washed your hair with rainwater and tap water if the dye would come out faster in one of them.

Research Problem

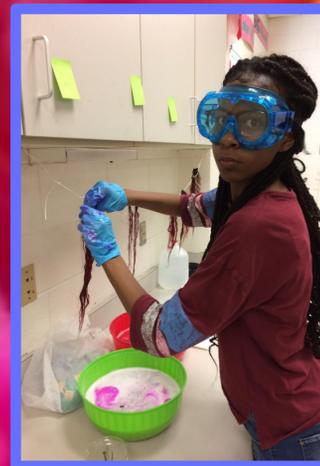
What is the effect of rainwater and tap water on hair dye on African American hair?

Hypothesis

We think the rain water is going to fade away the hair dye first.

Materials and Methods

- Get human hair clip on hair attachments and Adore hair dye 82 pink rose so you will see a difference with the color.
- Take a picture before putting on the dye. Bleach the hair and then apply the hair dye.
- Brush the dye on both sides and then let it dry for 15 min then wash it with tap and rainwater with one drop of shampoo -- dip the hair 10 times and then rinse. Hang up to dry.
- Identify the pieces with tap water strips and rainwater strips.
- Continue to wash once a week (same procedure) and record color loss with camera pictures



Discussion of Results

If we could continue this experiment, we would change the hair texture to Caucasian hair. We would also like to change the hair color because we had to bleach the African-American hair to dye it. It would be interesting to see if the results would turn out to be the same or different.

We would also like to try washing the hair using waters with different pH levels. Then we could produce water with the perfect pH levels for people's specific hair type and sell it.

Conclusion

Our hypothesis was correct because the rain water did fade the hair dye more than the tap water.

References and Acknowledgements

References

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Results

These are the results at the end. The hair with tape was washed in tap water and the hair without tape was washed in rainwater. We washed the hair 6 times totally (once a week). When we compared the final hair camera pictures, it looks like the hair that was washed with rain water is lighter because the dye faded more than it did on the hair we washed with tap water.



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