

[<Files\\H1>](#) - § 1 reference coded [1.91% Coverage]

Reference 1 - 1.91% Coverage

We do that by looking at the wind and the clouds, when it is cloudy and then the wind comes, then we know the rain won't come, so we just depend on God.

[<Files\\H11>](#) - § 1 reference coded [3.14% Coverage]

Reference 1 - 3.14% Coverage

We look at the Anna tree (*Faidherbia albida*), if we see no pods, then there won't be rain or very little rain. Even if we get rain, we always get a flood which still brings more problems and it does not help at all because our gardens get washed away and we get no harvest.

[<Files\\H12>](#) - § 1 reference coded [1.49% Coverage]

Reference 1 - 1.49% Coverage

I look at trees, and if they are wilted and dry, then we know there's drought and some plants begin to die

[<Files\\H13>](#) - § 1 reference coded [3.18% Coverage]

Reference 1 - 3.18% Coverage

We look at trees and observe rainfall months and from these, we get an idea whether there will be drought or not. If the fruits start falling off before they ripen, then we know there will be drought. Sometimes they fall off before they even form fruits.

[<Files\\H14>](#) - § 1 reference coded [2.23% Coverage]

Reference 1 - 2.23% Coverage

I look at birds and trees. If there are many pods for Mopani tree, there's drought. For birds, if I see less movement of birds then I know there will be drought

[<Files\\H15>](#) - § 1 reference coded [0.53% Coverage]

Reference 1 - 0.53% Coverage

We just look at the grass. No grass no rain.

[<Files\\H16>](#) - § 1 reference coded [2.37% Coverage]

Reference 1 - 2.37% Coverage

We use some birds that indicate when it will rain. The Anna tree also indicates drought through their production of pods. When we don't see pods in July, then we know there's going to be drought.

[<Files\\H18>](#) - § 1 reference coded [7.29% Coverage]

Reference 1 - 7.29% Coverage

We kill a goat and then we look at the intestines, we can tell whether there will be drought or not. We cut the veins and open the gut, the intestines, there are veins that we look at that shows us that there will be drought or not. We also look at the glands and we can tell whether there will be drought. The veins and glands are always there but if there will be drought, there will be on another side or invisible. This to us is like weather instruments and we use this accurately to tell us whether there will be drought or not.

[<Files\\H19>](#) - § 1 reference coded [3.06% Coverage]

Reference 1 - 3.06% Coverage

We use goats, we dissect the goat and by examining the intestines and the veins tell us whether there will be drought or not. If the veins are spreading like rivers, then there will be good rain. This method is accurate

[<Files\\H2>](#) - § 1 reference coded [0.27% Coverage]

Reference 1 - 0.27% Coverage

1.

We just look at the grass;

[<Files\\H20>](#) - § 1 reference coded [2.11% Coverage]

Reference 1 - 2.11% Coverage

We observe the rainfall season according to their respective months and if the rain does not come in its usual month, then we know there will be drought.

[<Files\\H21>](#) - § 1 reference coded [1.11% Coverage]

Reference 1 - 1.11% Coverage

We observe the plants in the wild and when they look dry and wilted then it is indicating drought

[<Files\\H22>](#) - § 1 reference coded [0.41% Coverage]

Reference 1 - 0.41% Coverage

No, I don't look at anything

[<Files\\H23>](#) - § 1 reference coded [1.38% Coverage]

Reference 1 - 1.38% Coverage

We look at Marula trees, and others, if they produce fruits we know the rain will come.

[<Files\\H24>](#) - § 1 reference coded [2.04% Coverage]

Reference 1 - 2.04% Coverage

We just count the months and the months when the rain is supposed to come, if we see it has passed and no rain then we know there will be drought.

[<Files\\H25>](#) - § 1 reference coded [1.07% Coverage]

Reference 1 - 1.07% Coverage

We look at mopani trees, if they have pods then there will be rain.

[<Files\\H26>](#) - § 1 reference coded [1.18% Coverage]

Reference 1 - 1.18% Coverage

No, we don't have indicators, we only try to listen on the radio about the weather.

[<Files\\H27>](#) - § 1 reference coded [0.84% Coverage]

Reference 1 - 0.84% Coverage

We look at trees and also observe rainfall months.

[<Files\\H28>](#) - § 1 reference coded [0.83% Coverage]

Reference 1 - 0.83% Coverage

We look at trees and also observe rainfall months.

[<Files\\H29>](#) - § 1 reference coded [0.83% Coverage]

Reference 1 - 0.83% Coverage

We look at trees and also observe rainfall months.

[<Files\\H3>](#) - § 1 reference coded [1.79% Coverage]

Reference 1 - 1.79% Coverage

Yes, we just look at the months of the year. If rain does not come in the month it usually comes, then we know, there will be drought.

[<Files\\H30>](#) - § 1 reference coded [1.20% Coverage]

Reference 1 - 1.20% Coverage

We look at red headed flies and mopane trees, parasite that grow on them.

[<Files\\H31>](#) - § 1 reference coded [1.02% Coverage]

Reference 1 - 1.02% Coverage

We look at the clouds and wind intensity as well as direction

[<Files\\H32>](#) - § 1 reference coded [2.60% Coverage]

Reference 1 - 2.60% Coverage

We look at the ribs of livestock to see whether rain will come or not and without livestock we don't have any indicators

[<Files\\H33>](#) - § 1 reference coded [1.68% Coverage]

Reference 1 - 1.68% Coverage

We look at flies with red heads and blue bodies, when we see them, there will not be any rain that year.

[<Files\\H35>](#) - § 1 reference coded [2.57% Coverage]

Reference 1 - 2.57% Coverage

I look at the Mopani trees, if there will be drought, there are usually many pods produced. We also look at the red headed flies because they indicate drought.

[<Files\\H38>](#) - § 1 reference coded [0.35% Coverage]

Reference 1 - 0.35% Coverage

We look at nothing.

[<Files\\H39>](#) - § 1 reference coded [1.40% Coverage]

Reference 1 - 1.40% Coverage

We look at nothing, we are caught off guard and therefore unable to prepare for anything.

[<Files\\H4>](#) - § 1 reference coded [3.70% Coverage]

Reference 1 - 3.70% Coverage

Yes, we have indicator plants that we look at, for example, the Anna tree (*Faidherbia albida*), if we observe that it is not producing pods, then there will likely be a drought that year. We also look at *Catophractes alexandri*, when the leaves are big, then we know there won't be any drought and these indicators really help us.

[<Files\\H40>](#) - § 1 reference coded [2.69% Coverage]

Reference 1 - 2.69% Coverage

We look at rainfall months. If we notice that the rain did not come in the expected month, then we are mostly likely not to get rain at all or very little for a short period of time

[<Files\\H41>](#) - § 1 reference coded [1.77% Coverage]

Reference 1 - 1.77% Coverage

We look at rainfall months. We also look at red insects that we call angels. They bring good news and if we see them, we know beyond a doubt that rain will come.

[<Files\\H42>](#) - § 1 reference coded [0.48% Coverage]

Reference 1 - 0.48% Coverage

We look at the sky and the vegetation

[<Files\\H43>](#) - § 1 reference coded [2.24% Coverage]

Reference 1 - 2.24% Coverage

We look at a type of fly that has a red head and a blue body, they indicate drought and once we see them, we know that there won't be any rain at all

[<Files\\H44>](#) - § 1 reference coded [5.87% Coverage]

Reference 1 - 5.87% Coverage

We kill a goat and remove the skin and dissect it and we look at the left side of the ribs, there are veins we look at that tells us whether the rain will come or not. If the veins are hanging then there will be rain. We also look at a group of stars and their position in the sky, we know by looking at them and where they are positioned in different times of the year, whether we will get rain or not. This is really effective.

[<Files\\H45>](#) - § 1 reference coded [5.40% Coverage]

Reference 1 - 5.40% Coverage

We kill a goat and remove the skin and dissect it and we look at the left side of the ribs, there are veins we look at that tells us whether the rain will come or not. We also look at the wind, if we get a westerly wind, then we won't get any rain at all. We only get rain if we receive easterly wind, so we observe the wind direction to tell us whether the rain will come or not.

[<Files\\H46>](#) - § 1 reference coded [2.89% Coverage]

Reference 1 - 2.89% Coverage

We only wait upon Good, there is nothing to warn us about drought at all. We wait to see if it will come in the respective months and if it doesn't come, we know drought is here indeed.

[<Files\\H47>](#) - § 1 reference coded [0.44% Coverage]

Reference 1 - 0.44% Coverage

We have no indicators at all

[<Files\\H48>](#) - § 1 reference coded [4.22% Coverage]

Reference 1 - 4.22% Coverage

We look at birds, there is a species of birds that we only see when there is drought and for those who have livestock, they can kill one and examine the gut and the ribs to see if there will be drought. This is for those who have livestock, sometimes they inform us.

[<Files\\H49>](#) - § 1 reference coded [1.53% Coverage]

Reference 1 - 1.53% Coverage

We don't look at anything and without livestock we can't also have any indication by using livestock.

[<Files\\H5>](#) - § 1 reference coded [2.93% Coverage]

Reference 1 - 2.93% Coverage

Yes, I look at the cabbages to show me whether there will be drought and this is observed in how they germinate. We can also look at milk production from the livestock to tell us whether there will be drought. If there will be drought, they produce less milk indeed.

[<Files\\H50>](#) - § 1 reference coded [0.34% Coverage]

Reference 1 - 0.34% Coverage

No indicators at all.

[<Files\\H52>](#) - § 1 reference coded [0.38% Coverage]

Reference 1 - 0.38% Coverage

We look at plant leaves

[<Files\\H53>](#) - § 1 reference coded [0.56% Coverage]

Reference 1 - 0.56% Coverage

We look at plant leaves and flowers

[<Files\\H54>](#) - § 1 reference coded [1.41% Coverage]

Reference 1 - 1.41% Coverage

We don't look at anything. We just observe the months and wait to see how things will turn out.

[<Files\\H55>](#) - § 1 reference coded [3.58% Coverage]

Reference 1 - 3.58% Coverage

2. Are there any plant indicators or any other biological indicators of floods or drought? If yes, have these been accurate indicators? Why or why not?

We kill a livestock and we look at the guts and ribs , the left ribs will show us and also the direction of the rain.

[<Files\\H57>](#) - § 1 reference coded [1.91% Coverage]

Reference 1 - 1.91% Coverage

We look at the Marula trees but this year I didn't quite go and look at them. The flowering times shows us when rain will come

[<Files\\H58>](#) - § 1 reference coded [1.06% Coverage]

Reference 1 - 1.06% Coverage

It is the elders who have the knowledge and we just listen from them.

[<Files\\H59>](#) - § 1 reference coded [2.60% Coverage]

Reference 1 - 2.60% Coverage

We look at some trees and these trees normally produce fruits or flowers before the rain. When we observe that they don't flower or produce fruits then we know drought is coming

[<Files\\H6>](#) - § 1 reference coded [0.39% Coverage]

Reference 1 - 0.39% Coverage

We don't have any indicators

[<Files\\H60>](#) - § 1 reference coded [1.18% Coverage]

Reference 1 - 1.18% Coverage

We look at mopani, if it produces more pods then we will not have any rain that year.

[<Files\\H7>](#) - § 1 reference coded [2.82% Coverage]

Reference 1 - 2.82% Coverage

We know which months the rain usually starts, if we notice that it does not come, then it rings alarm bells and we know the drought is here. Also when the leaves of plants start drying out and becoming yellow, then we know there's drought.

[<Files\\H8>](#) - § 1 reference coded [0.77% Coverage]

Reference 1 - 0.77% Coverage

Nothing indicates anything to us, we just depend on God.

[<Files\\I12>](#) - § 1 reference coded [0.66% Coverage]

Reference 1 - 0.66% Coverage

We don't have any indicators

[<Files\\I13>](#) - § 1 reference coded [1.82% Coverage]

Reference 1 - 1.82% Coverage

We don't have anything to warn us about drought, so we are in the dark

[<Files\\I14>](#) - § 1 reference coded [4.30% Coverage]

Reference 1 - 4.30% Coverage

We look at Mopani leaves, they produce what we call uutwishi, edible and liked by children, if we see them, then for sure the rain will come. For so many years, we have not seen them

[<Files\\I15>](#) - § 1 reference coded [2.75% Coverage]

Reference 1 - 2.75% Coverage

We use a goat that we kill and dissect to see the veins in the gut and in the ribs, this tells us why there will be rain or not.

[<Files\\K13>](#) - § 1 reference coded [0.61% Coverage]

Reference 1 - 0.61% Coverage

We just observe the clouds.

[<Files\\K14>](#) - § 1 reference coded [1.34% Coverage]

Reference 1 - 1.34% Coverage

We just wait to see if it will rain or not, we don't look t anything.