

CBPP VACCINE: ESTIMATION COVERAGE & CERTIFIED DOSES (2018-2022)

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Outline



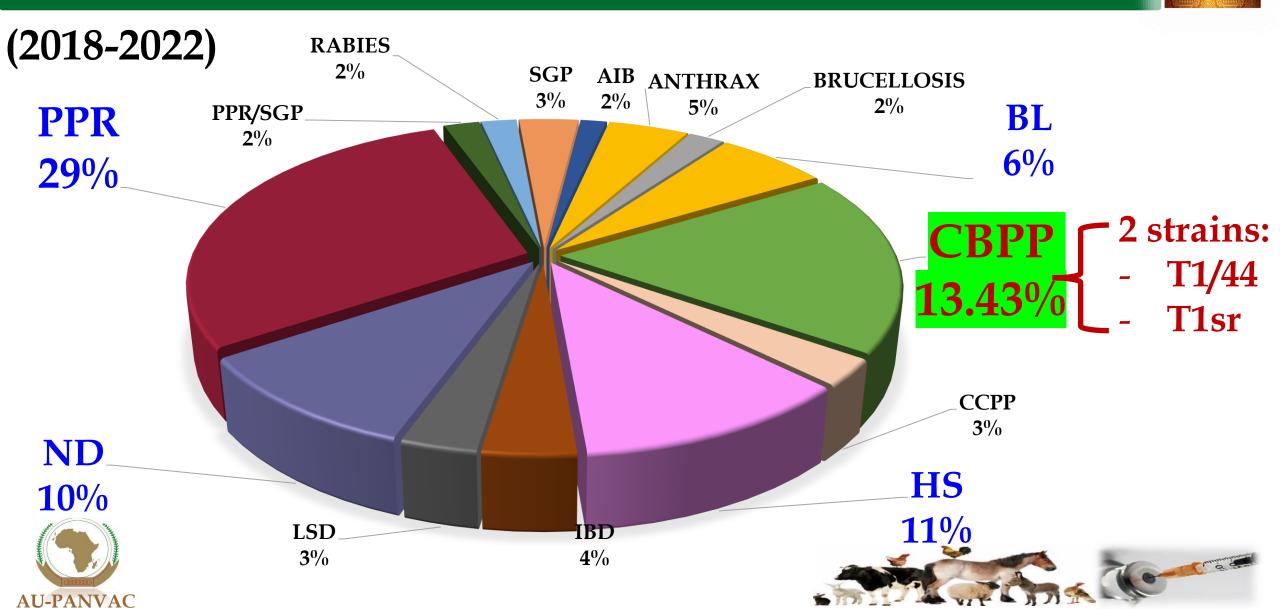
- ❖ CBPP Vaccines Received at AU-PANVAC
- Laboratories Producing CBPP Vaccine in Africa
- ❖ CBPP Vaccines Received for Certification at AU-PANVAC
- Estimation of Certified CBPP Vaccines Doses
- ❖ Pass rate for quality control tests on the CBPP vaccine and analysis of the causes of test failure
- Estimated CBPP Vaccine Coverage
- Conclusion





Major Veterinary Vaccines Received for QC





CBPP Vaccines Batches Received for QC



Year	Total No of All Batches of Vaccines Received for QC	No of Batches of CBPP Vaccine Received	Proportion
2018	303	48	15.8%
2019	385	53	13.8%
2020	182*	28	15.4 %
2021	221*	16	7.2%
2022	331	49	14.8 %
Total	1422	194	13.6%

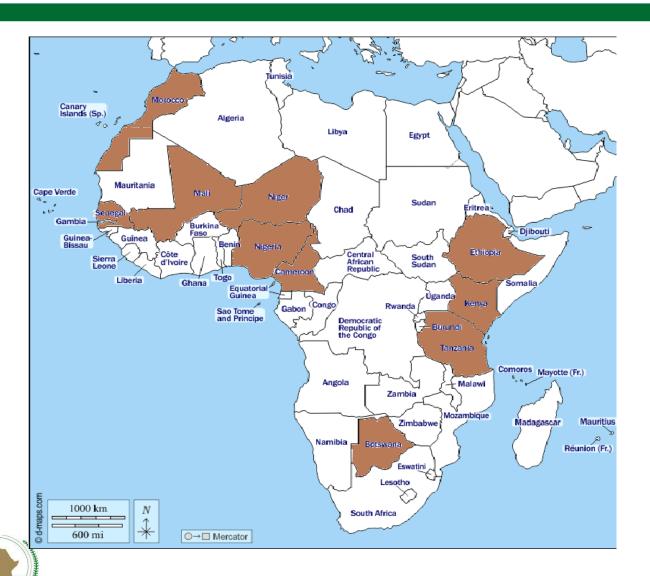
* The number of batches received significantly reduced in 2020 & 2021 due to COVID

AU-PANVAC



Laboratories Producing CBPP vaccine in Africa





AU-PANVAC

1. Northern Africa

MOROCCO (MCI)

2. Western & Central Africa

- **CAMEROUN** (LANAVET)
- MALI (LCV)
- NIGERIA (NVRI)
- NIGER (LABOCEL)
- **SENEGAL** (ISRA-Production)

3. Eastern Africa

- ETHIOPIA (NVI)
- **KENYA** (KEVEVAPI)
- TANZANIA (TVI, HESTER)

4. Southern Africa

BOTSWANA (BVI)



Certified CBPP vaccines from African



CONTRY/LABORATORY	2018	2019	2020	2021	2022
BOTSWANA (BVI)	6,896,600	4,300,000	-	-	-
KENYA (KEVEVAPI)	-	1,206,000	-	-	-
ETHIOPIA (NVI)	33,750,000	15,000,000	16,250,000	3,750,000	20,000,000
TANZANIA (HESTER)	-	-	-	-	2,000,000
TANZANIA (TVI)		900,000		-	-
CAMEROUN (LANAVET)	2,265,600	1,907,150	2,711,600	1,174,300	2,985,100
NIGERIA (NVRI)	-	-	-	-	-
NIGER (LABOCEL)	866,800	-	-	420,000	-
MALI (LCV)	2,385,300	3,010,050	1,519,800	2,980,000	-
SENEGAL (ISRA)	720,000	960,000	840,000	-	1,440,000
MOROCCO (MCI)	2,250,000	8,820,000	-	-	-
Total	49,134,300	36,103,200	21,321,400	8,324,300	26,425,100

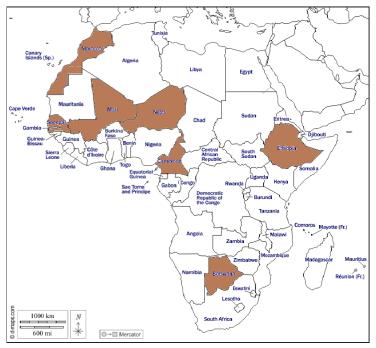




Laboratories Submitting CBPP Vaccine for QC 2003



2018 (7)



Botswana (BVI) - 6

Niger (LABOCEL) - 2

Ethiopia (NVI) - 14

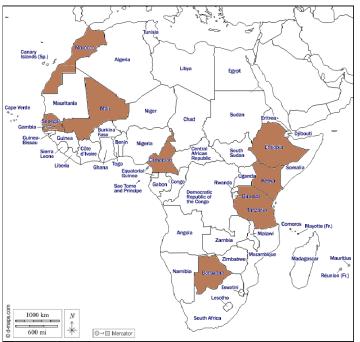
Cameroon (LANAVET) - 2

Mali (LCV) - 2

Senegal (ISRA) - 6

Morocco (MCI) - 3

2019 (8)



Morocco (MCI) - 12

Tanzania (TVI) - 3

Botswana (BVI) - 2

Kenya (KEVEVAPI) - 1

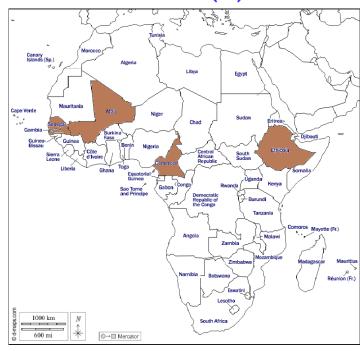
Mali (LCV) - 3

Camer. (LANAVET) - 4

Ethiopia (NVI) - 6

Senegal (ISRA) - 8

2020 (4)



Ethiopia (NVI) - 7

Camer. (LANAVET) - 4

Senegal (ISRA) - 7

Mali (LCV) - 1

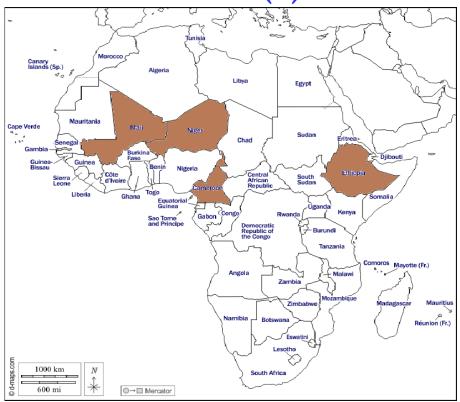




Laboratories Submitting CBPP Vaccine for QC.

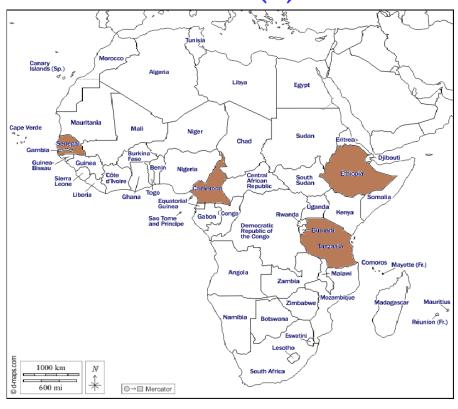


***** 2021 **(4)**



Ethiopia (NVI) - 2 Niger (LABOCEL) - 1 Mali (LCV) - 2 Camer. (LANAVET) -1

***** 2022 **(4)**



Senegal (ISRA) - 12

Ethiopia (NVI) - 8

Tanzania (HESTER) - 2

Camer. (LANAVET) - 2



CBPP VACCINES CERTIFIED FROM OUTSIDE AFRICA



No of doses certified from outside Africa (JOVAC, JORDAN)

	2018	2019	2020	2021	2022
Batches	_	7	7	5	5
Doses	-	100,000,000	40,500,000	45,000,000	21,000,000



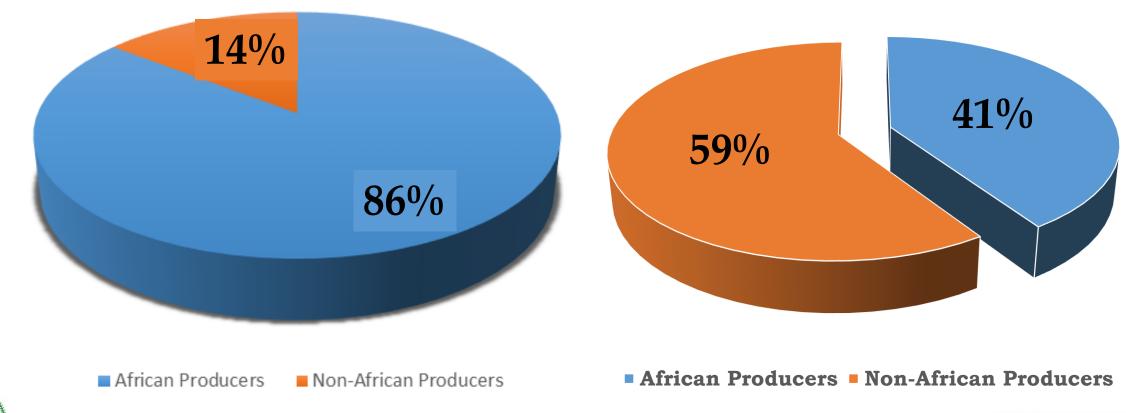


CBPP Vaccine Batches & Doses - Origin



2018-2022: Number of batches

Number of doses





Proportion of CBPP Vaccine T1/44 & T1sr Certified



Vaccine Strain	2018	2019	2020	2021	2022
T1/44 (Batches)	28 (82.4%)	38 (84.4%)	24 (92.3%)	6 (55.5%)	25 (86.2%)
T1/44 (Doses)	37,781,400 (76.9%)	112,129,650 (82.4%)	60,182,050 (97.3%)	45,420,000 (85.2%)	39,440,000 (83.2 %)
T1sr (Batches)	6 (17.6%)	7 (15.6%)	2 (7.7%)	5 (45.5%)	4 (13.8%)
T1sr (Doses)	11,352,900 (23.1%)	23,973,550 (17.6%)	1,639,350 (2.7%)	7,904,300 (14.8%)	7,985,100 (16.8%)
Total (Doses)	49,134,300	136,103,200	61,821,400	53,324,300	47,425,100
Total (Batches)	34	45	26	11	29

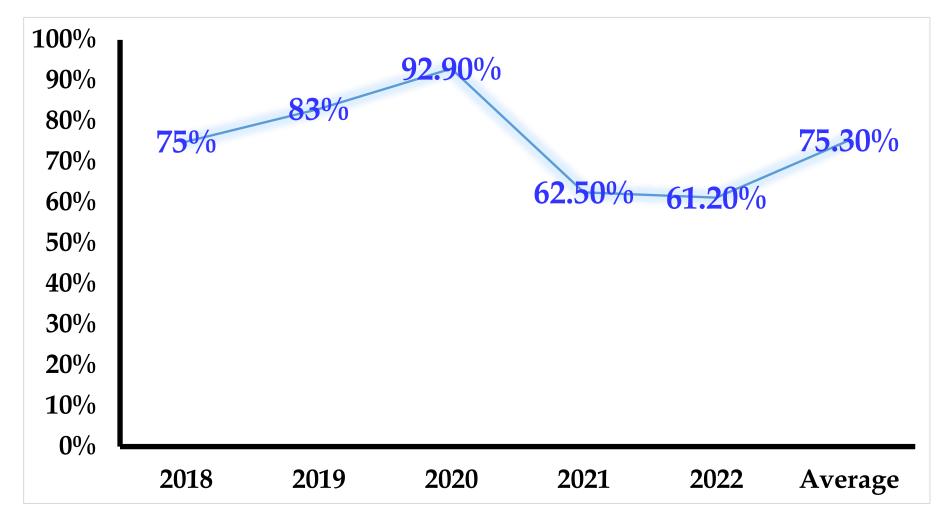




CBPP VACCINE PASS RATE







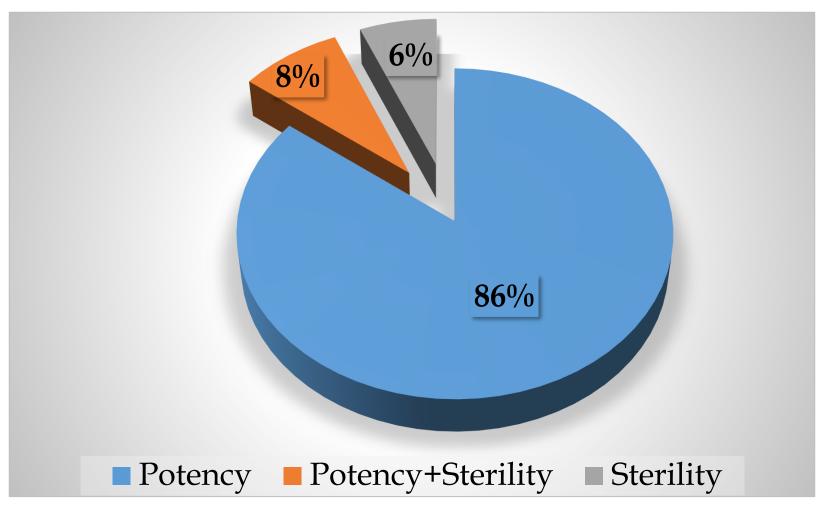






Reasons of CBPP Vaccine Failure





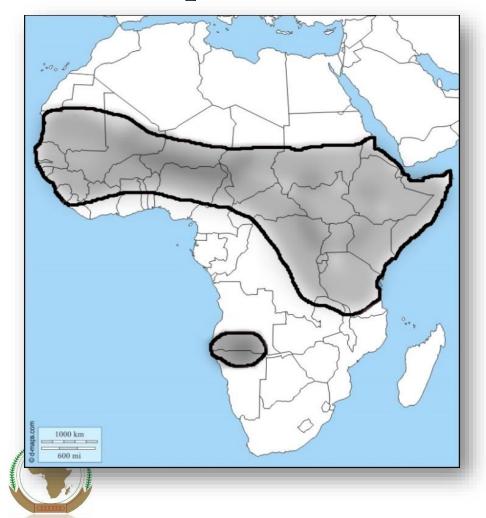




ESTIMATED CBPP VACCINE COVERAGE



Cattle Population in Africa at risk of CBPP infection: 256,420,000 heads



AU-PANVAC

- ❖ Minimum of 200 million doses/year needed for vaccination of 80% of cattle population at CBPP risk:
- Gaps Certified and Required Vaccines:

o 2018: **49,134,300 (24.6%)**

o 2019: **136,103,200 (68.1%)**

o 2020: **61,821,400 (30.9%)**

o 2021: **53,324,300 (26.7%)**

o 2022: **47,425,100 (23.7%)**

Conclusion



- □ CBPP vaccine pass rate is around 75% is below the pass of rate of total vaccine batches tested (90%)
 - Main causes of failure 86.4% is due to potency
 - Therefore, Laboratories need assistance to enhance vaccine quality
- ☐ There's a gap between certified vaccines and the required doses
- ☐ There's a need to increase the CBPP vaccine production capacity in most labs
- □T1/44 represent the main vaccine strain produced





Synergies and Partnerships







AU-MSD

AU-MS Vaccine Producing Labs

Regional Animal Health Centre in the RECs





















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