Species and clonal hybrid trials, and other breeding infrastructure, established by members of the Tree Improvement Research Working Group during 2014-2017 (May 2017)

FORESTRY DEVELOPMENT TRUST
UENDELEZAJI MISITU TANZANIA

		Warm Temperate MAT 17-21 °C ALT 1500 - 2400m									Sub Tropical MAT 21-24 °C ALT 1000 - 1500m			Tropical MAT 24-30 °C ALT 100 - 500m		INDUSTRIAL USES					
		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME	**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
Eucalyptus																					
E. alba	CSIRO-Australia																X		X	X	
E. benthamii	ICFR																		X	X	
E. benthamii	CSIRO-Australia																		X	X	
E. biturbinata	CSIRO-Australia																		X	X	
E. botryoides	ZFC															X		X			
E. camaldulensis	ZFC															X	X			X	
E. camaldulensis	TTSA-Igumbilo															X	X			X	
E. cloeziana	KLF															X	X				
E. cloeziana	ZFC															X	X				
E. cloeziana	Brazil (GRL)															X	X				
E. dunnii	SAPPI															X				X	
E. dunnii	ICFR															X				X	
E. globulus ssp. *bicostata*	CSIRO-Australia															X	X			X	
E. globulus ssp. *maidenii*	TTSA-Ifunda (2014)															X	X		X	X	
E. globulus ssp. *maidenii*	CSIRO-Australia															X	X		X	X	
E. globulus ssp. *pseudoglobulus*	CSIRO-Australia															X	X			X	
E. globulus ssp. *globulus*	CSIRO-Australia															X	X		X	X	X
E. globulus s sp. *globulus*	Shell Forestry															X	X		X	X	X
E. grandis	TTSA 2014															X	X	X	X	X	
E. grandis	Zimbambwe															X	X	X	X	X	
E. grandis	New forestry (RSA)															X	X	X	X	X	
E. grandis	Merensky low split 2013															X	X	X	X	X	
E. grandis	Mondi-Panbult															X	X	X	X	X	
E. grandis	Mondi -7oaks															X	X	X	X	X	
E. grandis	SAPPI															X	X	X	X	X	
E. grandis	Fort Portal (GRL)															X	X	X	X	X	
E. longirostrata	ICFR															X			X	X	
E. macarthurii	SAPPI																		X	X	
E. macarthurii	ICFR																		X	X	
E. microcorys	CSIRO-Australia															X			X	X	

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		Warm Temperate MAT 17-21 °C ALT 1500 - 2400m									Sub Tropical MAT 21-24 °C ALT 1000 - 1500m			Tropical MAT 24-30 °C ALT 100 - 500m		INDUSTRIAL USES					
		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME	**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
E. maidenii	TTSA															X	X		X	X	
E. nitens	SAPPI															X	X		X		
E. nitens	ICFR															X	X		X		
E. paniculata	SFS															X	X				
E. paniculata	Shell Forestry															X	X				
E. pellita	SAPPI																X		X		
E. pellita	TTSA-KIROKA																X		X		
E. pilularis	CSIRO-Australia															X	X				
E. punctata	CSIRO-Australia																		X	X	
E. resinifera	CSIRO-Australia																		X	X	
E. robusta	TTSA-Kihanga															X				X	
E. saligna	Merensky_RSA															X	X	X	X	X	
E. saligna	Mondi-7oaks															X	X	X	X	X	
E. smithii	SAPPI															X			X	X	X
E. smithii	ICFR															X			X	X	X
E. tereticornis	Shell Forestry																X			X	
E. tereticornis	SF 1019																X			X	
E. tereticornis	TTSA-DODOMA																X			X	
E. urophylla	SAPPI																X			X	
E. urophylla	CSIR ex-boschoek																X			X	
E. urophylla	Honduras (GRL)																X			X	
E. urophylla	Brazil (GRL)																X			X	
E. argophloea	Nseleni-RSA																			X	
E. badjensis	CSIRO-Australia																		X	X	
E. badjensis	ICFR																		X	X	
E. coolabah	CSIRO-Australia																			X	
E. globulus ssp. *globulus*	CSIRO-Australia															X	X		X	X	X
E. badjensis	SAPPI																		X	X	
Mysore Gum (E.tereticornis x E. camaldulensis)	Shell Forestry															X			X	X	
E. viminalis	SAPPI																		X	X	
E. dorrigoensis	ICFR																		X	X	

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UENDELEZAJI MISITU TANZANIA

			Warm Temperate MAT 17-21 °C ALT 1500 - 2400m									Sub Tropical MAT 21-24 °C ALT 1000 - 1500m			Tropical MAT 24-30 °C ALT 100 - 500m		INDUSTRIAL USES					
			2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME		**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
Eucalyptus Clonal Hybrid																						
GHU1	(*E. grandis x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHU2	(*E. grandis x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHU3	(*E. grandis x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHU4	(*E. grandis x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHU5	(*E. grandis x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHU6	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU7	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU8	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU9	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU10	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU11	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU12	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU13	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU14	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU15	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU16	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU17	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU18	(*E. grandis x E. urophylla*)	ZULULAND _ RSA															X	X		X	X	
GHU19	(*E. grandis x E. urophylla*)	EZIGRO_RSA															X	X		X	X	
GHU20	(*E. grandis x E. urophylla*)	EZIGRO_RSA															X	X		X	X	
GHN1	(*E. grandis x E. nitens*)	CSIR_RSA															X	X		X	X	
GHN2	(*E. grandis x E. nitens*)	CSIR_RSA															X	X		X	X	
GHN3	(*E. grandis x E. nitens*)	CSIR_RSA															X	X		X	X	
GHN4	(*E. grandis x E. nitens*)	CSIR_RSA															X	X		X	X	
GHN5	(*E. grandis x E. nitens*)	EZIGRO_RSA															X	X		X	X	
GHN5	(*E. grandis x E. nitens*)	CSIR															X	X		X	X	
GHN6	(*E. grandis x E. nitens*)	CSIR_RSA															X	X		X	X	
SHU1	(*E. saligna x E. urophylla*)	CSIR_RSA															X	X		X	X	
GHC1	(*E. grandis x E. camaldulensis*)	MERENSKY															X	X		X	X	
GHC1	(*E. grandis x E. camaldulensis*)	COMERCIAL - RSA															X	X		X	X	

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UENDELEZAJI MISITU TANZANIA

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		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME	**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
GHC2 *(E. grandis x E. camaldulensis)*	COMERCIAL - RSA															X	X		X	X	
GHT1 *(E. grandis x E. tereticornis)*	ZULULAND _ RSA															X	X		X	X	
GC584 *(E. grandis x E. camaldulensis)*	GRL_MAKUNGU															X	X		X	X	
GC 581 *(E. grandis x E. camaldulensis)*	GRL_MAKUNGU															X	X		X	X	
GC15 *(E. grandis x E. camaldulensis)*	GRL_MAKUNGU															X	X		X	X	
GU7 *(E. grandis x E. urophylla)*	GRL_MAKUNGU															X	X		X	X	
GU8 *(E. grandis x E. urophylla)*	GRL_MAKUNGU															X	X		X	X	
E8 *(E. grandis x E. urophylla)*	Shell Forestry															X	X		X	X	
E33 *(E. urophylla x E. grandis)*	Shell Forestry															X	X		X	X	
GXC_167 *(E. grandis x E. camaldulensis)*	Kibaha TAFORI															X	X		X	X	
GXC_940 *(E. grandis x E. camaldulensis)*	Kibaha TAFORI															X	X		X	X	
GU 210 *(E. grandis x E. urophylla)*	GRL_MAKUNGU															X	X		X	X	
GU 608 *(E. grandis x E. urophylla)*	GRL_MAKUNGU															X	X		X	X	
E. grandis E17 *control*	Zimbabwe															X	X		X	X	
Urograndis *(Natural hybrid)*	GRL_MAKUNGU															X	X		X	X	
E. camadulensis x E. grandis *(Natural hybrid)*	BRAZIL(GRL)															X	X		X	X	
E. grandis E16 *control*	TTSA 2014															X	X		X	X	
Pine pure species / Clonal Hybrid																					
P. caribaea var. *bahamensis* (ACB12)	CSIR																X		X		
P. caribaea var. *bahamensis* (ACH348)	CSIR																X		X		
P. caribaea var *hondurensis*	Zimbabwe																X		X		
P. caribaea var. *hondurensis* (Brazil)	Brazil (GRL - 2016)																X		X		
P. caribaea var. hondurensis(Honduras)	Gauntemala (GRL-2016)																X		X		
P. caribaea var *hondurensis*	Honduras																X		X		
P. caribaea var *hondurensis*	Honduras (GRL-2014)																X		X		
P. caribaea var hondurensis	Brazil (GRL - 2014)																X		X		
P. elliottii x *P. caribaea*	Australia(New forest)																X		X		
P. elliottii x *P. caribaea*	CSIR																X		X		
P. elliottii x *P. caribaea* var. homd.	Honduras																X		X		
P. elliottii	RSA-Ezigrow																X		X		
P. gregii (North)	YORK TIMBERS																X		X		

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		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME	**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
P. gregii (South)	YORK TIMBERS																X		X		
P. gregii (South)	SAPPI																X		X		
P. kesiya (P8)	ZFC																X		X		
P. kesiya (P15)	ZFC																X		X		
P. maximinoi	Zimbambwe (GRL-2016)																X		X		
P. maximinoi	Honduras (GRL-2016)																X		X		
P. maximinoi	Honduras (GRL - 2014)																X		X		
P. maximinoi	Zimbabwe (GRL - 2014)																X		X		
P. maximinoi	Tatumbla (GRL - 2014)																X		X		
P. oocarpa	ZFC																X		X		
P. oocarpa	Honduras (GRL-2016)																X		X		
P. oocarpa	GRL_MAKUNGU																X		X		
P. patula x *P. tecunumanii* (high) - PHAT1	RSA-Ezigrow																X		X		
P. patula x *P. tecunumanii* (low) - PHAT2	RSA-Ezigrow																X		X		
P. patula	YORK TIMBERS																X		X	X	
P. patula	TTSA (Control)																X		X	X	
P. patula	Zimbabwe (Control)																X		X	X	
P. patula C	SAPPI																X		X	X	
P. patula	Ezygro																X		X	X	
P. taeda	YORK TIMBERS																X		X		
P. tecunumanii	(KLF)																X		X		
P. tecunumanii	Honduras (GRL-2016)																X		X		
P. tecunumanii	Zimbambwe (GRL-2016)																X		X		
P.tecunumanii (Yukul)	GRL_MAKUNGU																X		X		
P. tecunumanii (Jocon)	GRL_MAKUNGU																X		X		
P. elliottii x *P. caribaea* var. homd.	RSA-Ezigrow																X		X		

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		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
SPECIES / CLONAL NAME	**LOCALITY / ORIGIN**	MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils
P. taeda	RSA-Ezigrow																X		X		
P. taeda	SAPPI-USUTU																X		X		
P. caribaea var. *caribaea* (PCC232/PCC118)	CSIR																X		X		
P. elliottii . x *P. caribaea* (PEHC1)	CSIRO																X		X		
P. elliottii x *P. caribaea* (CHC1)	CSIRO																X		X		
P. caribaea x *P. elliottii*	GRL_MAKUNGU																X		X		
P. patula x *P. tecunumanii* (low)	Commercial - RSA																X		X		
Corymbia Species / Clonal Hybrid																					
C. citriodora	ZFC															X	X			X	X
C. citriodora	TTSA-(Mkundi)															X	X			X	X
C. citriodora ssp citriodora	CSIRO-Australia															X	X			X	X
C. citriodora ssp variegata	CSIRO-Australia															X	X			X	
C. henryi	CSIRO-Australia															X	X		X	X	
C. henryii	ICFR															X	X		X	X	
C. maculata	TTSA-Kibwabwa															X		X			
C. maculata	CSIRO-Australia															X		X			
C. maculata	RSA															X		X			
C. torreliana	RSA-CRI															X	X			X	
C. torreliana	Shell forest															X	X			X	
C. citriodora	TZ															X	X			X	
C. henryi	KWAMBO-ZDL															X	X		X	X	
C. maculata	ZFC															X		X			
C. torelliana x *C. henryii* (Seedling hybrid)	Zululand_RSA															X	X		X	X	
C. torelliana x *C. henryii* (Clonal hybrid)	Zululand_RSA															X	X		X	X	
C. torelliana x *C. henryii* (Clonal hybrid)	Zululand_RSA															X	X		X	X	
C. torelliana x *C. henryii* (Clonal hybrid)	Zululand_RSA															X	X		X	X	
Casuarina																					
C. equisetifolia	ST. Lucia - RSA															X				X	
C. equisetifolia	Kwambonambi - RSA															X				X	
C. equisetifolia	TTSA															X				X	
C. junghuhniana	ZFC - Zimbabwe															X				X	

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		2400	1805	1800	1800	1800	1800	1725	1700	1800	1300	1200	1200	380	200						
		MAKETE Catholic Church	MBIZI For. Plant. TFS Agency	LWANGU Catholic Church	SAO HILL For. Plant. TFS Agency	TANWAT (#1) Njombe	TANWAT (#2) Njombe	KISOLANZA Kisolanza Farms	LUKOSI - KILOLO New Forest Co.	TUKUYU - RUNGWE Moravian Church	UCHINDILE (#1) Green Resources	UCHINDILE (#2) Green Resources	IFINGA - WINO TFS Agency	NAKAFURU - MALINYI KVTC	RUVU For. Plant. TFS Agency	Poles	Saw timber	Veneer & plywood	Pulp & paper	Bioenergy	Essential oils

BREEDING POPULATIONS

SPECIES / CLONAL NAME	LOCALITY / ORIGIN	Warm Temperate MAT 17-21 °C ALT 1500 - 2400m	
		1800	1800
		SAO HILL For. Plant. TFS Agency (2017)	TANWAT Njombe (2017)
Pinus patula	RSA & Local Seed (Plus Trees)	400 families	400 families
Eucalyptus grandis	RSA & Local Seed (Plus Trees)	400 families	400 families