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**Development of an effective phytosanitary report certification system for
South African compliance with the European market**

By

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DECLARATION

I, the under signed hereby declare that the work reported is the result of my original research findings

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DEDICATION

This thesis is dedicated to my husband Morne Bezuidenhout and my children: Zander, Isane and Juandre for their enormous love, commitment and support during my studies. Without you, this would not have been possible.

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LIST OF ACRONYMS

ANC	African National Congress
APIS	Agricultural Product Inspection Services
CFSP	Common Foreign and Security Policy
DOA	Department of Agriculture
ECSC	European Coal and Steel Community
EEC	European Economic Community
EU	European Union
FAO	Food and Agriculture Organisation
FTA	Free trade agreement
GATT	General Agreement on Tariffs and Trade
GDP	Gross domestic product
IMF	International Monetary Fund
IPPC	International Plant Protection Convention
JSE	Johannesburg Stock Exchange
NPPPIIS	National Plant and Plant Product Inspection Services
NPPO	National Plant Protection Organisation
NTBs	non-tariff barriers
OECD	Organisation for Economic Co-operation and Development
PCE	Phytosanitary Capacity Evaluation
PPECB	Perishable Product Export Control Board
PRA	Pest Risk Analysis
SACU	South African Customs Union
SADC	South African Development Community
SAFEX	South African Futures Exchange
SOP	Standard Operation Procedures
SPS	Sanitary and Phytosanitary
TDCA	Trade, Development and Co-operation Agreement



UNCTAD	United Nations Conference on Trade and Development
WTO	World Trade Organisation
WTO SPS Agreement	World Trade Organisation's Agreement on the Application of Sanitary and Phytosanitary Measures

CHAPTER ONE

INTRODUCTION

1.1 OBJECTIVE

The objective of this study is to develop an effective phytosanitary report certification system for South African compliance with the European market.

1.2 SPECIFIC AIMS

1. To identify phytosanitary constraints faced by the South African Export Regulatory System.
2. To evaluate the phytosanitary certification system currently used by the National Plant Protection Organisation (NPPO) of South Africa with regard to exports of agricultural produce to the European market.
3. To develop a certification guide to equip the NPPO of South Africa with the necessary technical assistance to ensure compliance with the European Union's phytosanitary regulations.

1.3 RELEVANCE STATEMENT

The South African economy, including agriculture, is increasingly integrated in world markets (Jooste and Spies, 2006). Three major political and economic developments of the 1990s contributed to this process. The most important was the lifting of economic sanctions against South Africa following the accession in 1994 of a democratic government. The next radical change was the repeal of the Marketing Act of 1937, which led to establishment of a much freer economic and entrepreneurial environment with major reduction in government interventions in domestic production, marketing and trade. The opening of the agricultural sector placed South Africa among the world's leading exporters of agro-food products

such as wine, fresh fruit and sugar (OECD, 2006). The beginning of the current decade witnessed particularly strong agricultural growth. The Department of Agriculture (2007a) pointed out that primary commercial agriculture contributes about 2,3% to South Africa's gross domestic product (GDP) in 2006, but accounts for 10% to total reported formal employment. Europe is by far the largest Agricultural trade balance importer, absorbing almost one-half of the country's agricultural exports.

As a result of agreements negotiated at the World Trade Organisation (WTO), traditional trade protection measures such as tariffs and quotas are falling away (WTO, 1995). But to some extent they are being replaced by domestic technical regulations that permit countries to bar products from entering their markets if the products do not meet certain standards. To become and remain competitive, producers and suppliers must meet the Sanitary and Phytosanitary (SPS) requirements set by importers' governments in importing countries. Some SPS measures are very simple and specific, but others are combined in extremely complex systems like the requirements (set out in hundreds of pages of legislation and guidance documents) governing the import of plants and plant products for entry in to the European Union (EU). At the same time, SPS policies will likely become more complex and enforcement more stringent as trade becomes more liberalized (Henson, Loader, Swinbank, Bredhal and Lux, 2000).

The expansion of world trade has placed a huge responsibility on the NPPO of South Africa to facilitate safe agricultural trade with its international trading partners. Lack of knowledge and the inability to meet international market requirements are, however, the most fundamental impediments to accessing foreign markets. The accuracy of the phytosanitary certificate it issues is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This has immediate and potentially serious repercussions for all stakeholders and severely affects industries that depend wholly on specific

markets. It is for these reasons that countries must strengthen their export certification services.

The NPPO of South Africa do experience capacity constraints in its phytosanitary export regulatory system mostly due to the recent restructuring of the National Department of Agriculture (DOA 2007a) and the lack of standards and standard operational procedures which greatly impact on its ability to implement its obligations under the World Trade Organisation's (WTO) Agreement on the Application of Sanitary and Phytosanitary Measures (WTO SPS) and the International Plant Protection Convention (IPPC). As no phytosanitary capacity evaluation for South Africa has been done to date, it is crucial to evaluate their export certification system to identify the major challenges experienced by the NPPO officials in phytosanitary certification to the European markets, because of its immense importance in the international trade arena.

1.4 OUTLINE OF THE DISSERTATION

This dissertation is divided into six chapters. Following the introduction in Chapter one, Chapter two are dedicated to the South African economy and agricultural sector, which are discussed in some detail. This includes globalisation and international trade issues. The European Union as an important export market for South Africa is also discussed in this Chapter, which includes an overview of the European market's legislative requirements. At the end of the second Chapter, the South African Phytosanitary export regulatory system is summarized.

The third Chapter is dedicated to the identification of the phytosanitary constraints faced by the South African export regulatory system. The key resources relating to capacity have been analyzed with the aim of highlighting the weaknesses. Based on the author's background experience, certain interpretations and analysis could be made. Further information was obtained

from the current PCE (Phytosanitary capacity evaluation) studies conducted by the Department of Agriculture for South Africa. The thematic areas studied also form the control points and compliance criteria for the Food and Agricultural Organisation (FAO) tool kit (the PCE) that measures a country's capacity to comply with Sanitary and Phytosanitary (SPS) measures.

The evaluation of the phytosanitary certification system currently used by the National Plant Protection Organisation (NPPO) of South Africa with regards to exports to the European market is considered in Chapter four. This Chapter is based on a data gathering task which included questionnaires, telephonic interviews and personal and email communications with various stakeholders.

Chapter five is dedicated to the development of a phytosanitary report certification system for South African compliance with the European market. In the final Chapter (Chapter six) the results of Chapter three and Chapter four are discussed. The major weaknesses of the phytosanitary certification system are presented and recommendations made to improve the perceived problems. Ideas for future work as well as a brief summary of what has been achieved concluded this dissertation.

1.5 LITERATURE CITED

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CHAPTER 2

LITERATURE REVIEW

2.1 SOUTH AFRICAN ECONOMY AND THE AGRICULTURAL SECTOR

2.1.1 Brief overview of the South African economy

South Africa is one of the largest countries on the African continent, which includes a population of 46,9 million and a surface area of 1,22 million square kilometres. With a per capita gross domestic product (GDP) of US\$ 3530, South Africa is also the largest African economy. This is more than 4 times the African average (OECD, 2006).

The CIA (2007) pointed out that South Africa is middle –income, emerging market with an abundant supply of natural recourses. Growth has been robust since 2004, as South Africa has reaped the benefits of macroeconomic stability and a global commodities boom. It is further stressed by Burger (2007) that the economy of South Africa is now stronger than any time in the past 20 years. It expanded by about 5% in 2005, and continued growth at about 5% a year over the period. Even though the recent performance of the South African economy has generally been positive, investment and output growth are still below the levels necessary to reduce unemployment and to achieve a more equitable income distribution (OECD, 2006). The CIA (2007) stated that unemployment remains high and outdated infrastructure has constrained economic growth and that daunting economic problems remained from the apartheid era.

The crucial preconditions for agricultural and rural development in South Africa are macroeconomic stability and economic growth above the current rate. According to the Organisation for Economic Co-operation and Development (2006), higher economic growth, in a country like South Africa, is inconceivable without easing profound humanitarian problems. These problems are largely

occurring in the rural areas, and agricultural development has a vital role to play in its resolution. This circular dependence between agriculture and economic growth on the one hand and human development on the other ultimately represents the most difficult challenges for South African policy makers.

2.1.2 Agriculture as a key sector of the South African economy

The South African agricultural sector, unlike in other African countries, is not dominated by subsistence farming. South Africa has a dual agricultural economy, comprising a well-developed commercial sector and a predominantly subsistence-oriented sector in the rural areas (Burger, 2007).

Covering 1,2 million square kilometres of land, South Africa is one-eighth the size of the United States of America and has seven climatic regions, from Mediterranean to subtropical to semi-desert (CIA, 2007). The country can be subdivided into a number of farming regions according to climate, natural vegetation, types of soil and the type of farming practiced (Burger, 2007). Due to the country's varied climate, many different crops are grown.

This biodiversity, together with a coastline 3000 kilometres long and served by seven commercial ports, favours the cultivation of a highly diverse range of marine and agricultural products, from deciduous, citrus and subtropical fruit to grain, wool, cut flowers, livestock and game. About 12% of South Africa's surface area can be used for crop production. High potential arable land comprises only 22% of total arable land. Some 1,3 million hectares (ha) are under irrigation. The most important factor limiting agricultural production is the availability of water. Rainfall is distributed unevenly across the country. Almost 50% of South Africa's water is used for agricultural purposes (Burger, 2007).

Today, South Africa is not only self-sufficient in virtually all major agricultural products, but in a normal year is also a net food exporter. However, with very low

average rainfall and high variability within and between seasons, agriculture is vulnerable to the effects of drought. Owing to its geographical location, some parts of South Africa are prone to drought. When there is a major drought, there is strong downward pressure on GDP. In good years however, the contribution of agriculture can be vital to lifting the economy of the Southern African region (Burger, 2007).

According to the Department of Agriculture (2007b), the value of commercial agricultural production in South Africa was R 96 billion in 2007, while its contribution to the gross domestic product (GDP) was approximately R 49 billion. The primary agricultural sector has grown by an average of approximately 11, 8% per annum since 1970, while the total economic growth was 14, and 9% per annum over the same period, resulting in a decline in the agricultural share of the GDP from 7,1% in 1970 to 2, and 3% in 2006. The Department of Agriculture (2007a) pointed out that primary commercial agriculture contributes about 2,3% to South Africa's gross domestic product (GDP) in 2006, but accounts for 10% to total reported formal employment.

Despite its relatively small share of the total GDP, primary agriculture is an important sector in the South African economy, especially in the rural areas, and a major earner of foreign exchange. Agriculture's prominent indirect role in the economy is a function of backward and forward linkages to other sectors. About 70% of agricultural output is used as intermediate products in the sector. Agriculture is therefore a crucial sector and an important engine of growth for the rest of the economy (Department of Agriculture 2007b).

2.1.3 Agricultural policy reforms: deregulation and market freedom

South Africa has undergone immense economic, social and political changes since the beginning of the democratization process in 1994. The overall results of the reforms to date have been positive, with a stronger and stable macro

economy, better integration into the global trading system, and some progress in redressing past injustices. Since the end of apartheid in 1994, South African agriculture has evolved from a highly regulated and protected industry to one free from all constraints, unsubsidized by government and capable of competing with the best in the world (Viljoen, 2005).

The South African economy, including agriculture, is increasingly integrated in world markets (Jooste and Spies, 2006). According to the policy brief of the OEDC (2006), three major political and economic developments of the 1990's contributed to this process

The most important one was the lifting of economic sanctions against South Africa following the accession in 1994 of a democratic government. In 1948, the National Party won the national elections and immediately started implementing a stricter race-based policy named apartheid. This effectively divided the economy into a privileged white one, and an impoverished black one. The policy was widely criticised and led to crippling sanctions being placed against the country in the 1980's. The legacy of apartheid will have a major impact on the economy for generations to come (CIA, 2007). South Africa held its first multi-racial election in 1994, leaving the newly elected African National Congress (ANC) government with the daunting task of trying to restore order to an economy harmed by sanctions, while also integrating the previously disadvantaged segment of the population into it. The democratic elections and the lifting of international economic sanctions against South Africa opened the way for broad liberalizing reforms (OECD, 2006).

The next radical change was the repeal of the Marketing Act of 1937, which led to the establishment of a much freer economic and entrepreneurial environment with major reduction in government interventions in domestic production, marketing and trade (Sandrey and Vink, 2006). South Africa's agricultural marketing has undergone transformation since 1994 with the introduction of the

Marketing of Agricultural Products Act, 1996 (Act 47 of 1996). This Act has changed agricultural marketing policy and practice dramatically to ensure that it occurs in a free environment. The deregulation process was aimed at ensuring that farmers and agribusinesses position themselves as players in the globally competitive environment. The deregulation process entailed closing agricultural marketing boards, phasing out import and export-control measures, eliminating subsidies, and introducing tariffs to protect the domestic agricultural industry value chains against unfair international competition. While a fairly radical process to some old-style producers in South Africa, deregulation has ensured a leaner and stronger agricultural industry, with farmers and agribusinesses able to position themselves as players in a global competitive environment. Phasing out controls and closing marketing boards led to a short-term shortage of essential services formerly provided by the boards and cooperatives, such as storage, grading, deliveries, value adding, information dissemination and research. As a result specialized marketing support institutions, such as the South African Futures Exchange (SAFEX) and the Agricultural Futures Market of the Johannesburg Stock Exchange (JSE), were established to provide much needed price management mechanisms (Sandrey and Vink, 2006; Viljoen, 2005 and OECD, 2006).

According to Barry (2006) the deregulation process was driven by anti competition philosophies and concern about effective use of power in the single channel marketing system. The “big bang” approach to deregulation resulted in many essential industry services being lost, particularly access to relevant and accurate information. Because of deregulation, a period of major change to industry organisations occurred in the mid to late 1990’s. New South African industry organisations were created, or organisations went through major reformation processes.

The opening of the agricultural sector placed South Africa among the world’s leading exporters of agro-food products such as wine, fresh fruit and sugar. The

main development in trade policies were the replacement of direct control over imports by tariffs, which were set below the rates bound in the WTO, and the elimination of state controls over exports. The average import tariff level was lowered by one—third between 1994 and 1999. South Africa has established a number of preferential trade arrangements with countries inside and outside the South African Development Community (SADC) region. The new trade arrangements improved access to foreign markets for farmers, but also introduced greater exposure to external competition.

Wide ranging reforms liberalizing domestic and foreign trade and lowering support to agriculture were implemented in the 1990s. The commercial agricultural sector adapted well to the policy reforms and liberalisation efforts (OECD, 2006).

The ability of the commercial sector to respond to increased market opportunities will ultimately determine any gains from global trade liberalisation. Farming policies need to be conducive to quality and productivity improvements for this sector to further improve its international competitiveness and exploit its export potential.

2.1.4 Globalisation and international trade

Sheram and Soubbotina (2000) define “Globalisation” as the growing interdependence of countries resulting from the increasing integration of trade, finance, people, and ideas in one global marketplace. International trade and cross-border investment flows are the main elements of this integration.

Globalisation started after World War II but has accelerated considerably since the mid-1980s, driven by two main factors. One involves technological advances. The other factor has to do with the increasing liberalisation of trade and capital markets: more and more governments are refusing to protect their economies

from foreign competition or influence through import tariffs and no tariff barriers such as import quotas, export restraints, and legal prohibitions (Collier, Greenaway & Gunning, 1997). A number of international institutions established in the wake of World War II- including the World Bank, International Monetary Fund (IMF), and General Agreement on Tariffs and Trade (GATT), succeeded in 1995 by the World Trade Organisation (WTO)- have played an important role in promoting free trade in place of protectionism.

As the World Trade Organisation passes the 50th anniversary of the rules-based trading system that began with the GATT after World War II, it is clear that globalisation and the liberalisation of trade have become permanent fixtures in international trade policy formulation. Of all globally traded commodities, agriculture is most subject to rigged rules and double standards. In the early 1990s there was some optimism that agricultural trade would become fairer: for the first time agriculture was included in the Uruguay Round of the Global Agreement on Trade and Tariffs (GATT). Through GATT it was hoped that the disarray that characterized global trade in agriculture would be reformed to make way for a “fair and market oriented agricultural trading system...through substantial and progressive reductions in agricultural support and protection” (Mather, 2002).

For every country in the world, the import and export of agricultural products is essential to the health of the economy as well as the population (FAO, 2001). For countries that are actively engaged in globalisation, the benefits come with new risks and challenges. For participating countries the main benefits of unrestricted foreign trade stem from the increased access of their producers to larger, international markets. Domestic producers produce more efficiently due to their international specialization and the pressure that comes from foreign competition, and consumers enjoy a wider variety of domestic and imported goods at lower prices (Sheram and Soubbotina, 2000). Mather (2002) stated that for developing country producers the hope was for greater access to northern

hemisphere markets and higher and more stable world commodity prices. The impact of the Uruguay Round has been extremely disappointing. While developing countries have liberalized their agricultural markets and support systems to farmers, often as part of a structural adjustment programme, the subsidies and supports to farmers in the USA and the European Union have in fact increased since the late 1980s. Country subsidies in 2000 of the Organisation for Economic Co-operation and Development were so high that it exceeded the value of world trade in agricultural products. The impact of these subsidies on prices has been enormous for international competition and on developing country producers. It is important to note that subsidies have not only increased, they have also changed their character and their focus. In other words, in the decade of the 1990s the nature of the rigged rules and double standards has changed in significant ways. Prior to the Uruguay Round subsidies in the European Union were often indirect or in the form of market prices supports. Since then the subsidies have become direct to support measures for limiting production and improving the environment. Despite changes in the focus of the subsidies their impact on world trade remains the same.

Tariff protection has also changed since the early 1990s. Non-tariff barriers and quotas have given way to quantitative tariffs, which increase the costs of imports (Mather, 2002). Governments of developing countries often argue that recently established industries require temporary protection until they become more competitive and less vulnerable to foreign competition. Sheram and Soubotina (2000) argue further that governments often prohibit or reduce selected imports by introducing quotas, or make imports more expensive and less competitive by imposing tariffs. Such protectionist policies can be economically dangerous because they allow domestic producers to continue producing less efficiently and eventually lead to economic stagnation. Wherever possible, increasing the economic efficiency and international competitiveness of key industries should be considered as an alternative to protectionist policies.

Import tariffs are widely used as a market access barrier in order to restrict imports of citrus fruits and citrus juices and protect national production (FAO, 2004). Hagedoorn (2002) indicated that as a result of the Marrakech Agreement on agriculture in 1994, there has been a process of reduction of tariffs on imported fruits and fruit juices. Some countries have reached trade agreements with other countries or groups of countries in order to benefit from preferential treatment through the reduction of the level of tariffs or even the allowance of duty-free entry. According to The United Nations Conference on Trade and Development (UNCTAD, 2006), these trade agreements expand market opportunities.

Liberalisation of agricultural markets has been on the agenda of policy makers and international organisations since the beginning of the 1980's. Gradually, policies in the industrialized world became increasingly oriented towards less government interference, and were characterized by a simultaneous shift from national to supranational regulations. In much of the developing world, policy reforms under structural adjustment programs led to a redefinition of the government in relation to agricultural markets. As a result of these national and international developments, agricultural markets world-wide entered a long-term process of liberalisation (Collier *et al*, 1997).

There continue to be important limitations to the free global movement of fruit, despite the opportunities resulting from globalisation, and many countries have experienced difficulty adjusting to a new trade environment characterized by reduced tariff barriers. However, the emphasis placed on non-tariff barriers has increased both due to the global proliferation of non-tariff or technical measures and because of wider recognition of the impact non-tariff barriers can have on trade. There is now concern that such technical measures can act, either explicitly or implicitly, as a barrier to trade in a similar manner to tariffs and quantitative restrictions (FAO, 2001; 2004). Countries may thus turn to other measures (such as SPS) in order to protect domestic markets, secure market

share or gain other unfair trading advantages, particularly in those instances in which existing tariff barriers may have been removed. Sanitary and phytosanitary (SPS) measures are technical regulations designed to prevent a potentially adverse impact of international trade on human, animal or plant life or health. The purpose is to protect consumer and national health and safety. The Agreement on the Application of Sanitary and Phytosanitary Measures (the "SPS Agreement") entered into force with the establishment of the World Trade Organisation on 1 January 1995 (WTO, 1995).

2.1.5 South Africa as a player in international markets

Trade is a significant component of South Africa's agricultural economy and is essential to South Africa's prosperity. In the last decade (1993-2003) agricultural exports have grown strongly in importance and now represent 40% of the total value of production. Imports have also grown sharply since the mid nineties and now compare to 20% of the value of production. South Africa is on balance an agricultural exporting country (Department of Agriculture, 2007a). While the dramatic growth in trade partially reflects the decline in the Rand over recent years it is also a response to an economic policy environment that has moved rapidly from protectionist statutory intervention and support of agriculture prior to the mid nineties to deregulation and global competitiveness in the current economy.

According to the Department of Agriculture (2001), the political changes in South Africa and the policy changes in agriculture, since 1994, have contribute to a dramatic increase in the role of trade in the agricultural economy. Consumer preferences, food safety considerations, social and technical conditions and intellectual property rights have taken on a new importance in the light of globalisation.

South Africa is a signatory to the World Trade Organisation (WTO) and is an active participant in the standard setting body that is vital to its global market share, the International Plant Protection Convention (IPPC).

On the African continent, South Africa is considered as a lead country and plays a major role in agricultural development and trade issues. During 2006/2007, the department of agriculture continued participating actively in initiatives aimed at integrating the South African Development Community (SADC) region, to improve the regional economy through increased market access and economic activities for our agricultural products (Department of Agriculture, 2007a).

Despite some challenges facing the region, according to Director General of Agriculture, the SADC Trade Protocol which makes provision for South African products to be traded freely within the region, is on track for implementation in 2008 (Department of Agriculture, 2007a).

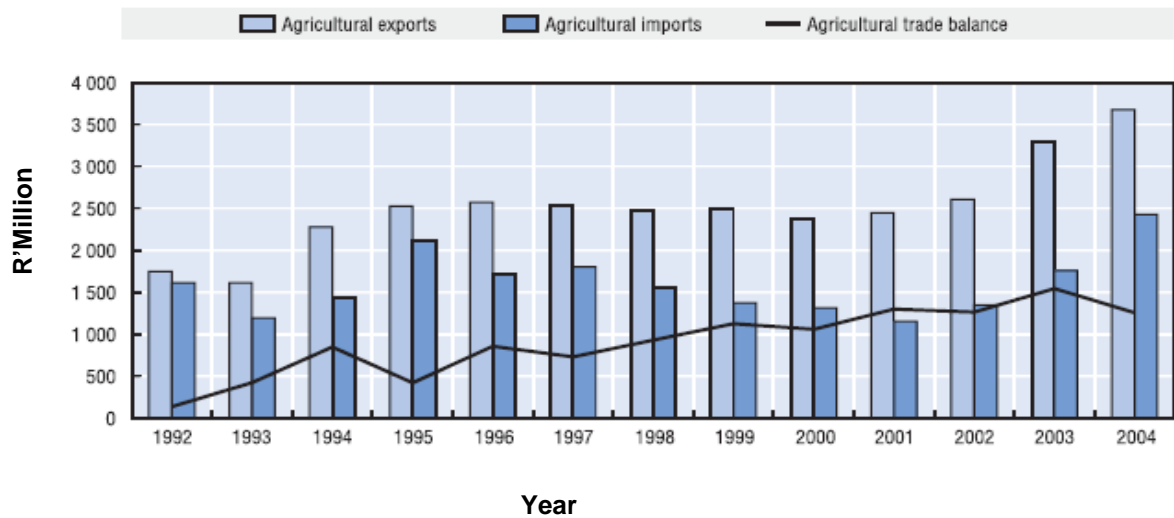
South Africa's objective with agricultural negotiations, as part of the Doha Development Agenda, is to achieve a substantial reduction in domestic support and the elimination of export subsidies, mainly from developed countries. Other objectives are to achieve a substantial improvement of market access for South African agricultural exports and to ensure that South Africa's commitments, in terms of domestic support, fully covers the development needs of the country. The WTO's Doha Development Round negotiations were suspended during July 2006. The core negotiating issues revolved around agriculture and the inability or unwillingness of key member to redress highly distorted trade measures that frustrate the development ambitions of developing countries. Since then, much work has been done, individually and in collaboration with our alliances partners in the WTO, to facilitate a resumption of negotiations. Negotiations were formally resumed in Geneva in early February 2007 (WTO, 2007).

South Africa has also established a number of preferential trade agreements with countries inside and outside the SADC region. Trade agreements improve access to foreign markets for farmers, but also exposed them more to external competition. South African agriculture maintains bilateral trade agreements with countries in Africa, and is involved in negotiations as part of the South African Customs Union (SACU) with the USA, South American Common Market (MERCOSUR), and the European Free Trade Area. South Africa is also involved in the WTO negotiations individually and as a member of the G29 of the Cairns Group and the Africa Group. South Africa is also developing trade relations with other countries. This includes the implementation of the agricultural aspects of the SACU Agreement that came into effect in July 2004; the SADC Protocol on Trade; and the South Africa-EU trade, Development and Co-operation Agreement (TDCA). The South African –EU TDCA was implemented on 1 January 2000.

The South African economy, including agriculture, is increasingly integrated in world markets with about one-third of agricultural production exported. The opening up of the agricultural sector placed South Africa among the world's leading exporters of such agro-food products as wine, fresh fruit and sugar. (OECD, 2006 and Sandrey and Vink, 2006).

The beginning of the current decade witnessed particularly strong agricultural export growth (Fig 1). South African agricultural export revenues reached almost 9% of the total value of national exports (OECD, 2006).

Fig 1 South African Agricultural exports and imports in 1992 – 2004 USD Million



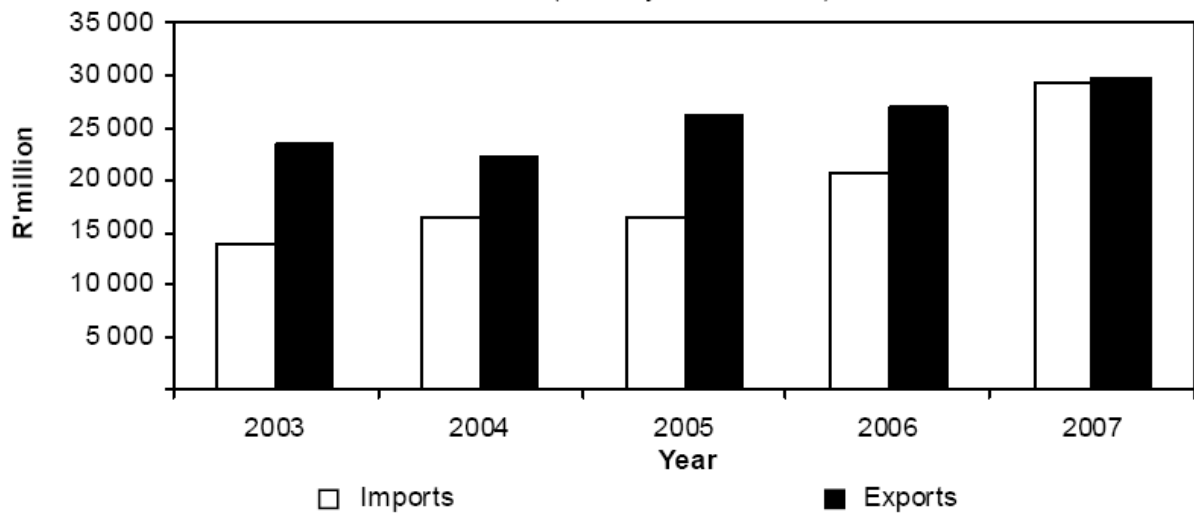
Source: OECD, 2006

Deciduous fruit is grown mainly in the Western Cape and in the Langkloof Valley in the Eastern Cape. This industry's export earnings represent 16% of the country's total earning from agricultural exports for 2004/05. During 2003, South Africa was the largest exporter in the southern hemisphere of table grapes to Europe (Burger, 2007).

Europe is by far the largest destination, absorbing almost one-half of the countries agricultural exports. The EU remains South Africa's largest single export market for agricultural products although its share of exports has dropped from 61% in 1988 to 38% in 2001 (Department of Agriculture, 2007a). Agricultural imports are also growing, but less rapidly than exports accounting for 5-6% of the total annual imports since 2000 (OECD, 2006).

In figure 2, the estimated value of imports during 2007 come to approximately R 29 155 million compared to R 20 588 million in 2006- an increase of 41.6%. The estimated value of exports show an increase of 13,7% from R 26 978 in 2006 to about R 29 729 in 2007 (Department of Agriculture, 2007b).

Fig 2: Imports and exports of agricultural products 2003-2007 (January to December)



Source: Department of Agriculture, 2007b

According to the 2007 values, citrus, wine, sugar, grapes, apples, pears and quinces were the most important export products. During 2007, the United Kingdom (UK), Netherlands, USA, Mozambique and Germany were the 5 largest export destinations for agricultural products (Department of Agriculture, 2007b).

2.2 EUROPEAN UNION AS AN IMPORTANT EXPORT MARKET FOR SOUTH AFRICA

2.2.1 What is the European Union?

The European Union (EU) is a unique, economic and political partnership between 27 democratic European countries. It is founded upon numerous treaties and has undergone expansions that have taken it from 6 member states to 27. Common institutions has been set up by the EU's member states, to which they delegate some of their sovereignty so that decisions on specific matters of joint interest can be made democratically at European level (Dinan, 2005).

Fontaine (2004) pointed out that the historical roots of the European Union lies in the Second World War. The European Union is the culmination of European integration which started with the European Coal and Steel Community (ECSC). As of 1950, the European Coal and Steel Community begin to unite European countries economically and politically in order to secure lasting peace. The ECSC Treaty was aimed at speeding up the reconstruction of Europe after World War II and at preventing a recurrence of war amongst its signatories.

The six founders were Belgium, France, Germany, Italy, Luxembourg and the Netherlands. In 1957, the Treaty of Rome creates the European Economic Community (EEC), or 'Common Market'. Denmark, Ireland and the United Kingdom join the European Union on 1 January 1973, raising the number of member states to nine. In 1981, Greece becomes the 10th member of the EU and Spain and Portugal follow five years later. In 1987 the Single European Act is signed. This is a treaty which provides the basis for a vast six-year programme aimed at sorting out the problems with the free-flow of trade across EU borders and thus creates the 'Single Market'. There is major political upheaval when, on 9 November 1989, the Berlin Wall is pulled down and the border between East and West Germany is opened for the first time in 28 years, this leads to the reunification of Germany when both East and West Germany are united in October 1990. In December 1992 a single European market was achieved. The Maastricht Treaty of 1992 created the European Union, preparing for the introduction of a single currency and the gradual development of a Common Foreign and Security Policy (CFSP) (Fontaine, 2004 and Dinan, 2005).

Barnard (2007) pointed out that in 1993 the Single Market were completed with the 'four freedoms' of: movement of goods, services, people and money. In 1995 the EU gains three more new members, Austria, Finland and Sweden (Fontaine, 2004 and Dinan, 2005). On 1 May 1999 the single currency (Euro) came into being. The EU provides a unique institutional framework for forging unity and cooperation amongst the nations of Europe. With the accession of new 10

members on 1 May 2004 the number of EU Member States has increased from 10 to 25. The new 10 members are Hungary, The Czech Republic, Estonia, Latvia, Lithuania, Poland, Slovenia, Slovakia, Malta, and Cyprus (Dinan, 2005). According to the Europa web portal, the fifth enlargement completed with the accession of Romania and Bulgaria on 1 January 2007.

2.2.2 The geography of the European Union

The EU primarily occupies a large portion of Western and Central Europe, covering 4,422,773 square kilometres. It extends northeast to Finland, northwest to Ireland, southeast to Cyprus and southwest to Iberia, it represents the seventh largest territory in the world by area (CIA, 2007).

The union's geography is composed of its 27 member states (Appendix A). Although most of the EU is on the European continent, the EU is not coterminous with Europe: significant parts of the continent (e.g. Switzerland, Norway, and European Russia) are outside of the EU. The member states of the EU have land borders with 21 other nations. Several overseas territories and dependencies of various member states are also formally part of the EU (e.g. the Azores, Madeira, French Guiana, Martinique, Guadeloupe or the Canary Islands) while in other cases territories associated with member states are not part of the EU (e.g. Greenland, the Faroe Islands, most territories associated to the United Kingdom, Aruba, the Netherlands Antilles or New Caledonia) (Dinan, 2004, 2005 and Hartley, 2004).

2.2.3 Brief overview of the economy

CIA (2007) indicates that the economy of the EU combines the economies of the 27 member states and is generating an estimated nominal GDP of US\$ 17, 6 trillion in 2008. It accounts for about 31% of the world's total economic output. Fifteen member states adopted a single currency, the Euro, managed by the

European Central Bank. The EU economy consists off a single market and is represented as a unified entity in the WTO. The agricultural sector is supported by subsidies from the EU in the form of the Common Agricultural policy (CAP). It guarantees a minimum price for farmers in the EU. This is criticized as a form of protectionism, inhibiting trade, and damaging developing countries (Graumans, 1997).

2.2.4 Institutional structure of the European Union

There are currently 5 institutions of the EU which govern the Union. They are outlined in the treaties of the European Union in the following order:

- the European Parliament (representing the people of Europe);
- the Council of the European Union (representing national governments);
- the European Commission (representing the common EU interest).
- The Court of Justice of the European Communities
- European Court of Auditors

The **European Parliament** shares the legislative and budgetary authority of the Union with the Council. It does however have powers over the Commission which the Council does not. The **Council of the European Union** is a body holding legislative and executive powers and is thus the main decision making body of the Union. The **European Commission** is the executive arm of the Union. It is designed to be independent of national interest. The body is responsible for drafting all law of the EU and has monopoly over legislative initiative within the European Community pillar. It also deals with the day-to-day running of the Union and has a duty to uphold the law and treaties. The **Court of Justice** of the European Communities is the highest court of the Union on matters of Union law and is composed of 27 judges *(one per member state). Its role is to ensure that the Union law is allied in the same e way across all states and to settle legal disputes between institutions or states. It has become a

powerful institution as Union law overrides national law. European **Court of Auditors** has no judicial powers like the Court of Justice. Instead, it ensures that taxpayer's funds from the budget of the EU have been correctly spent (Fontaine, 2004).

Most EU institutions were created with the establishment of the European Coal and Steel Community in the 1950's. Much change since then has been in the context the shifting of the power balance away from the Council towards the Parliament. The EU's system of governance is largely unique. The institutions are not concentrated in a single capital city; they are instead based across 3 cities, Brussels, Luxembourg and Strasbourg. The current arrangement was agreed in 1992 and attached to the Treaty of Amsterdam. The treaty states that the Commission and Council would be based in Brussels, the Courts in Luxembourg and the Parliament is Strasbourg. However some departments of the Commission and meetings of the Council take place in Luxembourg while the Parliament has its committees and some sessions in Brussels and its secretariat in Luxembourg (Hartley, 2004 and Dinan, 2005).

According to Steiner, Woods and Twigg–Flesner (2006) the law of the European Union is the unique legal system which operates alongside the laws of the member states of the EU. EU law has direct effect within the legal system of its member's states, and overrides national law in many areas, especially in terms of economic and social policy. The EU is not a federal government, nor is it an intergovernmental organisation. EU law has what is known as a 3 pillar structures. The first, oldest and most important "pillar" deals with law concerning economic and social rights and how European institutions are set up. This is found in the treaty of the European Communities, signed in Rome in 1957 and subsequently amended by other Treaties concluded between the member states. The second and third pillar was established under the Treaty of the European Union, signed in Maastricht in 1992. The second pillar concerns the EU Common Foreign and Security Policy. The third pillar concerns Police and Judicial Co-

operation in Criminal Matters. Technically speaking “EC law” denotes anything to do with the first pillar and “EU law” denotes the law regarding all three pillars.

There are a number of types of legislation which can be passed. The strongest is a regulation, an act or law which is directly applicable in its entity. Then there are directives which bind members to certain goals which they must achieve. They do this through their own laws and hence have room to manoeuvre in deciding upon them. A decision is an instrument which is focused at a particular person/group and is directly applicable. Institutions may also issue recommendations and opinions which are merely non-binding declarations (Craig and de Burca, 2007).

2.2.5 South African agricultural trade relations with the European Union

Graumans (1997) stressed that since the first democratic elections South Africa has been involved in redefining its relations in the international arena. The isolation of apartheid South Africa left the democratic government with empty hands regarding international agreements, both in trade and cooperation spheres. The negotiations with the EU are one of the exercises the new government and its transforming departments saw themselves faced with. The EU is an important trade partner and has strong ties with South Africa's neighbours in the SADC region.

According to the Department of Agriculture (2007a), Europe remains South Africa's largest trading region and source of investment. In 2005, Europe accounted for 38,9% (R 116, 94 billion) of South Africa's total exports, and 40,3% (R140, 448 billion) of its total imports. During the same year, the EU accounted for the bulk of this trade, with exports to the EU reaching R 106,465 billion in 2005 (up from R93,426 billion in 2004), and imports reaching R128,360 billion in 2005 (up from R121,064 in 2002). Since 2001, South Africa's imports from Germany have been South Africa's largest source of imports. In 2005, South

Africa's imports from Germany totalled R49, 197 billion. The United Kingdom remains South Africa's largest export destination in Europe with exports amounting to R32, 377 billion in 2005. Trade relations with Europe, particular with the European Union, are pivotal to South Africa's economic development. The Trade, Development and Co-operation Agreement (TDCA) with the EU form a substantial element of South Africa's reconstruction and development (Burger, 2007).

The TDCA, which came under provisional implementation on 1 January 2000 and fully into force on 1 May 2004, provides for the establishment of a free trade agreement (FTA) between South Africa and the EU. The TDCA commits South Africa to grant duty-free access to 86% of the EU's imports over a period of 12 years, while the EU will liberalize 95% of South Africa's imports over a 10 year period (Assarson, 2005). This agreement is expected to contribute towards the restructuring of the South African economy and its long-term economic growth.

According to the Department of Agriculture (2006a), the TDCA review clauses provide for the two parties to assess whether they would like to improve the TDCA in areas in which they already have commitments, and whether to extend it to areas that the TDCA covers partially or not at all. South Africa seeks to use the TDCA review processes to correct the anomalies in South Africa's and the SADC's trade policy towards the EU, and to ensure that the ongoing economic partnership agreement between the SADC and the EU are aligned with a revised TDCA. South Africa also negotiated that the EU's Generalized System of Preference (GSP) be transposed to the TDCA, because products with GSP-status enjoy preference over those under the TDCA.

In August 2005, SACU concluded an FTA with European Free Trade Areas states (EFRA), including Liechtenstein Switzerland, Norway and Iceland. The SACU's offer to the EFTA was the same as that of the EU in terms of the South African EU TDCA on both agriculture and industrial products with some marginal

adjustments (taking into account BLNS countries' sensitivities). EFTA has provided limited access to basic agricultural products (Department of Agriculture, 2006a).

2.2.6 The legislative requirements of the EU

The body of EU legislation that implements the provisions of the SPS Agreements constitutes a complex and overlapping series of Regulations and Directives that have been introduced over the period since the establishment of the EU. The European Commission embodies and upholds the general interest of the Union and is the driving force in the Union's institutional system. Its four main roles are to propose legislation to Parliament and the Council, to administer and implement Community policies, to enforce Community law (jointly with the Court of Justice) and to negotiate international agreements, mainly those related to trade and cooperation (Fontaine, 2004).

According to the official website of Europe, The Directorate-General for Health and Consumer Protection is a Directorate-General of the European Commission. The Health and Consumer Protection DG is responsible for the implementation of EU laws on the safety of food and other products, on consumer's rights and on the protection of people's health. The Directorate-General for Health and Consumer Protection is organised into six directorates:

Directorate A: General Affairs

Directorate B: Social Affairs

Directorate C: Public Health and Risk Assessment

Directorate D: Animal Health and Welfare

Directorate E: Safety of the Food Chain

Directorate F: Food and Veterinary Office

The EU's plant Health legislation is covered by Directorate E- Food Safety: plant Health, animal health and welfare, international questions: E1 – Plant health of the Health and Consumer Protection Directorate-General. The main objective of the EU plant health legislation is to protect the safety of food derived from plants and to secure the health and quality status of crops in all member states. It also regulates the trade of plants and plant products within the EU as well as imports from the rest of the world in accordance with international plant health standards and obligations. It implements preventative measures to guard against the introduction and spread of organisms harmful to plants or plant products within the EU. It also ensures quality conditions for the sale of seeds and propagation material within the EU. EU legislation also covers the intellectual property rights granted to plant varieties, as well as the conservation and use of genetic resources.

The importation of agricultural products into the EU are governed by Council Directive 2000/29/EC of 8 May 2000 on protective measures against the introduction into the Community of organisms harmful to plants or plant product and against their spread within the Community. This Directive concerns protective measures against the introduction into the Member States from other Member States or third countries of organisms which are harmful to plants or plant products.

This Directive replaces and consolidates Directive 77/93/EEC of 21 December 1976 and subsequent amendments. It is based on the principles accepted internationally in the International Plant Protection Convention (IPPC) of the Food and Agriculture Organisation (FAO) and the WTO SPS (sanitary and phytosanitary measures) agreement.

In 2004 a consolidated text of the Council Directive was produced by the CONSLEG system of the Office for Official Publications of the European Communities (CONSLEG: 2000L0029 — 01/05/2004). This document is meant

purely as a documentation tool and the institutions do not assume any liability for its contents.

2.3 SOUTH AFRICAN PHYTOSANITARY EXPORT REGULATORY SYSTEM

2.3.1 Importance of the SPS mechanisms in international trade

2.3.1.1 What are Sanitary and Phytosanitary Measures?

According to the SPS Agreement (WTO, 1994), sanitary and phytosanitary measures are mandatory technical requirements adopted by nations to protect the health and lives of humans, animals, and plants from risks associated with disease, pests, and contamination of foodstuffs, and to prevent damage caused by the establishment or spread of pests. The application of sanitary and phytosanitary measures to facilitate international trade, is regulated by the WTO Agreement on the Application of Sanitary and Phytosanitary Measures. Sanitary measures relate to human or animal health, whereas phytosanitary measures relate to plant health. SPS measures may take many forms, including laws, decrees, regulations, requirements and procedures, and they may involve the application of specific standards

The SPS Agreement was negotiated during the Uruguay Round to address the concern that gains made during the round in negotiating freer trade in agricultural commodities could be eroded if countries substituted arbitrary or unjustified technical barriers to keep out imports (WTO, 1995). The agreement confirms that WTO members have the right to apply SPS measures to protect human, animal, or plant life or health. But such measures can be applied only to the extent necessary and must be based on sound scientific principles and (unless provisional) must not be maintained without sufficient scientific evidence. Furthermore, measures must not arbitrarily or unjustifiably discriminate among members. The agreement states further that all measures that conform to

international standards, guidelines, or recommendations, as promulgated by the relevant international standard-setting bodies (Codex Alimentarius Commission, International Office of Epizootics and International Plant Protection Convention), are consistent with the relevant provisions of the agreement. But if a member's measure results in a level of protection higher than would be achieved by a relevant international norm, or if no such norm exists, the measure must be based on a risk assessment appropriate to the circumstances, reflect a consistent approach to risk management, and be the least trade-restrictive means of achieving the importing member's level of protection. The requirements of the Agreement are generally seen as high and even developed countries face a substantial task when they have to provide a risk assessment robust enough to be judged in conformity with the Agreement's provisions.

Agricultural producers and exporters and regulatory authorities share responsibility for ensuring conformity with SPS requirements. Businesses are typically responsible for ensuring that requirements are met, and governments monitor compliance, applying restrictions where necessary. For agricultural products in international trade, the relevant authorities of an exporting country might have to provide official certification that the requirements of an importing country have been met. These activities require suitable legal frameworks and enforcement mechanisms, and technical support in the form of surveillance and monitoring systems, testing laboratories, official inspection services, pest and disease databases, and so forth.

As the expansion of world trade has created more integrated agricultural and food markets an agreement on international measures for ensuring the quality and safety of traded agricultural products are therefore essential. SPS measures are meant to ensure safety, and domestic regulatory structures governing the application and regulation of such measures are necessary to ensure that only safe agricultural products and foodstuffs are distributed to the general population (WTO, 1995).

2.3.1.2 *How do Sanitary and Phytosanitary Measures affect trade and development?*

Food and agricultural standards are emerging as a particularly important aspect of the institutional framework of global markets in an era marked by the twin forces of globalisation and agro-industrialisation. The role of standards, as well as how they are set and implemented, is shifting as the global agric-food system adapts to these forces. Specifically, the market context is changing due to the shift from homogeneous markets to differentiated markets, a reorientation from national markets to global markets, moving from spot markets toward vertical coordination and integration, and the restructuring of economies and policies from planned to market driven (World Bank, 2001).

Jaffee (1993) indicated that the fastest growing global agricultural markets for developing countries are for fruits and vegetables, livestock products and other high-value commodities. For these high-value products, regulations and standards related to safety and quality play a large role in determining trade opportunities. The WTO agreements to discipline agricultural food safety and quality regulatory decisions are primarily sovereign prerogatives. These WTO disciplines call broadly for countries to achieve legitimate regulatory goals in the least trade-distorting manner. Effectiveness of these disciplines is an important aspect of a rules-based agricultural trade system.

Sanitary and phytosanitary measures, trade and development are increasingly interconnected (World Bank, 2001). Developing countries are huge exporters of agricultural and food products, taking advantage of their abundant low-cost labour and arable land. Recent liberalisation of global trade including reduction in agricultural tariffs and elimination of quotas has expanded export opportunities for many of these countries. But their inability to conform to SPS measures required by trading partners has hampered their ability to take advantage of

these opportunities. At the same time, SPS policies will likely become more complex and enforcement more stringent as trade becomes more liberalised (Henson, Loader, Swinbank, Bredhal and Lux, 2000).

Several studies have provided evidence that technical regulations constitute a considerable obstacle to the growth of agricultural food and produce exports of developing countries, including those in Africa (Townsend, 1999; Jabati, 2003; Zarrilli, 2002; Henson *et al.*, 2000; Jha, 2002). Agricultural exports from South Africa, and indeed other African countries, also face these heavy non-tariff restrictions (including technical trade barriers, sanitary and phytosanitary standards, safeguards and anti-dumping instruments), which constrain the developing countries capacity to exploit trade opportunities. Among all the non-tariff barriers (NTBs), sanitary and phytosanitary (SPS) standards and technical regulations are perhaps the biggest constraint impacting on agricultural exports. African countries continue to see SPS measures as a protection device preventing the export of their agricultural products.

2.3.2 SPS Regulations and enforcement in South Africa.

2.3.2.1 Meeting SPS requirements in the global market place

The South African economy, including agriculture, is increasingly integrated in world markets. According to the OECD's review on the agricultural policy reform in South Africa (2006), three major political and economic developments of the 1990s contributed to this process. The most important was the lifting of economic sanctions against South Africa following the accession in 1994 of a democratic government. The next radical change was the repeal of the Marketing Act of 1937, (Vink and Kirsten, 2000) which led to establishment of a much freer economic and entrepreneurial environment with major reduction in government interventions in domestic production, marketing and trade. The opening of the agricultural sector placed South Africa among the world's leading exporters of

agro-food products such as wine, fresh fruit and sugar. The beginning of the current decade witnessed particularly strong agricultural growth. South Africa's agricultural export revenues reached almost 9% of the total value of national export. Europe is by far the largest Agricultural trade balance importer, absorbing almost one-half of the country's agricultural exports (Department of Agriculture, 2006b).

As a result of agreements negotiated at the World Trade Organisation (WTO), traditional trade protection measures such as tariffs and quotas are falling away. But to some extent they are being replaced by domestic technical regulations that permit countries to bar products from entering their markets if the products do not meet certain standards. To become and remain competitive, producers and suppliers must meet the Sanitary and Phytosanitary (SPS) requirements set by importers' governments in importing countries. Some SPS measures are very simple and specific, but others are combined in extremely complex systems like the requirements (set out in hundreds of pages of legislation and guidance documents) governing the import of plants and plant products for entry in to the European Union (EU). At the same time, SPS policies will likely become more complex and enforcement more stringent as trade becomes more liberalised (Jaffee, 2005).

The expansion of world trade has placed a huge responsibility on the National Plant Protection Organisation of South Africa (NPPO) to facilitate safe agricultural trade with its international trading partners. Lack of knowledge and the inability to meet international market requirements are, however, the most fundamental impediments to accessing foreign markets. The accuracy of the phytosanitary certificate it issues is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This has immediate and potentially serious repercussions for all stakeholders and severely

affects industries that depend wholly on specific markets. It is for these reasons that countries must strengthen their export certification services.

2.3.2.2 South Africa's Phytosanitary Export Regulatory System

Department of Agriculture

South Africa is a signatory member of the WTO and the IPPC. Within South Africa, the overall administration on matters related to the SPS Agreement comes under the mandate of the Department of Agriculture (DOA). The DOA plays a key role in the development of South African agriculture and the profitability and international competitiveness of the sector. The strategic role of the Department of Agriculture is to facilitate the transformation objectives for agricultural development, food security and growth of the sector and the sustainable use of natural resources. To achieve this, the department provides support for the growth and transformation of the agricultural sector, poverty eradication and rural development, and for establishing farmer support programmes. These include access to technology, markets, finance, information and training. The department also seeks to mitigate risks by formulating strategies for disaster management, quality assurance, food safety, and plant and animal health. The activities of the Department of Agriculture are organised into 5 programmes.

The programme: Biosecurity and Disaster Management's main objective is to reduce the incidence of animal and plant diseases and ensure compliance with international and national agricultural risk and disaster management measures through development, implementation and monitoring of policies that ensure proper maintenance of and improvement in management systems for animal and plant disease control. The Biosecurity and Disaster Management branch comprises of two Chief Directorates: Plant Health and Inspection Services (PHIS) and Food, Animal Health and Disaster Management.

Plant Health and Inspection Services

This Chief Directorate is responsible for regulations governing the import and export of plants, plant products and other regulated articles. It focuses on policies and systems to control plant diseases and on making sure that illegal agricultural products do not enter and leave South Africa. It also ensures that plant products are of good quality. Directorate Plant Health and Directorate Agricultural Product Inspection Services (APIS), which constitutes the NPPO of South Africa (Appendix B), is mandated with the responsibility of managing the SPS requirements, including the implementation of the International Standards for Phytosanitary Measures (ISPM's) establishes under the IPPC.

Directorate Plant Health

The purpose of Directorate Plant Health is to reduce plant risk associated with plants, plant products and regulated articles. Within the thrust of the departmental agricultural strategy, the directorate administers the Agricultural Pests Act, 1983 (Act No. 36 of 1983) in accordance with the principles of the World Trade Organisation (WTO) Agreement on the application of sanitary and phytosanitary measures, well as the international standards of the International Plant Protection Convention (IPPC) and other recognised bodies.

The key objectives of the directorate are to develop national policy, measures and standards regarding the reduction and management of risks relating to quarantine and other regulated pests associated with plants, plant products and other regulated articles. Plant Health staff is responsible for pest risk assessments (PRA), which evaluate pest risks associated with plant commodities entering or leaving South Africa. Pest Risk Assessments are conducted on imported commodities and in support of South African export commodities. A plant PRA identifies pests that may be introduced with a particular commodity, and estimates the likelihood that the pests will be introduced and the

consequences of their introduction. This is in compliance with international principles and standards to support a globally competitive agricultural sector, sustainable development and national food security. Furthermore, the directorate renders plant quarantine and plant diagnostic services and analytical laboratory services for agricultural products. The directorate is the contact point for the National Plant Protection Organisation of South Africa.

Directorate Agricultural Product Inspection Services

Directorate Agricultural Product Inspection Services ensures that imported and exported goods are safe. Within the thrust of the departmental agricultural strategy, the directorate administers and is involved with the principles of the WTO, agreement on the application of sanitary and phytosanitary measures, the agreement on the application of technical barriers to trade (TBT) and the convention on biodiversity, as well as the standards of the International Plant Protection Convention (IPPC), Codex Alimentarius, the International Union for the Protection of New Varieties (UPOV), the International Seed Testing Association (ISTA), and other recognised bodies.

The main objective of the directorate is the rendering of inspection and audit services at official ports of entry/exit, national plant and plant product inspection and audit services and national inspection services on plant and propagating material.

2.4 CONCLUSION

The opening of the agricultural sector placed South Africa among the world's leading exporters of agro-food products such as wine, fresh fruit and sugar (OECD, 2006). Europe is by far the largest Agricultural trade balance importer, absorbing almost one-half of the country's agricultural exports. In order to become and remain competitive, producers and suppliers must meet the Sanitary and Phytosanitary (SPS) requirements set by importers' governments in

importing countries. Some SPS measures are very simple and specific, but others are combined in extremely complex systems. Sanitary and phytosanitary policies will likely become more complex and enforcement more stringent as trade becomes more liberalized (Henson, Loader, Swinbank, Bredhal and Lux, 2000). The expansion of world trade has placed a huge responsibility on the National Plant Protection Organisation (NPPO) of South Africa to facilitate safe agricultural trade with its international trading partners. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets.

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CHAPTER 3

IDENTIFYING PHYTOSANITARY CONSTRAINTS FACED BY THE SOUTH AFRICAN EXPORT REGULATORY SYSTEM

3.1 INTRODUCTION

As a department with linkages across the agricultural sector and the broader economy, the Department of Agriculture (DOA) both influences and is influenced by developments within the external environment in which we operate. While some external changes can be anticipated and accommodated, at least to a certain extent, it is not possible to plan for every contingency, particularly when changes arise in the international arena, where the department and the South African government have limited influence. As is many developing countries, South Africa has certain capacity constraints that complicate its ability to comply with its international obligations according to the provisions of the World Trade Organisation (WTO) Agreement on the Application of Sanitary and Phytosanitary Measures (SPS) and its relevant standard-setting bodies. A need therefore exists to evaluate the existing capacity and identify areas for capacity building to ensure improvement in the design and use of the phytosanitary export system.

3.2 METHODOLOGY

The key resources relating to capacity in South Africa have been analyzed with the aim of highlighting the weaknesses. Most of these areas also form part of the control points and compliance criteria for the Food and Agricultural Organisation's tool kit (the Phytosanitary Capacity Evaluation) that measures a country's capacity to comply with SPS measures. The tool is available on CD-ROM and on the International Phytosanitary portal of the International Plant Protection Organisation (<https://www.ippc.int/IPP/En/default.jsp>).

As no phytosanitary capacity evaluation for South Africa has been done to date (April 2008), the FAO tools were used as a guideline and data were collected from previous chapters and based on personal experience as an inspector for 10 years the information was interpreted in terms of its compliance ability to the provisions of the World Trade Organisation (WTO) Agreement on the Application of Sanitary and Phytosanitary Measures (SPS) and its relevant standard-setting bodies. The outcome of this analysis was approved by Directorate Plant Health and presented at the International Congress of Entomology, Durban, South Africa in July 2008 (Bezuidenhout, 2008).

The evaluation study focused on the phytosanitary institution in South Africa responsible for the phytosanitary export regulatory system of plants, plant products and other regulated articles. The thematic areas studied were:

- Regulatory Framework
- Institutions and coordinating mechanisms
- Human Resource
- Physical infrastructure
- Pest and disease diagnostic capabilities
- Pest Risk Analysis
- Surveillance and exotic pest/disease response
- Inspection systems
- Export Certification Systems
- Documentation
- Notification and inquiry point
- Financial resources

3.3 RESULTS

3.3.1 Regulatory framework

At the international level, major changes have taken place in international standards for plant health set by the WTO's sister organisation, the IPPC. The previous institutional structure charged with responsibility for SPS did not adequately address the new functional demands of the international standard setting institution. In order to align the departmental organisational structure with the strategic objectives, strategies and programmes, the structure was reviewed at the end of 2005. The review resulted in the restructuring of the macro-organisational structure, in order to enhance organisational performance. Subsequently, a new improved structure was implemented on 1 April 2006. The main objectives of the restructuring process were to accelerate and improve service delivery and to increase flexibility to adapt to changing environmental influences.

The establishment of the Agricultural Product Inspection Service and Plant Health as two separate directorates under the Chief Directorate Plant Health and Inspection Services, which constitute the National Plant Protection Organisation (NPPO) of South Africa, is an effort to remove the previously overlapping responsibilities of policy and standard setting and operational activities under the old SPS regime. Despite the current trend for adopting structures compatible with functional demands of international standards setting agencies, the restructuring process and its related activities, placed a heavy strain on the daily business of the institutions charged with responsibility for phytosanitary exports of agricultural products. Directorate Plant Health experienced great change in management, and some functions and key officials were relocated to other line function positions, and others had to join new divisions within Plant Health. Agricultural Product inspection Services were burdened with the expansion of their operational activities into plant health, animal health and food safety and quality

assurance. This readjustment period slowed down implementation and also negatively impacted on the planning activities of the NPPO of South Africa.

3.3.2 Institutions and coordinating mechanisms

Very poor coordination exists between the two entities involved in phytosanitary export related issues. This stems from the process of evolution where the mandate of these two directorates was overlapping under one directorate and pre-dated the establishment of Standards Organisations. The export regulatory system of South Africa have neither a mechanism for ensuring coordination between the two directorates involved in phytosanitary certification nor a common method for sharing information among themselves or with the public.

The lack of coordination among these national authorities can be cited as an obstacle to South Africa's compliance with phytosanitary measures for export of agricultural products. The accuracy of the phytosanitary certificate it issues is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. In most instances, lack of coordination may be the result of insufficient or absent standards and standard operational procedures (SOP) which greatly impact on its ability to implement its obligations under the WTO Agreement on the Application of SPS Measures and the IPPC. Standard operational procedures could review such overlaps and harmonise functions accordingly to minimise duplication of efforts.

Communication between the NPPO and the private sector is also deficient and in many circumstances also nonexistent. Such communication directly affects exporter's ability to meet phytosanitary requirements and also have a great impact on South Africa's ability to expand its export markets, as government SPS institutions are frequently expected to play an intermediary or complementary role in international trade.

3.3.3 Human resources

The restructuring process of the DOA, the high vacancy rate and severe skills development backlog in the agricultural sector has contributed to the ongoing shortage of sufficient human resources for developing and implementing phytosanitary measures. The overall shortage of manpower has affected geographic distribution and effectiveness of field operations at national levels and has a negative impact on the operation of the entire export regulatory system. One constraint that continues to hamper service delivery is the ongoing shortage of skilled personnel, particularly at management level and in specialised fields. These shortages not only detract from the department's ability to deliver services to the agricultural sector but also affect South Africa's export performance. These factors affect the capacity of institutions to implement phytosanitary export regulations. The ongoing shortage of high-level skills within the NPPO of South Africa is a cause of major concern. Current staffing levels are insufficient to render the required core services, especially considering the expansion of the department's activities domestically, regionally and internationally.

The levels of expertise, knowledge and experience of the staff directly involved in the operation of the phytosanitary export system influence the development and implementation of policies, laws, regulations and review and decision making procedures. With this low skill and knowledge levels, the lack of familiarity and understanding undermines confidence, and leads to highly protective, poorly defined inconsistent, comparatively rigid and /or narrow interpretation/ judgments of the scientific requirements/ demands of such a system. Without knowledgeable experts to operate the export regulatory system, the NPPO are experiencing difficulty in assessing other countries' scientific justifications for phytosanitary requirements, understanding how a new standard might affect their export prospects, or responding to formal notifications of proposed phytosanitary measures in export markets within the time allowed for comment. It is harder still for South Africa to challenge phytosanitary measures or import restrictions in

export markets bilaterally or through WTO dispute settlement procedures. Moreover, the NPPO have limited expertise to participate in international bodies that promulgate SPS standards, guidelines, and recommendations.

3.3.4 Physical infrastructure

The NPPO lack technical resources to equip and operate an export regulatory system. Adequate laboratory equipment and materials necessary for export examination and certification are of the utmost importance to assess whether agricultural products produced in South Africa meet foreign phytosanitary requirements. Required resources include laboratories and related consumables, disease and taxonomic reference collections, monitoring equipment, inspection posts, port facilities, computer systems, and much more. The following are notable for improvement:

- Inadequate inspection equipment at exit points, particularly airport cargo sections.
- Inadequate communications between exit points and head offices to enable laboratory test results to be quickly communicated to exporters.

3.3.5 Pest and disease diagnostic capabilities

The NPPO has some capacity to undertake pest and disease diagnosis in most disciplines. The technical staffs employed by the NPPO are largely holders of basic degrees. Further advanced training is required for staff in most disciplines, especially in the use of modern rapid diagnostic methods. This is particularly true when inspecting high-risk plant material exported for propagation under very stringent phytosanitary requirements. Most of the high level of skill in the technical disciplines exists outside of the NPPO in the Agricultural Research Council (ARC), universities and the private industry, but there seems to be little coordination between the various institutions. South Africa also experiences a

lack of experienced taxonomists, which are a key element of the export regulatory system. Documented systems need to be developed, as well as a computerised management information system that would better enable technical personnel to coordinate laboratory activities.

Plant health safeguarding systems and market access initiatives are dependent on a high-quality arthropod collection and disease herbarium to serve as a reference source when identifying organisms and validating the pest status of a country. Currently, the collections are maintained by Biosystematics division of the ARC. Again the lack of coordination and inadequate communication between the NPPO and ARC impact negatively on the success of phytosanitary certification and South Africa's entrances of new export markets.

3.3.6 Pest Risk Analysis

The NPPO have some personnel that are trained in pest risk analysis (PRA) through the Tuskegee/USDA-APHIS ATRIP program (DOA, 2007a). However, since their training, the NPPO lost some of these officials. Technical support provided to the phytosanitary export regulatory system is contained within the Division Pest Risk Analysis (PRA), Directorate Plant Health. The establishment and maintenance of export markets and special export work programmes is vital to ensure that South Africa maintains and expands its global market share. Market access issues therefore remain a high priority of the NPPO. Supporting all exports, implementation of procedures continued to ensure that South Africa is able to comply with the IPPC's international standard for phytosanitary measures in international trade.

In order to facilitate South Africa's request for market access, technical and scientific information regarding pests on specific agricultural commodities (pest information packages) are provided for bilateral engagements with various countries. Pest information packages are completed in liaison with scientists of research institutes and the respective industries. Before any pest list is officially

provided to the national plant protection authority of potential importing countries, the list is evaluated by the designated “export desk” of the pest risk analysis division to ensure correctness. Capacity of skilled professionals as well as exchange of information necessary to these stakeholders in order to achieve a common understanding of the risks, and to develop credible management options, credible regulations and policies to deal with the risks is inadequate. Apart from delays, the infrastructure for dissemination of information is weak.

3.3.7 Surveillance and exotic pest/disease response

Surveillance systems in Plant Health are much weaker than those of Animal Health. Data on plant pests and diseases are not properly collated. The NPPO does not maintain any efficient database of regulated pests or specified commodity pest lists. Pest-free areas identified and maintained are few in occurrence and are mostly focused on the citrus industry. Places of production, sites of production and areas of low pest prevalence which can enhance export opportunities for South Africa, have not been identified or declared.

3.3.8 Inspection systems

Airports, seaports and land borders are experiencing a lack of adequate coverage and representation of skilled and experienced staff involve in phytosanitary certification. Land borders are porous and require greater attention to control pests and diseases. Bulky consignments are recorded, but smaller products are smuggled across without phytosanitary inspections. To minimise this practice would require public education and measures by governments to shorten the time taken for inspections at border crossings. Communication facilities and transport are a problem and result in delays in sending samples for laboratory analysis.

Inspectors are lacking the basic knowledge of adequate inspection procedures and identification of pests, do not follow correct sampling procedures and are not equipped with the necessary inspection tools. These factors have an impact on the accuracy of the phytosanitary certificate issued, which is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This has immediate and potentially serious repercussions for all stakeholders and severely affects industries that depend wholly on specific markets.

3.3.9 Export certification systems

Phytosanitary certificates for exports and phytosanitary certificates for re-export follow formats and standards of the IPPC, as stipulated in ISPM 12 (International Standard for Phytosanitary Measures: *Guidelines for Phytosanitary Certificates*). Areas that need greater attention are measures to improve pre-export inspection and certification monitoring to control fraudulence in certification and to ensure that seals to containers are not tampered with or agricultural goods interfered with. Another area of great concern is the lack of technical communication and co-ordination between plant health inspectors and Plant Health's Pest Risk Analysis "export desk" in the verification and technical justification of phytosanitary measures. This may be the rationale behind the recent increased interceptions of South Africa's agricultural products in the European Union.

3.3.10 Documentation

The principle of transparency requires that contracting parties should publish and disseminate phytosanitary prohibitions, restrictions and requirements and, on request, make available the rationale for such measures (ISPM 1). As a prerequisite, the technical justification for non-compliance to foreign import requirements and pest information packages with include the official pest lists for

initiation of market access, should be sufficiently documented. Documentation and record keeping is insufficient and sometimes lacking. Cross cutting issues amongst the different division in Plant Health are the major caused of scattered official documentation among officials which lead to an inadequate record keeping system.

3.3.11 Notification and inquiry point

The directorate Plant Health is the contact point for the National Plant Protection Organisation of South Africa. The NPP (National Plant Protection) Contact Point is administered by the division International Standards. This division is seriously under staffed and it impact negatively on the successful operation of the notification and enquiry point. The need for collaboration between all SPS institutions for collation of responses to enquiries is paramount. Furthermore, there is need for collation of data on rejections of exported products and its analysis to serve as a feedback for better control of phytosanitary certification.

3.3.12 Financial resources

All SPS institutions have budgetary inadequacies. Although institutions generate revenue from phytosanitary certificates, import permits and other services, the treasury system does not allow any of these institutions to directly use these funds. The capacity for emergency response to pest and disease situations, which may have a great impact on phytosanitary certification and new export markets, depends on the availability of easily accessible funds.

3.4 DISCUSSION

The NPPO are experience capacity constraints in its phytosanitary export regulatory system mostly due to the recent restructuring of the National Department of Agriculture and the lack of standards and standard operational

procedures which greatly impact on its ability to implement its obligations under the World Trade Organisation's (WTO) Agreement on the Application of Sanitary and Phytosanitary Measures (WTO SPS) and the International Plant Protection Convention (IPPC). In order to meet the challenges associated with the increasing volumes of agricultural products being traded internationally, extending capacity is crucial.

Inadequate legislation, absence or inadequate information on pests, insufficient human resources, inadequate pest surveillance, inspection and certification, disease free and areas and areas of low pest prevalence not yet identified and inadequate information sharing on pests, were identified as some of the links weakening the phytosanitary export regulatory system in South Africa. There is a greater need now to co-ordinate operational planning in directorates because directorates are tasked with deliverables beyond their capacity. The limited availability of qualified professionals in specific fields, characterised by a scarcity of skilled professionals, such as pathologists, entomologists and virologists, places a constraint on the NPPO's capacity to render quality regulatory supervision.

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CHAPTER 4

EVALUATION OF THE PHYTOSANITARY CERTIFICATION SYSTEM CURRENTLY USED BY THE NATIONAL PLANT PROTECTION ORGANISATION OF SOUTH AFRICA WITH REGARD TO EXPORTS TO THE EUROPEAN MARKETS

4.1 INTRODUCTION

The major challenge for South Africa relates to capacity inadequacies. There is an acute need for appropriate policy to deal with capacity constraints. The focus of this chapter will be on the phytosanitary certification system currently used by the National Plant Protection Organisation (NPPO) of South Africa with regards to the certification for the European Union (EU). The aim is to identify the major weaknesses in the system in order to examining projects and programs seeking to strengthen certification capacities which are specifically required for competitive export-oriented food and agricultural activities. The accuracy of the phytosanitary certificate it issues is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This has immediate and potentially serious repercussions for all stakeholders and severely affects industries that depend wholly on specific markets.

4.2 METHODOLOGY

Research efforts were focused on analyzing the export certification system and evaluated the certification procedures against the World Trade Organisation's (WTO) Agreement on the Application of Sanitary and Phytosanitary Measures (WTO-SPS) compliances and identifying weaknesses within it and developing

recommendations for future Research and Development Programmes. This study took place between January and August 2008.

This study consists of primary and secondary research efforts. Two sets of questionnaires were constructed: one evaluating the export certification system used at the ports of exit, the second in order to identify the major challenges experienced by the NPPO officials in phytosanitary certification to the European markets. The purpose behind using the export certification system questionnaire (Appendix C) was to provide an understanding of the sector. The questionnaire was forwarded by electronic mail to the four Assistant Directors of the Sub Directorate National Plant and Plant Product Inspection of the Directorate Agricultural Product Inspection Services.

An effort was made to incorporate into the second questionnaire questions pertaining to key issues identified during the preliminary interviews; visits to certification offices at OR Tambo International Airport, Stellenbosch Quarantine Station, Cape Town International Airport and Pretoria; EU interception records and the authors practical experience with regard to the interpretation of the European import requirements contained in the EU Directive. Research was undertaken by a combination of face to face and telephone surveys between March and May 2008, following the questions listed in Appendix D. This was necessary to elicit views on where technical assistance relating to EU certification may be most needed.

Interviews were carried out with certification officers from Directorate APIS covering various aspects of EU certification with a view of establishing the problem/opportunity areas, how and why they exist and some ideas on how they might be overcome and/or exploited. Secondary data fill in the gaps, as far as possible, on issues not covered by the questionnaire and interviews.

In total, 30 experts were interviewed. Research findings were then analyzed and interpreted and the findings are documented in this chapter

4.3 RESULTS AND DISCUSSIONS

This section of the report details the findings of the primary research undertaken with the NPPO of South Africa. This included the analysis of the phytosanitary export regulatory system of South Africa and the interviews conducted with the phytosanitary certification officials. The research findings follow the format of the questionnaire (Appendix D) developed and approved for the study.

The International Plant Protection Convention, Article V requires its contracting parties to make arrangements to issue phytosanitary certificates certifying compliance with the phytosanitary regulations of other contracting parties (FAO, 1999). Directorate Plant Health and Directorate Agricultural Product Inspection Services (APIS), which constitutes the NPPO of South Africa, is mandated with the responsibility of managing the phytosanitary requirements, including the implementation of the International Standards for Phytosanitary Measures (ISPM's) establishes under the IPPC.

The main objective of the Agricultural Product inspection Services (APIS) is the rendering of inspection and audit services at official ports of entry/exit, national plant and plant product inspection and audit services and national inspection services on plant and propagating material. Technical support provided to the Phytosanitary Export Regulatory System is contained within the Division Pest Risk Analysis (PRA), Directorate Plant Health of the Department of Agriculture forming part of the NPPO of South Africa. The pest risk analysis (PRA) division is responsible to serve as the point of contact and technical liaison regarding export certification assistance. Technical support provided to a Phytosanitary Export Regulatory System produce valid and credible phytosanitary compliance with the phytosanitary import regulations of other contracting parties. This not alone

facilitate trade and create new market opportunities, but also enables the NPPO of South Africa to identify, notify and provide technical assistance to non-compliance which will result in the reduction or elimination of the use of unjustifiable phytosanitary measures as barriers to trade.

Within the phytosanitary export regulatory system, the Sub Directorate: National Plant and Plant Product Inspection Services (NPPIS) of Directorate: APIS are responsible for phytosanitary certification. NPPIS are divided into 4 inspection divisions, representing the following regions: Gauteng, Eastern Cape, Western Cape and Kwazulu Natal. Each region is governed by an Assistant Director. Certification officials are placed at different stations in each region. Exported consignments certified under this system should meet the current phytosanitary requirements of the importing country. Table 1 summarize the structure of this certification unit.

Currently (May 2008), 44 APIS officials are responsible for the issuing of phytosanitary certificates certifying compliance with the phytosanitary regulations of other contracting parties. Of the 44 inspectors, 30 were interviewed during 2008. This represented 68% of the NPPO officials responsible for phytosanitary certification.

Table 1: South African phytosanitary export regulatory system responsible for certification

1. GAUTENG INSPECTION SERVICES	
Office	Inspectors accredited for phytosanitary certification
Johannesburg	5
Pretoria	4
2. EASTERN CAPE INSPECTION SERVICES	
Office	Inspectors accredited for phytosanitary certification
Port Elizabeth	4
Bloemfontein	3
East London	2
Upington	1
3. WESTERN CAPE INSPECTION SERVICES	
Office	Inspectors accredited for phytosanitary certification
Cape Town	4
Stellenbosch	11
Oudtshoorn	1
4. KWAZULU NATAL INSPECTION SERVICES	
Office	Inspectors accredited for phytosanitary certification
Durban	7
Nelspruit	2

Q1 What are your academic qualification?

The minimum academic requirement for employment is an appropriate three year National diploma or BSc degree in Agriculture. Of the 30 inspectors interviewed, almost 90% were in possession of a National diploma in agriculture. Senior officials with a service record of 10 years mostly indicated a BSc degree.

Q2 Are you accredited to issue phytosanitary certificates?

Directorate APIS provides for appropriate export related training of all appointed inspectors. This training is contained in an export module which is presented during a one week course. Examination are required and only a mark of 75% and higher will lead to accreditation. A database on accredited certification officials are maintained by the Directorates' information officer. In cases of non compliances of phytosanitary certification, the responsible certification official will be suspended from issuing phytosanitary certificates and will only be reinstated once the course has been repeated and the minimum requirements satisfied. Only accredited inspectors are involved in phytosanitary certification.

Q3 At which office are you stationed?

Officials responsible for phytosanitary certification were identified by the respective managers of each region. Of the 44 experts, 30 were interviewed which represented 68% of the NPPO officials responsible for phytosanitary certification. Table 2 provides a breakdown of the respective experts interviewed in each region.

Table 2: Overview of respective experts interviewed

OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION	INSPECTORS INTERVIEWED ON EUROPEAN CERTIFICATION
Gauteng Inspection Services:		
Johannesburg	5	3
Pretoria	4	3
OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION	INSPECTORS INTERVIEWED ON EUROPEAN CERTIFICATION
Eastern Cape Inspection Services:		
Port Elizabeth	4	3
Bloemfontein	3	3
East London	2	1
Upington	1	1
OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION	INSPECTORS INTERVIEWED ON EUROPEAN CERTIFICATION
Western Cape Inspection Services:		
Cape Town	4	2
Stellenbosch	11	8
Oudtshoorn	1	1
OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION	INSPECTORS INTERVIEWED ON EUROPEAN CERTIFICATION
Kwazulu Natal Inspection Services:		
Durban	7	4
Nelspruit	2	1

Q4 How well do you think you understand the concept of phytosanitary certification?

According to the International Standard for Phytosanitary Measures (ISPM 5, 2002), *Glossary of Phytosanitary Terms*, phytosanitary certification is the use of phytosanitary procedures leading to the issue of a Phytosanitary Certificate. Phytosanitary procedures are defined as any officially prescribed method for implementing phytosanitary regulations including the performance of inspections, tests, surveillance or treatments in connection with regulated pests.

Most of the inspectors claimed to have a reasonable understanding on phytosanitary certification. Further analysis indicated that several inspectors believe that issuing a phytosanitary certificate is the only element of the phytosanitary certification process.

Q5 What is the Council Directive 2000/29/EC of 8 May 2000 and for what is it used?

The response to this question can be summarized in short as the import conditions of the “EU”, but with no or minimum knowledge of what the abbreviation portrays.

Q6 Explain procedures to follow when client intent to export to Europe?

Table 3 indicates the basic phytosanitary structure of the South African phytosanitary export system involved in certification to the European markets. The East London office is the only office claiming to have a database on specific additional declarations used in issuing phytosanitary certificates. The legislation on the import requirements of the EU is evenly distributed between the offices and certification officials, except for the Upington office where no copy of the EU Directive is indicated. The Bloemfontein office is the only office that indicated that they are unsure of the version of the EU Directive in their office. The most upsetting issue is that certification officials are issuing phytosanitary certificates

without stating the compliance to the import conditions of the importing country on the certificate in the space provide for additional declarations (open phytosanitary certificate). Officials in Uppington are issuing phytosanitary certificates even without a copy of the EU's import requirements.

Phytosanitary certificates for fresh produce are mostly issued based on the Perishable Product Export Control Board's (PPECB) quality inspection form and exporter are provided with an "open" phytosanitary certificate. Citrus fruit are exported with an additional declaration on the phytosanitary certificate. This practice started after fruit were intercepted in Europe mainly because of Citrus black spot. Exports for propagation material are done based on visual inspections and "open" phytosanitary certificates.

Table 3: Phytosanitary structure for European certification

OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION	DO YOU HAVE A DATABASE WITH SPECIFIC AD'S FOR EU CERTIFICATION	HOW MANY COPIES OF EU DIRECTIVES AT EACH OFFICE	DO YOU ISSUE "OPEN" PHYTOSANITARY CERTIFICATE FOR THE EU OR DO YOU PROVIDE AD'S ON THE CERTIFICATES
Gauteng Inspection Services:				
Johannesburg	5	No	7	Both
Pretoria	4	No	3	Both
Eastern Cape Inspection Services:				
Port Elizabeth	4	No	4	Both
Bloemfontein	3	No	3, but unsure of version	Both
East London	2	Yes	1	Both
Upington	1	No	0	Open
Western Cape Inspection Services:				
Cape Town	4	No	4	Both
Stellenbosch	11	No	9	Both
Oudtshoorn	1	No	1	Both
Kwazulu Natal Inspection Services:				
Durban	7	No	7	Both
Nelspruit	2	No	2	Both

Inspectors claimed that EU Directive is complicated and time consuming. Some offices are in constant communication with Directorate Plant Health regarding technical support with EU certification.

Q7 How many member states are part of the European Union?

The only correct response to this question came from 2 certification officials at the Stellenbosch office. Some officers indicated that they have a list of the member states but indicate that they don't know when it was last amended.

Q8 Name one regulated article that are prohibited to be exported to the European Union from South Africa?

The response to this question was very alarming. Soil was indicated as being prohibited, but it could not be indicated under which circumstances soil is allowed to be exported from South Africa.

Q9 What are the major constraints faced in European phytosanitary certification?

European phytosanitary legislation was described as drawn out and confusing. Most officials indicated that they don't even know where to start the certification process.

Q10 *Do you have any comments you would like to make in relation to phytosanitary certification to the European Union?*

Almost 100% of all inspectors interviewed indicated that they would appreciate a central database to ensure standardized phytosanitary certification to the European Union.

The constraints faced by the inspectors in the certification to the European markets formed the focus of this qualitative research. These issues, identified and confirmed via consultation during this study, are not uncommon in other sectors of the phytosanitary export regulatory system, especially those with similar structural character.

This study has quite clearly demonstrated that a lack of fundamental scientific knowledge and the inability to interpret the phytosanitary import requirements of the European market are the elementary barriers to phytosanitary compliance. This place a constraint on the NPPO's capacity to render quality regulatory supervision. Another area of great concern is the lack of technical communication and co-ordination between plant health inspectors and Plant Health's Pest Risk Analysis "export desk" in the verification and technical justification of phytosanitary measures. This may be the rationale behind the recent increased interceptions of South Africa's agricultural products in the European Union.

There is a greater need now to co-ordinate operational planning in directorates because directorates are tasked with deliverables beyond their capacity.

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CHAPTER 5

DEVELOPING A PHYTOSANITARY REPORT CERTIFICATION SYSTEM FOR SOUTH AFRICAN COMPLIANCE WITH THE EUROPEAN MARKET

5.1 INTRODUCTION

The accuracy of phytosanitary certification is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This study resulted in the development of a phytosanitary report certification system to provide phytosanitary certification and technical assistance regarding export applications for South African Agricultural produce to the European Union (EU).

5.2 METHODOLOGY

The results generated from the research finding contained in Chapter three and four from were analysis and the capacity constraints faced by the South African National Plant Protection Organisation (NPPO) officials were identified and prioritized. These constraints were then use as the criteria in order to develop a standard operating procedure (SOP) that are able to assist the NPPO officials in the export certification process for the European market.

The phytosanitary report certification system was tested between 18-19 July 2008 during an intensive workshop with various certification experts of the Directorate APIS, including officials from Auditing services. The assessment results were integrated into the SOP. This standard operating procedure (SOP) is currently in used by the training division of the Directorate APIS of the Department of Agriculture for further in depth analysis.

5.3 RESULTS AND DISCUSSION

The following were identified as the foremost constraints weakening the phytosanitary export certification system in South Africa:

- inability to interpret the phytosanitary import requirements of the European market
- inadequate scientific knowledge
- insufficient technical communication and co-ordination between NPPO Directorates
- absence or inadequate verification and technical justification of phytosanitary measures

These capacity constraints place a major constraint on the NPPO's capacity to render quality regulatory services and are the elementary barrier to phytosanitary compliance. Based on the outcome of this analysis, a 'certification guideline' to equip the officials with the necessary technical assistance to ensure compliance with the European Union's phytosanitary regulations was developed (Appendix E). This is necessary in order to provide technical support to the phytosanitary certification process and to enable the National Plant Protection Organisation (NPPO) of South Africa to certify compliance with the phytosanitary import regulations of the European Union in terms of Article V of the International Plant Protection Convention (IPPC) (FAO, 1999). The NPPO have the authority to prevent the export of consignments which do not meet an importing country's requirements.

Council Directive 2000/29/EC of 8 May 2000 lays down measures designed to protect plants and plant products against harmful organisms by preventing the spread of these organisms in the European Union (EU). It thus prohibits the presence of identified harmful organisms on plants or plant products and, in order to stop them spreading, it provides for plant-health checks and certificates for

plants and plant products circulating between EU Member States and entering from other countries. The Directive covers living plants and living parts of plants, including, in particular, fruit and vegetables that have not been deep-frozen, tubers, cut flowers, trees and branches with foliage, leaves, live pollen and seeds for planting.

The foundation of this certification guideline is a consolidated version of Council Directive 2000/29/EC of 8 May 2000 with all subsequent amendments. The last amendment incorporated was Commission Directive 2007/41/EC of 28 June 2007. This certification system will be maintained and amended as necessary by the PRA 'export desk' of the Directorate Plant Health of the Department of Agriculture of South Africa.

The phytosanitary report certification system starts with a list of all member States of the EU to date with the relevant country codes for each. All relevant phytosanitary terms and definition are included in order to clarify import requirements. The layout of the directive is explained in detail and a step by step instruction guide take inspectors through the entire certification process.

Annexes I and II index the harmful organisms banned in the EU, either altogether or when they are on certain plants or plant products. Organisms listed occurring in South Africa and which will need certification is highlighted in dark blue. Also incorporated into this guide and attached to Annex I is the host range of identified organisms which is necessary in order to determine pathway to establish entry from South Africa to the EU.

Annex III lists plants and plant products that must not be imported from certain countries. All product prohibited to be exported from SA has been identified and highlighted in blue for easy reference and certification. Annex IV contains the special requirements for regulated product to gain access to EU market. Highlighted in blue are the regulations applicable to South African certification. Annex IV, Part A Section II is not applicable to South Africa.

This Directive subjects certain plants and plant products from third countries (Annex V, part B), which includes South Africa to a phytosanitary inspection and certification. Regulated articles indexed in this annex will require a phytosanitary certificate with or without special requirements contained in Annex IV.

Also established in the certification system are protected zones to guard against certain harmful organisms. The reason for this protection is the absence of specified harmful organisms in this zone despite conditions favourable to their development. The additional protection provided in the protected zones includes:

- an additional list of harmful organisms the introduction and spread of which in the protected zones is prohibited;
- an additional list of plants and plant products the introduction of which into the protected zones is prohibited;
- an additional list of specific requirements to be met by certain crops and crop products when they are introduced into or moved within the EU.

5.4 LITERATURE CITED

Food and Agriculture Organisation. 1999. New revised text of the International Plant Protection Convention, 1997. Food and Agriculture Organisation of the United Nations, Rome.

CHAPTER 6

CONCLUSION

6.1 INTRODUCTION

This section of the report contains the interpretation of the research findings in summary form and provides recommendations for improvements in phytosanitary certification system of South Africa. The objectives of the study were to:

- to identify phytosanitary constraints faced by the South African Export Regulatory System.
- to evaluate the phytosanitary certification system currently used by the National Plant Protection Organisation (NPPO) of South Africa with regard to exports of agricultural produce to the European Union (EU).
- to develop a certification guide to equip the NPPO of South Africa with the necessary technical assistance to ensure compliance with the EU's phytosanitary regulations.

6.2 SUMMARY OF CONSULTATION AND RESEARCH FINDINGS

This section of the report provides a summary of the findings of the research undertaken on the Phytosanitary export regulatory system of South Africa. Inadequate legislation, absence or inadequate information on pests, insufficient human resources, inadequate pest surveillance, inspection and certification, disease free and areas and areas of low pest prevalence not yet identified and inadequate information sharing on pests, were identified as some of the links weakening the phytosanitary export regulatory system in South Africa. The limited availability of qualified professionals in specific fields, characterised by a scarcity of skilled professionals, such as pathologists, entomologists and

virologists, places a constraint on the NPPO's capacity to render quality regulatory supervision.

The constraints faced by the inspectors in the certification to the European markets formed the focus of this qualitative research. This study has quite clearly demonstrated that a lack of fundamental scientific knowledge and the inability to interpret the phytosanitary import requirements of the European market are the elementary barriers to phytosanitary compliance. Another area of great concern is the lack of technical communication and co-ordination between plant health inspectors and Plant Health's Pest Risk Analysis "*export desk*" in the verification and technical justification of phytosanitary measures.

6.3 RECOMMENDATIONS FOR IMPROVEMENTS

This study has quite clearly demonstrated that these capacity constraints place a major restriction on the NPPO's capacity to render quality regulatory services and are the elementary barrier to phytosanitary compliance. Unless corrective action is taken, non-compliance to the EU market will continue and, in the face of increasing global competition, South Africa will suffer declining market access.

In order to provide technical support to the phytosanitary certification process and to enable the (NPPO) of South Africa to certify compliance with the phytosanitary import regulations of the European Union in terms of Article V of the International Plant Protection Convention (IPPC), a '*certification guideline*' to equip the officials with the necessary technical assistance to ensure compliance with the EU's phytosanitary regulations was developed.

The way forward is now to provide the Directorate responsible for export certification with the necessary training with regard to the phytosanitary report certification system for EU compliance and official distribution thereof to all certification offices for the implementation face.

**Development of an effective phytosanitary report certification system for
South African compliance with the European markets**

By

Isabella Bezuidenhout

Promoter: Prof. Lise Korsten
Department: Microbiology and Plant Pathology
Faculty: Natural and Agricultural Sciences
Degree: Minst Agrar (Plant Quarantine)

ABSTRACT

As a result of agreements negotiated at the World Trade Organisation (WTO), traditional trade protection measures such as tariffs and quotas are falling away. But to some extent they are being replaced by domestic technical regulations that permit countries to bar products from entering their markets if the products do not meet certain standards. To become and remain competitive, producers and suppliers must meet the Sanitary and Phytosanitary (SPS) requirements set by importers' governments in importing countries. Some SPS measures are very simple and specific, but others are combined in extremely complex systems like the requirements governing the import of plants and plant products for entry in to the European Union (EU).

The aim of this study was to evaluate the phytosanitary certification system currently used by the National Plant Protection Organisation (NPPO) of South Africa with regard to exports of agricultural produce to the European market and to develop an effective and efficient strategy to ensure compliance with the European Union's phytosanitary regulations.

The expansion of world trade has placed a huge responsibility on the National Plant Protection Organisation (NPPO) of South Africa to facilitate safe agricultural trade with its international trading partners.

After putting the phytosanitary constraints/ weaknesses faced by the South African Export Regulatory System into perspective, numerous aspects of the export process were considered in this study. The NPPO of South Africa does experience capacity constraints in its phytosanitary export regulatory system mostly due to the recent restructuring of the Department of Agriculture (DOA). This information, combined with background information obtained from the personal experience of the author as a plant health officer for the past ten years at the Department of Agriculture and the analysis of questionnaires indicated that the current phytosanitary certification system are the most fundamental impediment to accessing foreign markets.

This is followed by an evaluation of the export certification system to identify the major challenges experienced by the NPPO officials in phytosanitary certification to the European markets. Lack of fundamental scientific knowledge and the inability to interpret the phytosanitary import requirements of the European market were identified as the elementary barriers to phytosanitary compliance

Finally, the accuracy of phytosanitary certification is of paramount importance for international trade. If credibility is lost, this can result in stricter and lengthier inspection procedures in importing countries and eventually loss of markets. This study resulted in the development of a certification guide to equip the NPPO of South Africa with the necessary technical assistance to ensure compliance with the European Union's phytosanitary regulations. This standard operating procedure (SOP) is currently in used by the certification officials of the DOA.

Appendix A

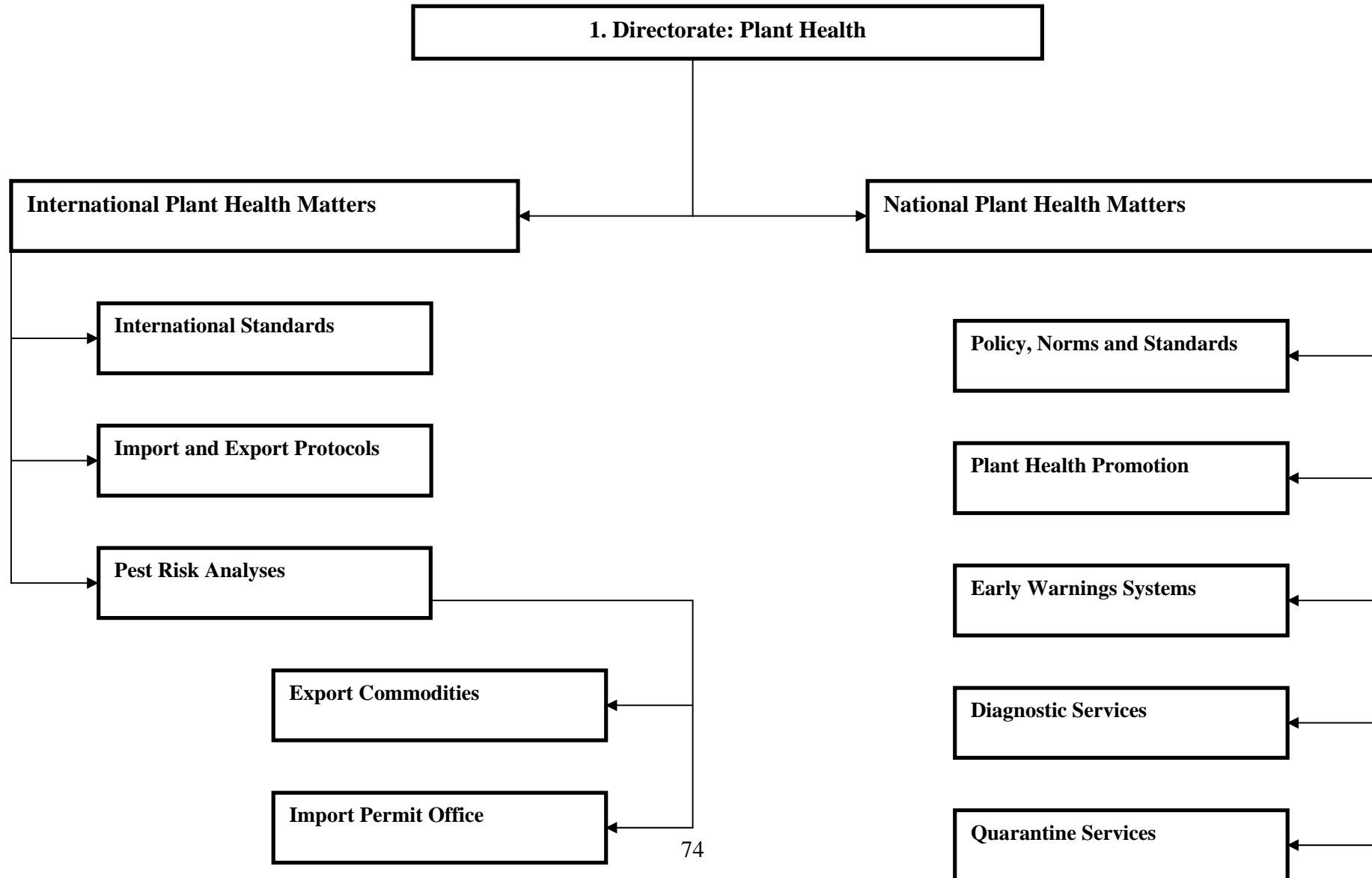
Map of Europe showing the European countries

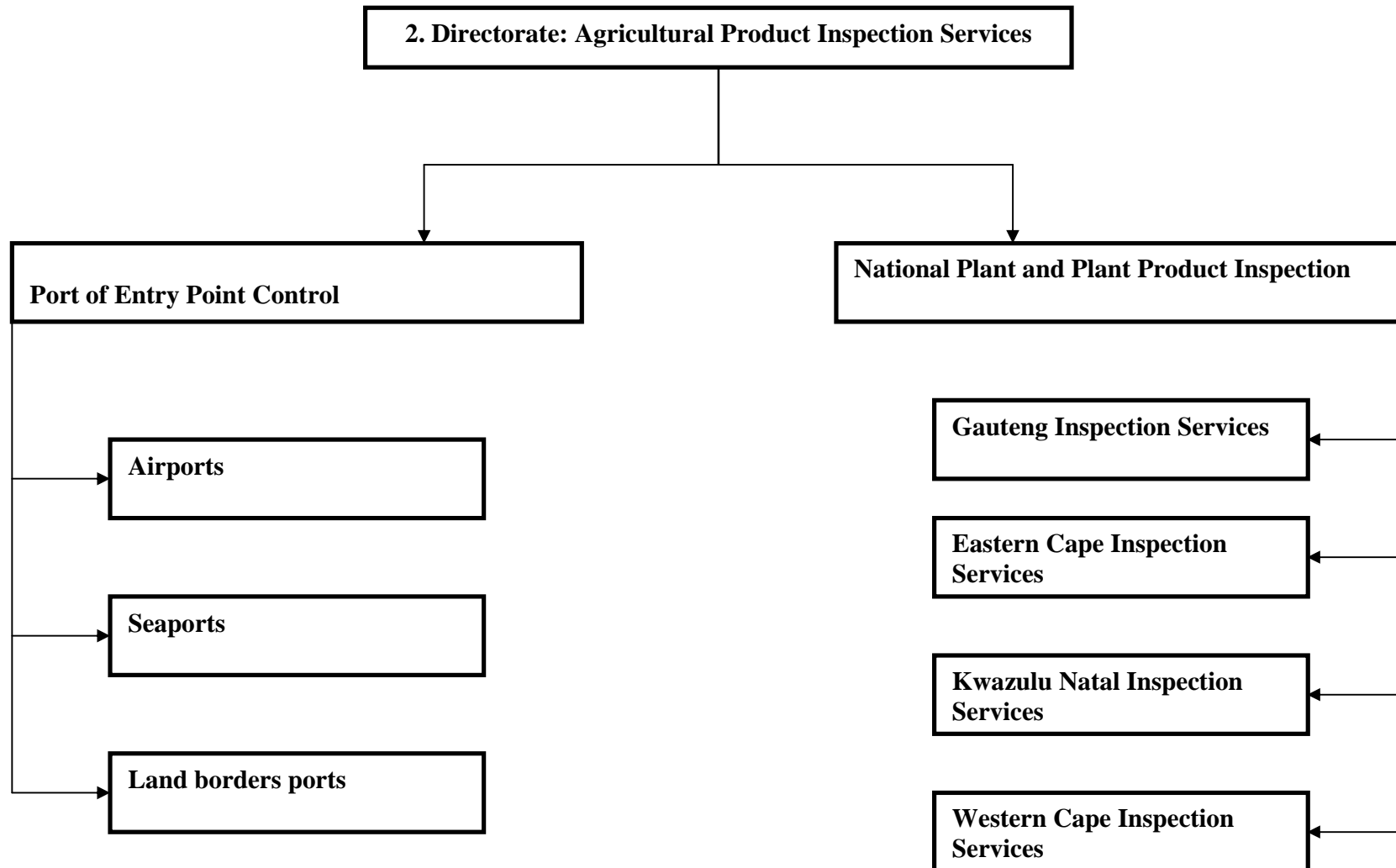


Source: Image © nationsonline.org

Appendix B

Organisational structure of the National Plant Protection Organisation of South Africa





Appendix C

South African export regulatory system survey

In order for the Directorate: Plant Health to improve their technical assistance to APIS inspectors for phytosanitary certification to the European Union (EU), the PRA division is in need of the following information.

OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION (Number)	DO YOU HAVE A DATABASE WITH SPECIFIC AD'S FOR EU CERTIFICATION (Yes/No)	HOW MANY COPIES OF EU DIRECTIVES AT EACH OFFICE (Number)	DO YOU ISSUE "OPEN" PHYTOSANITARY CERTIFICATE FOR THE EU OR DO YOU PROVIDE AD'S ON THE CERTIFICATES (Yes/No)
Gauteng Inspection Services:				
Eastern Cape Inspection Services:				
Western Cape Inspection Services:				

OFFICE	INSPECTORS ACCREDITED FOR PHYTOSANITARY CERTIFICATION (Number)	DO YOU HAVE A DATABASE WITH SPECIFIC AD'S FOR EU CERTIFICATION (Yes/No)	HOW MANY COPIES OF EU DIRECTIVES AT EACH OFFICE (Number)	DO YOU ISSUE "OPEN" PHYTOSANITARY CERTIFICATE FOR THE EU OR DO YOU PROVIDE AD'S ON THE CERTIFICATES (Yes/No)
Kwazulu Natal Inspection Services:				

Thank you for taking the time to participate in this survey. Please forward your completed questionnaire to Isabel Bezuidenhout by no later than 25 April 2008. If you have any questions please call Isabel on (012) 319 6112.

Appendix D

Inspectors' questionnaire

I would now like to ask you some questions about the phytosanitary certification process that you are involved in.

Q1 What are your academic qualification?

Q2 Are you accredited to issue phytosanitary certificates?

Q3 At which office are you stationed?

Q4 How well do you think you understand the concept of phytosanitary certification?

Q5 What is the Council Directive 2000/29/EC of 8 May 2000 and for what is it used?

Q6 Explain procedures to follow when client intent to export to Europe?

Q7 How many member states are part of the European Union?

Q8 Name one regulated article that are prohibited to be exported to the European Union from South Africa?

Q9 What are the major constraints faced in European phytosanitary certification?

Q10 Do you have any comments you would like to make in relation to phytosanitary certification to the European Union?

Thank you for taking the time to participate in this interview.



Appendix E

Phytosanitary report certification system for South African compliance with the European market

European Export Certification guidelines

MEMBER STATES OF THE EUROPEAN UNION

MEMBER STATE	COUNTRY CODE
Austria	AT
Belgium	BE
Bulgaria	BG
Cyprus	CY
Czech Republic	CZ
Denmark	DK
Estonia	EE
Finland	FI
France	FR
Germany	DE
Greece	EL
Hungary	HU
Ireland	IE
Italy	IT
Latvia	LV
Lithuania	LT
Luxembourg	LU
Malta	MT
Netherlands	NL
Poland	PL
Portugal	PT
Romania	RO
Slovakia	SK
Slovenia	SI
Spain	ES
Sweden	SE
United Kingdom	UK

- The abbreviations used are the ISO codes, except for Greece and the United Kingdom, for which EL and UK are recommended (instead of GR and GB).
- Do not use 'Republic of Ireland' nor 'Irish Republic'
- Use 'the Netherlands' not Holland, which is only part of the Netherlands (the provinces of North and South Holland); a capital T is not necessary on 'the'.
- Use 'United Kingdom' for the Member State, not 'Great Britain', which comprises England, Scotland and Wales; these three together with Northern Ireland Are the constituent parts of the United Kingdom. The purely geographical term 'British Isles' includes Ireland and the Crown Dependencies (the Isle of Man and the Channel Islands which are not part of the United Kingdom).

PHYTOSANITARY TERMS AND DEFINITIONS

Continental Europe:	The continent of Europe, excluding the United Kingdom, Isle of Man, Ireland and Iceland.
European Economic Area (EEA):	European Union countries and three of the four European Free Trade Association (EFTA) states; Norway, Iceland and Liechtenstein. Switzerland is not part of the EEA.
European Free Trade Association (EFTA):	Iceland, Liechtenstein, Norway and Switzerland
Harmful organisms:	Any species, strain or biotype of plant, animal or pathogenic agent injurious to plants or plant products
Mediterranean Countries:	The region surrounding the Mediterranean Sea.





Non-European countries:

All countries not belonging to **continental Europe**.

Plants:

Living plants and living parts thereof, including seeds.

Living parts of plants shall be considered to include:

- fruit in the botanical sense other than that preserved by deep freezing,
- Vegetables other than those preserved by deep freezing,
- tubers, corms, bulbs, rhizomes,
- cut flowers,
- branches with foliage,
- cut trees retaining foliage,
- Leaves and foliage,
- plant tissue cultures,
- Live pollen,
- Bud wood, cuttings, scions,
- Any other parts of plants , which may be specified in accordance with the procedures referred to in Article 18(2)

Seeds shall be considered to mean:

- Seed in the botanical sense, other than those not intended for planting

Plant products:

products of plant origin, unprocessed or having undergone simple preparation, in so far as these are not plants

Protected zones:

a zone in the community:

- in which one or more harmful organisms referred to in this Directive, which are established in one or more parts of the Community, are not endemic or established despite favourable conditions for them to establish themselves there,
- in which there is a danger that certain harmful organisms will establish, given propitious



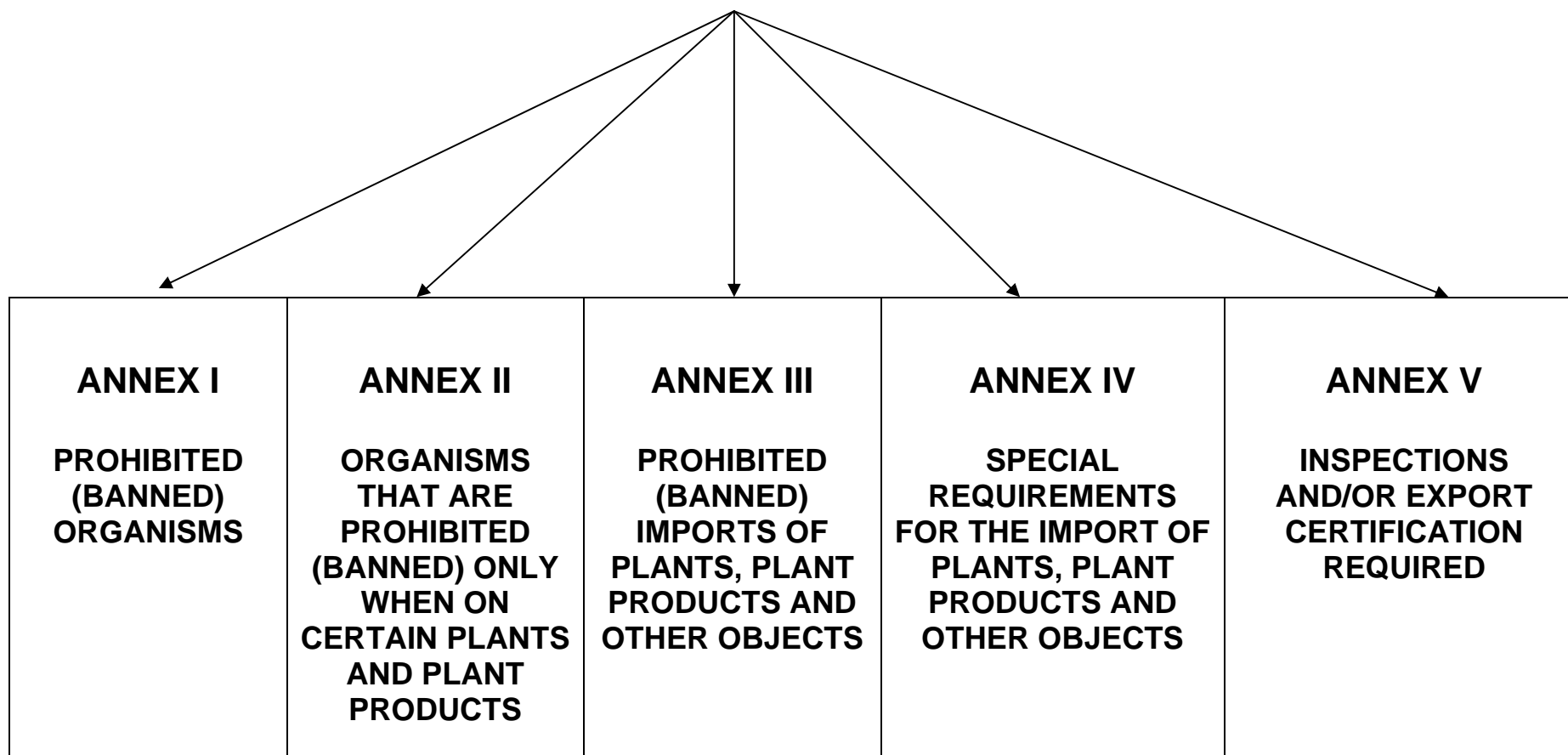
ecological conditions, for particular crops, despite the fact that these organisms are not endemic or established in the Community.

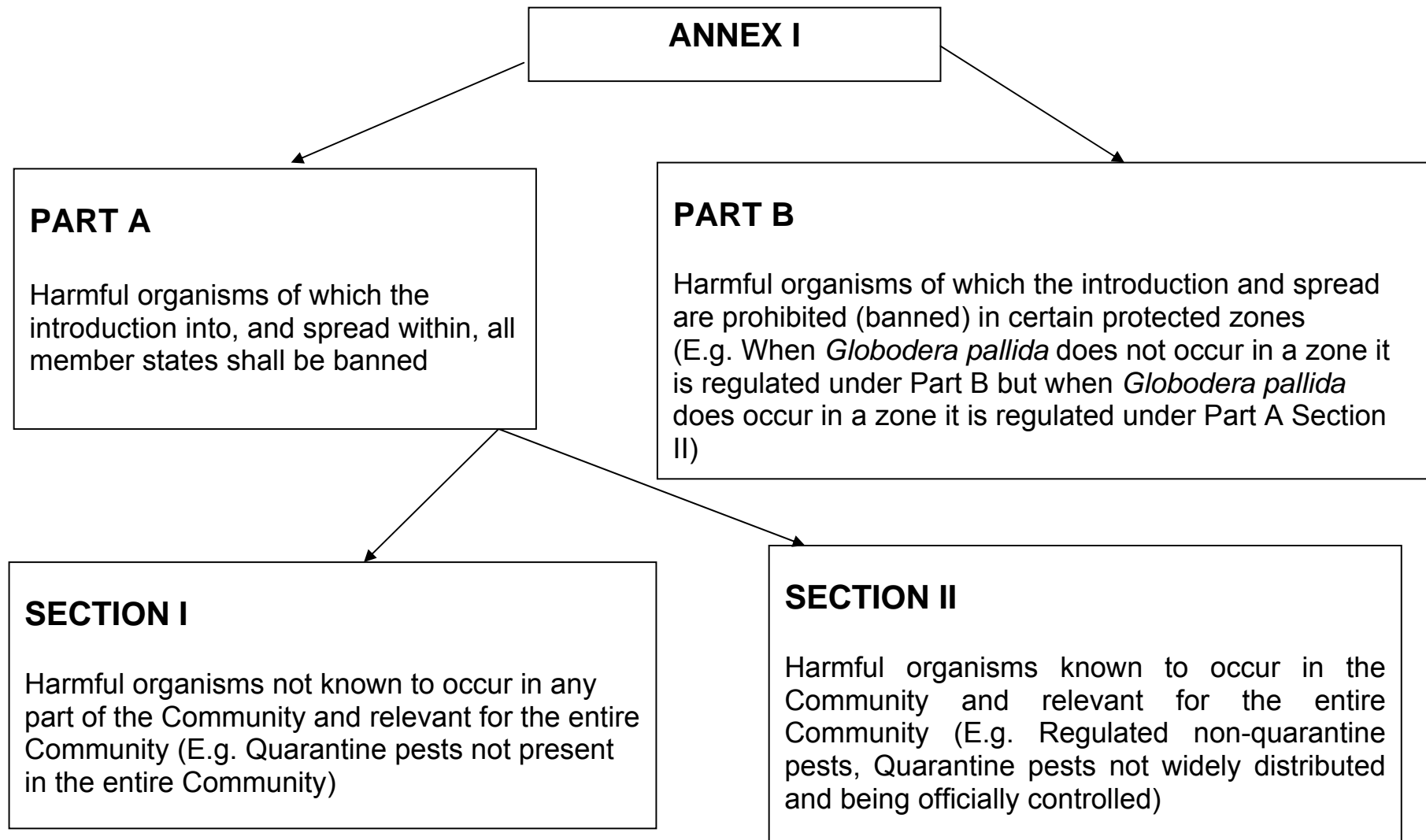
Third Countries:

All countries except countries belonging to the European Union (EU) and the **European Economic Area (EEA)**.



LAYOUT OF THE EU DIRECTIVE







ANNEX II

PART A

Harmful organisms whose introduction into, and spread within, all member states shall be prohibited (banned) if they are present on certain plants or plant products within the whole community on certain plants and plant products

PART B

Harmful organisms whose introduction into, and spread within, certain protected zones shall be prohibited (banned) if they are present on certain plants or plant products (E.g. When harmful organism does not occur in a zone it is regulated under Part B but when the same harmful organism does occur in a zone it is regulated under Part A Section II)

SECTION I

Harmful organisms not known occur in any part of the Community and relevant for the entire Community (E.g. Quarantine pests not present in the entire Community)

SECTION II

Harmful organisms known to occur in the Community and relevant for the entire Community (E.g. regulated non-quarantine pests, Quarantine pests not widely distributed and being officially controlled)



ANNEX III

PART A

Plants, plant products and other objects of which the introduction shall be prohibited (banned) within all member states (Potential exporters need to apply for market access to EU via NPP Contact Point of SA)

PART B

Plants, plant products and other objects of which the introduction shall be prohibited (banned) in certain protected zones (Potential exporters need to apply for market access to EU via NPP Contact Point of SA)



ANNEX IV

PART A

Special requirements which must be laid down by all member states for the introduction and movement of plants, plant products and other objects into and within all member states

PART B

Special requirements which shall be laid down by all member states for the introduction and movement of plants, plant products and other objects into and within certain protected zones

SECTION I

Plants, plant products and other goods originating outside the community

SECTION II

Plants, plant products and other goods originating from inside the community

(Not applicable South Africa)



ANNEX V

PART A

Plants, plant products and other objects
originating in the Community

(Not applicable to South Africa)

PART B

Plants, plant products and other objects
originating in territories, other than those
territories referred to in part A that requires a
phytosanitary inspection and certification

Step by step instruction guideline for European certification

1. Determine whether or not the regulated article is prohibited for export to the EU according to the prescriptions in Annex III.
 - 1.1. If the regulated article is prohibited according to the prescriptions of Annex III Part A the phytosanitary certification process ends. However, an official market access request may be submitted for evaluation by the EU via the SA NPP Contact Point.
 - 1.2. If the regulated article is not prohibited according to the prescriptions of Annex III Part A, the prescriptions in Annex I, II, IV and V will be applicable.
 - 1.3. If the regulated article is prohibited from export from SA to protected zones specified in Annex III Part B the phytosanitary certification process ends for the protected zone, but regulated article may be exported to other member states.
 - 1.4. If the regulated article is not prohibited based on the prescriptions of Annex III Part B, (i.e. not destined for a protected zone) the prescriptions in Annex I, II, IV and V will be applicable.
2. Annex V Part A is not applicable to SA.
 - 2.1. Determine whether or not the regulated article should be subjected to an inspection based on the prescriptions in Annex V Part B.
 - 2.2. If the regulated article is not listed in Annex V Part B the prescriptions of Annexes I and II will be applicable.
 - 2.3. If the regulated article is listed in Annex V Part B the prescriptions of Annex VI for inspection procedures will be applicable as well as the further prescriptions of Annexes I and II.
3. Determine whether the regulated article is destined for a protected zone as specified in Annex IV Part B.
 - 3.1. If the regulated article is destined for a protective zone as specified in Annex IV Part B, the import requirements as prescribed in Annex IV Part B “Special requirements” shall be applicable for phytosanitary certification. Annex I and II will also be applicable.
 - 3.2. If the regulated article is not destined for a protected zone (as specified in Annex IV Part B) then the import requirements in Annex IV Part A Section I will be applicable for phytosanitary certification. Annex I and II will also be applicable
 - 3.3. Note that Annex IV, part A, section II, is not applicable to South Africa

4. Annex II: Organisms that are prohibited (ban) only when on certain plants and plant products
 - 4.1 Look at part A section 1 Harmful organisms not known to occur in any part of the community and relevant for the entire community. Look for plants that are going to be exported in the subject of contamination column. Look at the organism in the species column associated with plants being exported
 - 4.2 If the organism in the species column are not present in SA no inspection and or testing is necessary for that plant
 - 4.3 If the organism in the species column is present in SA inspection and or testing is necessary for that plant to declare freedom of. It is important that we contact the PRA division (Isabel Bezuidenhout (012) 319-6112 for phytosanitary options
 - 4.4 Look at annex II part A section II: 1 Harmful organism known to occur in the community and relevant for the entire community. Look for plants that are going to be exported in the subject of contamination column. Look at the organism in the species column associated with plants being exported
 - 4.5 If the organism in the species column are not present in SA no inspection and or testing is necessary for that plant
 - 4.6 If the organism in the species column is present in SA inspection and or testing is necessary for that plant to declare freedom of. It is important that we contact the PRA division (Isabel Bezuidenhout (012) 319-6112 for phytosanitary options
 - 4.7 Look at Annex II Part B: Harmful organisms whose introduction into and spread within certain protected zones shall be prohibited (banned) if they are present on certain plants or plant products.
 - 4.8 If the plant for export are going to a protected zone as specified in the protected zone column then the additional organisms in the species column is applicable for that plant to that zone. Remember that Annex II part A is also applicable
 - 4.9 If the plants for export is no specified in annex II then annex II is not applicable to that export
5. Annex I: Harmful organisms of which the introduction into, and spread within, all member states shall be banned
 - 5.1 Look at part A section I: Harmful organisms not known to occur in any part of the community and relevant for the entire community
 - 5.2 Identify the list of organisms that occur in SA and that are associated with the host plants that are going to be exported (Information will be provided by PRA).

- 5.3 Look at part A section II: Harmful organisms known to occur in the community and relevant for the entire community
- 5.4 Identify the list of organisms that occur in SA and that are associated with the host plants that are going to be exported (Information will be provided by PRA).
- 5.5 Look at Annex I Part B: Harmful organisms of which the introduction and spread are prohibited (banned) in certain protected zones
- 5.6 Identify the list of organisms that occur in SA and that are associated with the host plants that are going to be exported to that protected zone as mentioned in the protected zone column. (Information will be provided by PRA).

ALL ORGANISMS PRINTED IN BLUE OCCUR IN SOUTH AFRICA AND NEEDS TO BE CERTIFIED ON THE PHYTOSANITARY CERTIFICATES



ANNEX I

PART A

HARMFUL ORGANISMS WHOSE INTRODUCTION INTO, AND SPREAD WITHIN, ALL MEMBER STATES SHALL BE BANNED

Section I

HARMFUL ORGANISMS NOT KNOWN TO OCCUR IN ANY PART OF
THE COMMUNITY AND RELEVANT FOR THE ENTIRE COMMUNITY

(a) Insects, mites and nematodes, at all stages of their development

1. *Acleris* spp. (non-European)
Acleris gloverana^{1,8}
Acleris variana^{1,8}
2. *Amauromyza maculosa* (Malloch)¹
3. *Anomala orientalis* Waterhouse¹
4. *Anoplophora chinensis* (Thomson)¹
- 4.1. *Anoplophora glabripennis* (Motschulsky)^{1,8}
5. *Anoplophora malasiaca* (Forster)¹
6. *Arrhenodes minutus* Drury⁸
7. ***Bemisia tabaci*¹** (Biotype B) Genn. (non-European populations) vector of viruses such as:
 - (a) Bean golden mosaic virus^{1,4,8}
 - (b) Cowpea mild mottle virus^{1,4}
 - (c) Lettuce infectious yellows virus^{1,4,8}
 - (d) Pepper mild tigré virus⁴**
 - (e) Squash leaf curl virus¹
 - (f) Euphorbia mosaic virus⁴
 - (g) Florida tomato virus¹
8. Cicadellidae (non-European) known to be vector of Pierce's disease (caused by *Xylella fastidiosa*), such as:
 - (a) *Carneocephala fulgida* Nottingham^{1,8}
 - (b) *Draeculacephala minerva* Ball^{1,8}
 - (c) *Graphocephala atropunctata* (Signoret)^{1,8}
9. *Choristoneura* spp. (non-European)
Choristoneura conflictana^{1,8}
Choristoneura fumiferana^{1,8}
Choristoneura occidentalis^{1,8}
Choristoneura rosaceana^{1,8}
10. *Conotrachelus nenuphar* (Herbst)^{1,8}
- 10.1. *Diabrotica barberi* Smith and Lawrence^{1,8}
- 10.2. *Diabrotica undecimpunctata howardi* Barber¹
- 10.3. *Diabrotica undecimpunctata undecimpunctata* Mannerheim^{1,8}



- 10.4. *Diabrotica virgifera* Le Conte¹
11. *Heliothis (Helicoverpa) zea* (Boddie)^{1,8}
- 11.1. *Hirschmanniella* spp., other than *Hirschmanniella gracilis*^{1,6,7} (de Man) Luc and Goodey
12. *Liriomyza sativae* Blanchard¹
13. *Longidorus diadecturus* Eveleigh and Allen^{6,7}
14. *Monochamus* spp. (non-European)
 - Monochamus alternatus*^{1,8}
 - Monochamus carolinensis*^{1,8}
 - Monochamus leuconotus*¹**
 - Monochamus marmorator*^{1,8}
 - Monochamus mutator*^{1,8}
 - Monochamus nitens*^{1,8}
 - Monochamus notatus*^{1,8}
 - Monochamus obtusus*^{1,8}
 - Monochamus saltuarius*^{1,8}
 - Monochamus scutellatus*^{1,8}
 - Monochamus titillator*^{1,8}
15. *Myndus crudus* Van Duzee^{1,8}
16. *Nacobbus aberrans* (Thorne) Thorne and Allen^{1,6,7,8}
- 16.1. *Naupactus leucoloma* Boheman^{1,8}**
17. *Premnotypes* spp. (non-European)
 - Premnotypes latithorax*^{1,8}
 - Premnotypes suturicallus*^{1,8}
 - Premnotypes vorax*^{1,8}
18. *Pseudopityophthorus minutissimus* (Zimmermann)^{1,8}
19. *Pseudopityophthorus pruinus* (Eichhoff)^{1,8}
20. *Scaphoideus luteolus* (Van Duzee)^{1,8}
21. *Spodoptera eridania* (Cramer)^{1,8}
22. *Spodoptera frugiperda* (Smith)^{1,8}
23. *Spodoptera litura* (Fabricus)^{1,8}
24. *Thrips palmi* Karny¹
25. Tephritidae (non-European) such as:
 - (a) *Anastrepha fraterculus* (Wiedemann)^{1,5,8}
 - (b) *Anastrepha ludens* (Loew)^{1,5,8}
 - (c) *Anastrepha obliqua* Macquart^{1,5,8}
 - (d) *Anastrepha suspensa* (Loew)^{1,5,8}
 - (e) *Dacus ciliatus* Loew^{1,5}**
 - (f) *Dacus (Bactrocera) curcurbitae* Coquillett^{1,5,8}
 - (g) *Dacus (Bactrocera) dorsalis* Hendel^{1,5,8}
 - (h) *Dacus (Bactrocera) tryoni* (Froggatt)^{1,5,8}
 - (i) *Dacus (Bactrocera) tsuneonis* Miyake^{1,5,8}
 - (j) *Dacus (Bactrocera) zona* Saund.^{1,5,8}
 - (k) *Epochra canadensis* (Loew)^{1,5}
 - (l) *Pardalaspis (Neoceratitis) cyanescens* Bezzi¹
 - (m) *Pardalaspis (Ceratitis) quinaris* Bezzi^{1,5}**
 - (n) *Pterandrus (Ceratitis) rosa* (Karsch)^{1,5}**



- (o) *Rhacochlaena (Euphranta) japonica* Ito⁸
- (p) *Rhagoletis cingulata* (Loew)^{1,5}
- (q) *Rhagoletis completa* Cresson^{1,5}
- (r) *Rhagoletis fausta* (Osten-Sacken)^{1,5,8}
- (s) *Rhagoletis indifferens* Curran^{1,5,8}
- (t) *Rhagoletis mendax* Curran^{1,5,8}
- (u) *Rhagoletis pomonella* Walsh^{1,5,8}
- (v) *Rhagoletis ribicola* Doane^{1,5}
- (w) *Rhagoletis suavis* (Loew)^{1,5}
- 26. *Xiphinema americanum* Cobb *sensu lato* (non-European populations)
Xiphinema americanum sensu lato consists of the following species:
X. americanum^{6,7,8}
X. rivesi
X. californicum
X. brevicolle
- 27. *Xiphinema californicum* Lamberti and Bleve-Zacheo^{1,6,7,8}

(b) Bacteria

- 1. *Xylella fastidiosa* (Well and Raju)^{1,4,8}

(c) Fungi

- 1. *Ceratocystis fagacearum* (Bretz) Hunt^{1,2,8}
- 2. *Chrysomyxa arctostaphyli* Dietel^{1,2,8}
- 3. *Cronartium* spp. (non-European)
Cronartium coleosporiodes^{1,2,8}
Cronartium comandrae^{1,2,8}
Cronartium comptoniae^{1,2,8}
Cronartium fusiforme^{1,2,8}
Cronartium himalayense^{1,2,8}
Cronartium quercuum^{1,2,8}
- 4. *Endocronartium* spp. (non-European)
Endocronartium harknessii^{1,2,8}
- 5. *Guignardia loricata* (Saw.) Yamamoto and Ito^{1,2}
- 6. *Gymnosporangium* spp. (non-European)
Gymnosporangium clavipes^{1,2,8}
Gymnosporangium globosum^{1,2,8}
Gymnosporangium juniperi-virginianae^{1,2,8}
Gymnosporangium yamadae^{1,2,8}
- 7. *Inonotus weirii* (Murril) Kotlaba and Pouzar^{1,2}
- 8. *Melampsora farlowii* (Arthur) Davis^{1,2,8}
- 9. *Monilinia fructicola* (Winter) Honey^{1,2}
- 10. *Mycosphaerella larici-leptolepis* Ito *et al.*^{2,8}
- 11. *Mycosphaerella populorum* G. E. Thompson^{1,2,8}
- 12. *Phoma andina* Turkensteen^{1,2,8}
- 13. *Phyllosticta solitaria* Ellis & Everh.^{1,2,8}

14. *Septoria lycopersici* Speg. var. *malagutii* Ciccarone and Boerema^{1,2,8}
15. *Thecaphora solani* Barrus^{1,2,8}
- 15.1. *Tilletia indica* Mitra^{1,2,8}
16. *Trechispora brinkmannii* (Bresad.) Rogers²

(d) **Viruses and virus-like organisms**

1. Elm phloem necrosis mycoplasma⁴
2. Potato viruses and virus-like organisms such as:
 - (a) Andean potato latent virus^{1,4,8}
 - (b) Andean potato mottle virus^{1,4,8}
 - (c) Arracacha virus B, oca strain^{1,4}
 - (d) Potato black ringspot virus^{1,4,8}
 - (e) Potato spindle tuber viroid^{1,4,8}
 - (f) Potato virus T^{1,4,8}
 - (g) non-European isolates of potato viruses A, M, S, V, X and Y (including Yo, YN and YC) and Potato leafroll virus^{1,4}**
3. Tobacco ringspot virus^{1,4,8}
4. Tomato ringspot virus^{1,4,8}
5. Viruses and virus-like organisms of *Cydonia* Mill., *Fragaria* L., *Malus* Mill., *Prunus* L., *Pyrus* L., *Ribes* L., *Rubus* L. and *Vitis* L., such as:
 - (a) Blueberry leaf mottle virus^{1,4,8}
 - (b) Cherry rasp leaf virus (American)^{1,4,8}**
 - (c) Peach mosaic virus (American)^{1,4,8}
 - (d) Peach phony rickettsia⁴
 - (e) Peach rosette mosaic virus^{1,4,8}
 - (f) Peach rosette mycoplasma^{1,4}
 - (g) Peach X-disease mycoplasma^{1,4}
 - (h) Peach yellows mycoplasma^{1,4}
 - (i) Plum line pattern virus (American)^{1,4}
 - (j) Raspberry leaf curl virus (American)^{1,4,8}
 - (k) Strawberry latent 'C' virus^{1,4,8}
 - (l) Strawberry vein banding virus⁴**
 - (m) Strawberry witches' broom mycoplasma^{1,4}
 - (n) Non-European viruses and virus-like organisms of *Cydonia* Mill., *Fragaria* L., *Malus* Mill., *Prunus* L., *Pyrus* L., *Ribes* L., *Rubus* L. and *Vitis* L.
6. Viruses transmitted by *Bemisia tabaci* Genn., such as:
 - (a) Bean golden mosaic virus^{1,4,8}
 - (b) Cowpea mild mottle virus^{1,4}
 - (c) Lettuce infectious yellows virus^{1,4,8}
 - (d) Pepper mild tigré virus⁴**
 - (e) Squash leaf curl virus^{1,4,8}
 - (f) Euphorbia mosaic virus⁴
 - (g) Florida tomato virus¹



(e) Parasitic plants

1. *Arceuthobium* spp. (non-European)
Arceuthobium abietinum^{1,8}
Arceuthobium americanum^{1,8}
Arceuthobium campylopodum^{1,8}
*Arceuthobium divaricum*¹
Arceuthobium douglasii^{1,8}
Arceuthobium laricis^{1,8}
Arceuthobium minutissimum^{1,8}
Arceuthobium occidentale^{1,8}
Arceuthobium pusillum^{1,8}
Arceuthobium tsugense^{1,8}
Arceuthobium vaginatum^{1,8}

Section II

HARMFUL ORGANISMS KNOWN TO OCCUR IN THE COMMUNITY AND RELEVANT FOR THE ENTIRE COMMUNITY

(a) Insects, mites and nematodes, at all stages of their development

1. *Globodera pallida* (Stone) Behrens^{1,6,7,8}
2. *Globodera rostochiensis* (Wollenweber) Behrens^{1,6,7,8}
3. *Heliothis (Helicoverpa) armigera* (Hübner)^{1,8}
- 6.1. *Meloidogyne chitwoodi* Golden *et al.* (all populations)^{1,6,7,8}
- 6.2. *Meloidogyne fallax* Karssen^{1,6,7,8}
7. *Opogona sacchari* (Bojer)^{1,8}
8. *Popilia japonica* Newman^{1,8}
- 8.1. *Rhizoecus hibisci* Kawai and Takagi¹
9. *Spodoptera littoralis* (Boisduval)^{1,8}

(b) Bacteria

1. *Clavibacter michiganensis* (Smith) Davis *et al.* ssp. *sepedonicus* (Spieckermann and Kotthoff) Davis *et al.*^{1,4,8}
2. *Pseudomonas (Ralstonia) solanacearum* (Smith) Smith
Pseudomonas (Ralstonia) solanacearum race 1^{1,4,8}
Pseudomonas (Ralstonia) solanacearum race 2^{1,4,8}
Pseudomonas (Ralstonia) solanacearum race 3^{1,4,8}

(c) Fungi

1. *Melampsora medusae* Thümen^{1,2,8}
2. *Synchytrium endobioticum* (Schilbersky) Percival^{1,2,8}

(d) Viruses and virus-like organisms

1. Apple proliferation mycoplasma^{1,4}
2. Apricot chlorotic leafroll mycoplasma^{1,4}
3. Pear decline mycoplasma^{1,4}

PART B

HARMFUL ORGANISMS WHOSE INTRODUCTION INTO, AND WHOSE SPREAD WITHIN, CERTAIN PROTECTED ZONES SHALL BE BANNED

(a) Insects, mites and nematodes, at all stages of their development

Species	Protected zone(s)
1. <i>Bemisia tabaci</i> Genn. (European populations) ¹	IRL, P (Azores, Beira Interior, Beira Litoral, Entre Douro e Minho, Madeira, Ribatejo e Oeste (communes of Alcobaça, Alenquer, Bombarral, Cadaval, Caldas da Rainha, Lourinhã, Nazaré, Obidos, Peniche and Torres Vedras) and Trás-os-Montes), UK, S, FI
1.1. <i>Daktulosphaira vitifoliae</i> (Fitch) ¹	CY
2. <i>Globodera pallida</i> (Stone) Behrens ^{1,6,7,8}	FI, LV, SI, SK
3. <i>Leptinotarsa decemlineata</i> Say ¹	E (Ibiza and Menorca), IRL, CY, M, P (Azores and Madeira), UK, S (Malmöhus, Kristianstads, Blekinge, Kalmar, Gotlands Län, Halland), FI (the districts of Åland, Turku, Uusimaa, Kymi, Häme, Pirkanmaa, Satakunta)
4. <i>Liriomyza bryoniae</i> (Kaltenbach) ¹	IRL and UK (Northern Ireland)

(b) Viruses and virus-like organisms

Species	Protected zone(s)
1. Beet necrotic yellow vein virus ^{1,4,8}	F (Britanny), FI, IRL, P (Azores), UK (Northern Ireland)
2. Tomato spotted wilt virus ^{1,4,8}	S, FI

Annex 1 A: Host range of organisms that occur in South Africa

Table 1: Host range of insects occurring in South Africa

INSECTS	HOST RANGE
<i>Bemisia tabaci</i>¹ [tobacco whitefly; silver leaf whitefly]	<i>Abelmoschus esculentus</i> ¹ (okra), <i>Arachis hypogaea</i> ¹ (groundnut), <i>Brassica oleracea</i> var. <i>botrytis</i> ¹ (cauliflower), <i>Brassica oleracea</i> var. <i>gemmifera</i> ¹ (Brussels sprouts), <i>Brassica oleracea</i> var. <i>italica</i> ¹ (broccoli), <i>Cajanus cajan</i> ¹ (pigeon pea), <i>Capsicum annuum</i> ¹ (bell pepper), <i>Carica papaya</i> ¹ (papaw), <i>Cucumis sativus</i> ¹ (cucumber), <i>Euphorbia pulcherrima</i> ¹ (poinsettia), <i>Gerbera jamesonii</i> ¹ (African daisy), <i>Glycine max</i> ¹ (soybean), <i>Gossypium hirsutum</i> ¹ (Bourbon cotton), <i>Ipomoea batatas</i> ¹ (sweet potato), <i>Lactuca sativa</i> ¹ (lettuce), <i>Lycopersicon esculentum</i> ¹ (tomato), <i>Manihot esculenta</i> ¹ (cassava), <i>Nicotiana tabacum</i> ¹ (tobacco), <i>Phaseolus vulgaris</i> ¹ (common bean), <i>Piper nigrum</i> ¹ (black pepper), <i>Sinningia speciosa</i> ¹ (gloxinia), <i>Solanum melongena</i> ¹ (aubergine), <i>Solanum tuberosum</i> ¹ (potato)
<i>Ceratitis quinaria</i>^{1,5} [Rhodesian fruit fly]	<i>Citrus</i> , ^{1,5} <i>Prunus americana</i> ^{1,5} (apricot), <i>Prunus persica</i> ^{1,5} (peach), <i>Psidium guajava</i> ^{1,5} (guava)
<i>Ceratitis rosa</i>^{1,5} [Natal fruitfly]	<i>Annona reticulata</i> ^{1,5} (bullock's heart), <i>Averrhoa carambola</i> ^{1,5} (carambola), <i>Capsicum frutescens</i> ^{1,5} (chilli), <i>Carica papaya</i> ^{1,5} (papaw), <i>Carissa macrocarpa</i> ^{1,5} (natal plum), <i>Citrus</i> , ¹ <i>Citrus aurantium</i> ^{1,5} (sour orange), <i>Citrus reticulata</i> ^{1,5} (mandarin), <i>Citrus sinensis</i> ^{1,5} (navel orange), <i>Coffea</i> ¹ (coffee), <i>Coffea arabica</i> ^{1,5} (arabica coffee), <i>Cydonia oblonga</i> ^{1,5} (quince), <i>Eriobotrya japonica</i> ¹ (loquat),



INSECTS	HOST RANGE
	<i>Eugenia uniflora</i> ^{1,5} (surinam cherry), <i>Ficus carica</i> ^{1,5} (fig), <i>Garcinia mangostana</i> ^{1,5} (mangosteen), <i>Litchi chinensis</i> ^{1,5} (litchi), <i>Lycopersicon esculentum</i> ^{1,5} (tomato), <i>Malus domestica</i> ^{1,5} (apple), <i>Mangifera indica</i> ^{1,5} (mango), <i>Manilkara zapota</i> ¹ (sapodilla), <i>Persea americana</i> ^{1,5} (avocado), <i>Prunus armeniaca</i> ^{1,5} (apricot), <i>Prunus domestica</i> ^{1,5} (plum), <i>Prunus persica</i> ^{1,5} (peach), <i>Prunus salicina</i> ¹ (Japanese plum), <i>Psidium guajava</i> ^{1,5} (guava), <i>Psidium longipes</i> ^{1,5} (strawberry guava), <i>Pyrus communis</i> ^{1,5} (European pear), <i>Syzygium aqueum</i> ^{1,5} (watery rose-apple), <i>Syzygium cumini</i> ^{1,5} (black plum), <i>Syzygium jambos</i> ¹ (rose apple), <i>Syzygium malaccense</i> ^{1,5} (malay-apple), <i>Terminalia catappa</i> ^{1,5} (Singapore almond), <i>Theobroma cacao</i> ^{1,5} (cocoa), <i>Vitis vinifera</i> ^{1,5} (grapevine), <i>Ziziphus jujuba</i> ^{1,5} (common jujube)
<i>Dacus ciliatus</i> ^{1,5} [lesser pumpkin fly]	<i>Citrullus colocynthis</i> ⁵ (colocynth) <i>Citrullus lanatus</i> ^{1,5} (watermelon), <i>Cucumis melo</i> ^{1,5} (melon), <i>Cucumis sativus</i> ^{1,5} (cucumber), <i>Cucumis metuliferus</i> ⁵ (African horned cucumber) <i>Cucurbita maxima</i> ^{1,5} (giant pumpkin), <i>Cucurbita pepo</i> ^{1,5} (ornamental gourd), <i>Lagenaria siceraria</i> ⁵ (white-flowered gourd) <i>Luffa acutangula</i> ^{1,5} (angled luffa), <i>Luffa aegyptiaca</i> ^{1,5} (luffa), <i>Lycopersicon esculentum</i> ^{1,5} (tomato) <i>Momordica balsamina</i> ⁵ (balsam apple) <i>Momordica charantia</i> ^{1,5} (bitter gourd), <i>Sechium edule</i> ⁵ (chayote) <i>Trichosanthes cucumerina</i> var. <i>anginea</i> ^{1,5} (snakegourd)
<i>Daktulosphaira vitifoliae</i> ¹ [grapevine phylloxera]	<i>Vitis</i> ¹ (grape), <i>Vitis aestivalis</i> ¹ (Summer grape), <i>Vitis labrusca</i> ¹ (fox grape), <i>Vitis riparia</i> ¹ (riverbank grape (USA)),



INSECTS	HOST RANGE
	<i>Vitis vinifera</i> ¹ (grapevine)
<i>Heliothis armigera</i> ^{1,8} [African cotton bollworm]	<i>Abelmoschus esculentus</i> ^{1,8} (okra), <i>Albizia procera</i> ^{1,8} (white siris), <i>Allium</i> ¹ (onions, garlic, leek, etc.), <i>Arachis hypogaea</i> ^{1,8} (groundnut), <i>Avena sativa</i> ^{1,8} (oats), <i>Brassica oleracea</i> var. <i>gemmifera</i> ^{1,8} (Brussels sprouts), <i>Brassica oleracea</i> var. <i>italica</i> ^{1,8} (broccoli), <i>Broussonetia papyrifera</i> ^{1,8} (paper mulberry), <i>Cajanus cajan</i> ^{1,8} (pigeon pea), <i>Capsicum annuum</i> ^{1,8} (bell pepper), <i>Cicer arietinum</i> ^{1,8} (chickpea), <i>Citrus</i> , ¹ <i>Glycine max</i> ^{1,8} (soybean), <i>Gossypium</i> ^{1,8} (cotton), <i>Helianthus annuus</i> ^{1,8} (sunflower), <i>Hordeum vulgare</i> ^{1,8} (barley), <i>Lablab purpureus</i> ^{1,8} (hyacinth bean), <i>Linum usitatissimum</i> ^{1,8} (flax), <i>Lycopersicon esculentum</i> ^{1,8} (tomato), <i>Mangifera indica</i> ^{1,8} (mango), <i>Nicotiana tabacum</i> ^{1,8} (tobacco), <i>Pennisetum glaucum</i> ^{1,8} (pearl millet), <i>Phaseolus vulgaris</i> ^{1,8} (common bean), <i>Pinus</i> ¹ (pines), <i>Pisum sativum</i> ^{1,8} (pea), <i>Solanum melongena</i> ^{1,8} (aubergine), <i>Solanum tuberosum</i> ^{1,8} (potato), <i>Sorghum bicolor</i> ^{1,8} (sorghum), <i>Triticum aestivum</i> ^{1,8} (wheat), <i>Vigna unguiculata</i> ^{1,8} (cowpea), <i>Zea mays</i> ^{1,8} (maize)
<i>Monochamus leuconotus</i> ¹ [white coffee stem borer]	<i>Coffea</i> ¹ (coffee)
<i>Naupactus leucoloma</i> ^{1,8} [whitefringed weevil]	<i>Allium cepa</i> ^{1,8} (onion), <i>Arachis hypogaea</i> ^{1,8} (groundnut), <i>Ipomoea batatas</i> ^{1,8} (sweet potato), <i>Medicago sativa</i> ^{1,8} (lucerne), <i>Solanum tuberosum</i> ^{1,8} (potato), <i>Trifolium repens</i> ^{1,8} (white clover)
<i>Opogona sacchari</i> ^{1,8} [banana moth]	<i>Alpinia</i> , ¹ <i>Ananas comosus</i> ^{1,8} (pineapple),



INSECTS	HOST RANGE
	<i>Begonia</i> , ¹ <i>Bougainvillea spectabilis</i> ^{1,8} (Bougainvillea), <i>Capsicum</i> ¹ (peppers), <i>Cordyline</i> , ¹ <i>Dieffenbachia</i> ^{1,8} (dumbcanes), <i>Dioscorea</i> ¹ (yam), <i>Euphorbia pulcherrima</i> ^{1,8} (poinsettia), <i>Ficus</i> , ¹ <i>Heliconia</i> , ¹ <i>Hippeastrum</i> , ¹ <i>Maranta</i> ¹ (arrowroot), <i>Musa</i> ¹ (banana), <i>Philodendron</i> , ¹ <i>Saccharum officinarum</i> ^{1,8} (sugarcane), <i>Saintpaulia</i> ¹ (african violet), <i>Sansevieria</i> ¹ (snake plant), <i>Sinningia speciosa</i> ^{1,8} (gloxinia), <i>Solanum melongena</i> ^{1,8} (aubergine) <i>Strelitzia</i> , ¹ <i>Yucca</i> , ¹ <i>Zea mays</i> ^{1,8} (maize)
<i>Spodoptera littoralis</i>^{1,8} [cotton leafworm]	<i>Abelmoschus esculentus</i> ^{1,8} (okra), <i>Acacia nilotica</i> ^{1,8} (gum arabic tree), <i>Actinidia arguta</i> ^{1,8} (tara vine), <i>Alcea rosea</i> ^{1,8} (Hollyhock), <i>Allium cepa</i> ^{1,8} (onion), <i>Allium fistulosum</i> ^{1,8} (Welsh onion), <i>Amaranthus</i> ^{1,8} (grain amaranth), <i>Anemone</i> ¹ (windflower), <i>Apium graveolens</i> ^{1,8} (celery), <i>Arachis hypogaea</i> ^{1,8} (groundnut), <i>Asparagus officinalis</i> ^{1,8} (asparagus), <i>Beta vulgaris</i> ^{1,8} (beetroot), <i>Beta vulgaris var. saccharifera</i> ^{1,8} (sugarbeet), <i>Brassica oleracea</i> ^{1,8} (cabbages, cauliflowers), <i>Brassica oleracea var. capitata</i> ^{1,8} (cabbage), <i>Brassica rapa subsp. chinensis</i> ^{1,8} (Chinese cabbage), <i>Caladium</i> , ¹ <i>Callistephus chinensis</i> ^{1,8} (China aster), <i>Camellia sinensis</i> ^{1,8} (tea), <i>Canna</i> , ¹ <i>Capsicum</i> ¹ (peppers), <i>Capsicum annuum</i> ^{1,8} (bell pepper), <i>Chloris gayana</i> ^{1,8} (rhodes grass),

INSECTS	HOST RANGE
	<p> <i>Chrysanthemum indicum</i>^{1,8} (chrysanthemum), <i>Citrullus lanatus</i>^{1,8} (watermelon), <i>Citrus</i>,¹ <i>Citrus aurantium</i>^{1,8} (sour orange), <i>Coffea arabica</i>^{1,8} (arabica coffee), <i>Convolvulus</i>^{1,8} (morning glory), <i>Corchorus capsularis</i>^{1,8} (white jute), <i>Corchorus olitorius</i>^{1,8} (jute), <i>Cryptomeria</i>,¹ <i>Cucurbita</i>¹ (pumpkin), <i>Cucurbita pepo</i>^{1,8} (ornamental gourd), <i>Cynara cardunculus</i> L. var. <i>scolymus</i>^{1,8} (globe artichoke), <i>Daucus carota</i>^{1,8} (carrot), <i>Dalbergia sissoo</i>,^{1,8} <i>Datura</i>¹ (thorn-apple), <i>Dianthus barbatus</i>^{1,8} (sweet williams), <i>Dianthus caryophyllus</i>^{1,8} (carnation), <i>Ficus carica</i>^{1,8} (fig), <i>Gerbera</i>^{1,8} (Barbeton daisy), <i>Glycine max</i>^{1,8} (soybean), <i>Gossypium</i>¹ (cotton), <i>Gossypium barbadense</i>^{1,8} (Gallini cotton), <i>Helianthus annuus</i>^{1,8} (sunflower), <i>Helianthus tuberosus</i>^{1,8} (Jerusalem artichoke), <i>Hibiscus cannabinus</i>^{1,8} (kenaf), <i>Hibiscus mutabilis</i>^{1,8} (cottonrose), <i>Indigofera tinctoria</i>^{1,8} (Indigo), <i>Ipomoea batatas</i>^{1,8} (sweet potato), <i>Lactuca sativa</i>^{1,8} (lettuce), <i>Lantana</i>,¹ <i>Luffa aegyptiaca</i>^{1,8} (loofah), <i>Lycopersicon</i>,¹ <i>Lycopersicon esculentum</i>^{1,8} (tomato), <i>Medicago sativa</i>^{1,8} (lucerne), <i>Melilotus</i> spp.,¹ <i>Mentha spicata</i>^{1,8} (Spear mint), <i>Morus</i>¹ (mulberrytree), <i>Musa x paradisiaca</i>^{1,8} (plantain), <i>Musa</i>¹ (banana), <i>Nicotiana tabacum</i>^{1,8} (tobacco), <i>Opuntia</i>¹ (Pricklypear), <i>Oryza sativa</i>^{1,8} (rice), <i>Persea americana</i>^{1,8} (avocado), <i>Phaseolus</i>¹ (beans), <i>Phaseolus vulgaris</i>^{1,8} (common bean), </p>



INSECTS	HOST RANGE
	<p> <i>Phoenix dactylifera</i>^{1,8} (date-palm), <i>Piper</i>¹ (pepper), <i>Pistia stratiotes</i>^{1,8} (water lettuce), <i>Pisum sativum</i>^{1,8} (pea), <i>Poaceae</i>¹ (grasses), <i>Populus alba</i>^{1,8} (silver-leaf poplar), <i>Portulaca oleracea</i>^{1,8} (purslane), <i>Prunus domestica</i>^{1,8} (plum), <i>Prunus salicina</i>^{1,8} (Japanese plum), <i>Psidium guajava</i>^{1,8} (guava), <i>Punica granatum</i>^{1,8} (pomegranate), <i>Salvia officinalis</i>^{1,8} (common sage), <i>Sesamum indicum</i>^{1,8} (sesame), <i>Sesbania sesban</i>^{1,8} (sesban), <i>Raphanus sativus</i>^{1,8} (radish), <i>Ricinus communis</i>^{1,8} (castor bean), <i>Rosa</i>¹ (roses), <i>Saccharum officinarum</i>^{1,8} (sugarcane), <i>Solanum melongena</i>^{1,8} (aubergine), <i>Solanum tuberosum</i>^{1,8} (potato), <i>Sorghum bicolor</i>^{1,8} (sorghum), <i>Spinacia oleracea</i>^{1,8} (spinach), <i>Theobroma cacao</i>^{1,8} (cocoa), <i>Trifolium</i>¹ (clovers), <i>Trifolium alexandrinum</i>^{1,8} (Berseem clover), <i>Trifolium repens</i>^{1,8} (white clover), <i>Trigonella foenum-graecum</i>^{1,8} (fenugreek), <i>Triticum aestivum</i>^{1,8} (wheat), <i>Verbena</i>¹ (vervain), <i>Vicia faba</i>^{1,8} (broad bean), <i>Vigna angularis</i>^{1,8} (adzuki bean), <i>Vigna mungo</i>^{1,8} (black gram), <i>Vigna radiata</i>^{1,8} (mung bean), <i>Vigna unguiculata</i>^{1,8} (cowpea), <i>Viola odorata</i>^{1,8} (English violet), <i>Vitis vinifera</i>^{1,8} (grapevine), <i>Zea mays</i>^{1,8} (maize) <i>Zinnia elegans</i>^{1,8} (zinnia) </p>

Table 2: Host range of nematodes occurring in South Africa

NEMATODES	HOST RANGE
<i>Globodera rostochiensis</i> ^{1,6,7,8} [yellow potato cyst nematode]	<i>Antirrhinum majus</i> ³ (common snapdragon), <i>Avena sativa</i> ³ (oats), <i>Beta vulgaris</i> ³ (beet), <i>Brassica oleracea</i> ³ (cabbage), <i>Datura stramonium</i> ^{1,3,8} (jimsonweed), <i>Lycopersicon esculentum</i> ^{1,3,8} (tomato), <i>Lycopersicon pimpinellifolium</i> ^{1,3,8} (currant tomato), <i>Pisum sativum</i> ³ (peas), <i>Solanum aviculare</i> ^{1,3,8} (kangaroo apple), <i>Solanum cladassi</i> ³ , <i>Solanum gilo</i> ^{1,8} (gilo), <i>Solanum indicum</i> ^{1,8} , <i>Solanum marginatum</i> ^{1,8} (white-edged nightshade), <i>Solanum mauritianum</i> ^{1,8} (tree tobacco), <i>Solanum melongena</i> ^{1,3,8} (aubergine), <i>Solanum nigrum</i> ^{1,3,8} (black nightshade), <i>Solanum quitoense</i> ^{1,8} (Narangillo), <i>Solanum sarrachoides</i> ^{1,3,8} (green nightshad), <i>Solanum tuberosum</i> ^{1,3,8} (potato)
<i>Meloidogyne chitwoodi</i> ^{1,6,7,8} [columbia root-knot nematode]	<i>Allium cepa</i> ³ (onion), <i>Arachis hypogaea</i> ³ (peanut), <i>Avena sativa</i> ³ (oats), <i>Beta vulgaris</i> ³ (beet), <i>Brassica campestris</i> ³ (cole), <i>Brassica napus</i> ³ (rape), <i>Brassica rapa</i> ³ (turnip), <i>Capsicum annuum</i> ³ (pepper), <i>Chenopodium quinoa</i> ^{1,8} (quinoa), <i>Citrullus lanatus</i> ³ (watermelon), <i>Daucus carota</i> ^{1,3,8} (carrot), <i>Fragaria chiloensis</i> ³ (strawberry), <i>Gossypium hirsutum</i> ³ (cotton), <i>Helianthus annuus</i> ³ (sunflower), <i>Hordeum vulgare</i> ³ (barley), <i>Lycopersicon esculentum</i> ^{1,3,8} (tomato), <i>Medicago sativa</i> ^{1,3,8} (lucerne), <i>Phaseolus vulgaris</i> ^{1,3,8} (common bean), <i>Pisum sativum</i> ^{1,3,8} (pea), <i>Raphanus sativus</i> ³ (raddish), <i>Scorzonera hispanica</i> ^{1,8} (oyster plant), <i>Solanum melongena</i> ³ (eggplant),

NEMATODES	HOST RANGE
	<i>Solanum tuberosum</i> ^{1,3,8} (potato) <i>Sorghum bicolor</i> ³ (sorghum), <i>Triticum aestivum</i> ³ (wheat), <i>Zea mays</i> ^{1,3,8} (maize)
<i>Xiphinema americanum</i> ^{6,7,8} [American dagger nematode]	<i>Acer platanoides</i> ¹ (Norway maple), <i>Agropyron cristatum</i> ¹ (crested wheatgrass), <i>Agropyron desertorum</i> ¹ (crested wheatgrass), <i>Anethum graveolens</i> ¹ (dill), <i>Allium cepa</i> ³ (onion), <i>Allium sativum</i> ³ (garlic), <i>Avena sativa</i> ^{1,3} (oats), <i>Bambusa tuldoidea</i> ¹ (punting-pole bamboo), <i>Beta vulgaris</i> ³ (garden beet), <i>Brassica oleracea</i> ³ (broccoli), <i>Callicarpa americana</i> ¹ (American beautyberry), <i>Capsicum frutescens</i> ³ (pepper) <i>Carissa grandiflora</i> ³ (natal plum), <i>Carya illinoensis</i> ³ (pecan), <i>Chrysanthemum maximum</i> ³ (max daisy), <i>Cichorium intybus</i> ¹ (chicory), <i>Citrus</i> , ¹ <i>Citrus aurantium</i> ³ (Seville orange) <i>Citrus limon</i> ³ (lemon) <i>Citrus sinensis</i> ^{1,3} (navel orange), <i>Citrus reticulata</i> ³ (mandarin orange), <i>Citrus X paradise</i> ³ (grapefruit), <i>Cocos nucifera</i> ¹ (coconut), <i>Codiaeum variegatum</i> ¹ (croton), <i>Coffea canephora</i> ¹ (robusta coffee), <i>Cucumis melo</i> ³ (cantaloupe), <i>Cucurbita pepo</i> ¹ (ornamental gourd), <i>Cydonia oblonga</i> ¹ (quince), <i>Cydonia dactylon</i> ³ (<i>Bermuda grass</i>), <i>Cynara scolymus</i> ³ (artichoke), <i>Daucus carota</i> ³ (carrot), <i>Ficus carica</i> ^{1,3} (fig), <i>Fragaria chiloensis</i> ³ (strawberry), <i>Fragaria ananassa</i> ^{1,3} (strawberry), <i>Fragaria vesca</i> ³ (strawberry), <i>Glycine max</i> ¹ (soyabean), <i>Gossypium hirsutum</i> ^{1,3} (Bourbon cotton), <i>Juglans regia</i> ¹ (walnut), <i>Juniperus monosperma</i> ³ (cherrystone Juniper) <i>Helianthus annuus</i> ³ (sunflower) <i>Hordeum vulgare</i> ³ (barley),

NEMATODES	HOST RANGE
	<p> <i>Lactuca sativa</i>³ (lettuce) <i>Linum usitatissimum</i>¹ (flax), <i>Litchi chinensis</i>¹ (lichi), <i>Lycopersicon esculentum</i>^{1,3} (tomato), <i>Manilkara zapota</i>¹ (sapodilla), <i>Malus domestica</i>¹ (apple), <i>Malus sylvestris</i>^{1,3} (crab-apple tree), <i>Mangifera indica</i>^{1,3} (mango), <i>Medicago sativa</i>^{1,3} (lucerne), <i>Mentha piperita</i>¹ (Peppermint), <i>Mentha spicata</i>¹ (Spear mint), <i>Nerium oleander</i>¹ (oleander), <i>Nicotiana tabacum</i>¹ (tobacco), <i>Onobrychis viciifolia</i>¹ (sainfoin), <i>Oryza sativa</i>^{1,3} (rice), <i>Persea Americana</i>³ (avocado), <i>Phaseolus limensis</i>³ (lima bean), <i>Phaseolus vulgaris</i>³ (bean), <i>Picea glauca</i>¹ (white spruce), <i>Picea pungens</i>¹ (blue spruce), <i>Pinus echinata</i>¹ (shortleaf pine), <i>Pinus edulis</i>³ (nut-pine), <i>Pinus elliottii</i>¹ (slash pine), <i>Pinus resinosa</i>¹ (red pine), <i>Pinus sylvestris</i>¹ (Scots pine), <i>Pinus taeda</i>¹ (loblolly pine), <i>Pistacia vera</i>^{1,3} (pistachio), <i>Poncirus trifoliata</i>¹ (Trifoliate orange), <i>Prunus armeniaca</i>^{1,3} (apricot), <i>Prunus avium</i>^{1,3} (sweet cherry), <i>Prunus cerasus</i>³ (sour cherry), <i>Prunus domestica</i>^{1,3} (plum), <i>Prunus dulcis</i>^{1,3} (almond), <i>Prunus persica</i>^{1,3} (peach), <i>Prunus salicina</i>¹ (Japanese plum), <i>Psidium guajava</i>^{1,3} (guava), <i>Punica granatum</i>³ (pomegranate), <i>Pyrus communis</i>³ (pear), <i>Rubus idaeus</i>^{1,3} (garden raspberry), <i>Rubus longanobaccus</i>³ (raspberry), <i>Saccharum officinarum</i>^{1,3} (sugarcane), <i>Shorea robusta</i>¹ (sal), <i>Solanum tuberosum</i>^{1,3} (potato), <i>Sorghum bicolor</i>^{1,3} (sorghum), <i>Sorghum halepense</i>³ (Johnson grass), <i>Tectona grandis</i>¹ (teak), </p>

NEMATODES	HOST RANGE
	<i>Trifolium pratense</i> ¹ (purple clover), <i>Trifolium repens</i> ^{1,3} (white clover), <i>Triticum aestivum</i> ³ (wheat), <i>Vaccinium angustifolium</i> ¹ (Lowbush blueberry), <i>Vaccinium corymbosum</i> ^{1,3} (blueberry), <i>Vaccinium myrtillus</i> ¹ (blueberry), <i>Vitis labrusca</i> ¹ (fox grape), <i>Vitis rupestris</i> ¹ (sand-grape), <i>Vitis vinifera</i> ^{1,3} (grapevine), <i>Zea mays</i> ^{1,3} (maize)

Table 3: Host range of fungi occurring in South Africa

FUNGI	HOST RANGE
<i>Melampsora medusae</i> ^{1,2,8} [poplar leaf rust]	<i>Larix</i> (larches), ¹ <i>Pinus</i> (pines), ¹ <i>Populus balsamifera</i> ^{1,8} (balm of Gilead), <i>Populus balsamifera subsp. trichocarpa</i> ^{1,8} (black cottonwood), <i>Populus deltoides</i> ^{1,2,8} (poplar) <i>Pseudotsuga menziesii</i> ^{1,8} (Douglas-fir)
<i>Synchytrium endobioticum</i> ^{1,2,8} [potato wart disease]	<i>Solanum tuberosum</i> ^{1,2,8} (potato)
<i>Tilletia indica</i> ^{1,2,8} [Karnal bunt of wheat]	<i>Triticale</i> , ¹ <i>Triticum</i> (wheat), ^{1,8} <i>Triticum aestivum</i> (wheat) ^{1,8}

Table 4: Host range of bacteria occurring in South Africa

BACTERIA	HOST RANGE
<i>Pseudomonas solanacearum</i> ^{1,4,8} [bacterial wilt of potato]	<i>Annona cherimola</i> ^{1,8} (cherimoya), <i>Anthurium</i> , ¹ <i>Amaranthus</i> spp. ⁴ <i>Arachis hypogaea</i> ^{1,4,8} (groundnut), <i>Bidens</i> spp. ⁴ , <i>Capsicum annuum</i> ^{1,4,8} (bell pepper), <i>Casuarina cunninghamiana</i> ^{1,8} (Australian beefwood), <i>Casuarina equisetifolia</i> ^{1,8} (casuarina), <i>Casuarina glauca</i> ^{1,8} (scaly oak (Australia)),



BACTERIA	HOST RANGE
	<i>Colocasia esculenta</i> ^{1,8} (taro), <i>Curcuma longa</i> ^{1,8} (turmeric), <i>Datura</i> spp. ⁴ , <i>Gossypium</i> ^{1,8} (cotton), <i>Helianthus</i> spp. ⁴ , <i>Heliconia</i> ¹ , <i>Hevea brasiliensis</i> ^{1,8} (rubber), <i>Ipomoea batatas</i> ^{1,8} (sweet potato), <i>Lycopersicon esculentum</i> ^{1,4,8} (tomato), <i>Manihot esculenta</i> ^{1,8} (cassava), <i>Musa</i> ¹ (banana), <i>Musa x paradisiaca</i> ^{1,8} (plantain), <i>Nicandra</i> spp. ⁴ , <i>Nicotiana tabacum</i> ^{1,4,8} (tobacco), <i>Pelargonium</i> ¹ (pelargoniums), <i>Physalis</i> spp. ⁴ , <i>Ricinus communis</i> ^{1,4,8} (castor bean), <i>Solanum melongena</i> ^{14,8} (aubergine), <i>Solanum nigrum</i> ⁴ , <i>Solanum tuberosum</i> ^{1,4,8} (potato), <i>Tectona grandis</i> ^{1,8} (teak), <i>Zingiber officinale</i> ^{1,8} (ginger)
<i>Pseudomonas solanacearum</i> race 1 ^{1,4,8} [bacterial wilt of solanaceous crops]	<i>Arachis hypogaea</i> ^{1,8} (groundnut), <i>Capsicum annuum</i> ^{1,8} (bell pepper), <i>Lycopersicon esculentum</i> (tomato), <i>Musa</i> ¹ (banana), <i>Nicotiana tabacum</i> ^{1,8} (tobacco), <i>Solanum melongena</i> ^{1,8} (aubergine), <i>Solanum tuberosum</i> ^{1,8} (potato)
<i>Pseudomonas solanacearum</i> race 3 ^{1,4,8} [brown rot of potato]	<i>Lycopersicon esculentum</i> ^{1,8} (tomato), <i>Solanum tuberosum</i> ^{1,8} (potato)

Table 5: Host range of viruses occurring in South Africa

VIRUS	HOST RANGE
Cherry rasp leaf virus ^{1,4,8}	<i>Malus</i> , ⁴ <i>Malus domestica</i> ^{1,8} (apple), <i>Plantago</i> , ⁴ <i>Prunus</i> , ⁴ <i>Prunus avium</i> ^{1,8} (sweet cherry), <i>Prunus cerasus</i> ^{1,8} (sour cherry), <i>Prunus mahaleb</i> ^{1,8} (mahaleb cherry), <i>Prunus persica</i> ^{1,8} (peach) <i>Rubus idaeus</i> ^{1,8} (raspberry) <i>Taraxacum</i> , ⁴
Pepper mild tigré virus ⁴	<i>Capsicum</i> ^{1,4} (peppers), <i>Capsicum annuum</i> ¹ (bell pepper), <i>Capsicum frutescens</i> ¹ (chilli), <i>Lycopersicon esculentum</i> ¹ (tomato), <i>Physalis angulata</i> ¹ (cutleaf groundcherry)
Strawberry vein banding virus ⁴	<i>Fragaria</i> ¹ (strawberry), <i>Fragaria ananassa</i> ¹ (strawberry), <i>Fragaria vesca</i> ¹ (wild strawberry)
Tomato spotted wilt virus ^{1,4,8}	<i>Ageratum conyzoides</i> ^{1,4,8} (billy goat weed), <i>Alstroemeria</i> ^{1,4} (Inca lily), <i>Ananas comosus</i> ^{1,4,8} (pineapple), <i>Anemone</i> ^{1,4} (windflower), <i>Anemone coronaria</i> ^{1,4,8} (Poppy anemone), <i>Apium graveolens</i> ^{1,4,8} (celery), <i>Arachis hypogaea</i> ^{1,4,8} (groundnut), <i>Aster</i> , ^{1,4} <i>Begonia</i> , ^{1,4} <i>Benincasa hispida</i> ^{1,4,8} (wax gourd), <i>Bidens pilosa</i> ^{1,4,8} (blackjack), <i>Calceolaria</i> ^{1,4} (pouch flower), <i>Calendula officinalis</i> ^{1,4,8} (Pot marigold), <i>Callistephus</i> ^{1,4} , <i>Callistephus chinensis</i> ^{1,4,8} (China aster), <i>Canavalia gladiata</i> ^{1,4,8} (horse bean), <i>Canna indica</i> ^{1,4,8} (Queensland arrowroot), <i>Capsicum</i> ^{1,4} (peppers), <i>Capsicum annuum</i> ^{1,4,8} (bell pepper), <i>Carica papaya</i> ^{1,4,8} (papaw), <i>Catharanthus roseus</i> ^{1,4,8} (Pink periwinkle), <i>Chrysanthemum morifolium</i> ^{1,4,8} (chrysanthemum (florists')), <i>Cicer arietinum</i> ^{1,4,8} (chickpea), <i>Cichorium</i> ^{1,4} (chicory),

VIRUS	HOST RANGE
	<p> <i>Cichorium endivia</i>^{1,4,8} (endives), <i>Citrullus lanatus</i>^{1,4,8} (watermelon), <i>Coleus</i>,^{1,4} <i>Columnea</i>,^{1,4} <i>Columnea hirta</i>,^{1,4} <i>Crotalaria juncea</i>^{1,4,8} (sunn hemp), <i>Cucumis sativus</i>^{1,4,8} (cucumber), <i>Cucurbita pepo</i>^{1,4,8} (ornamental gourd), <i>Cyclamen</i>,^{1,4} <i>Cynara cardunculus</i> L. var. <i>scolymus</i>^{1,4} (globe artichoke), <i>Cyphomandra betacea</i>^{1,4,8} (tree tomato), <i>Dahlia</i>,^{1,4} <i>Dieffenbachia</i>^{1,4} (dumbcanes), <i>Eustoma grandiflorum</i>,^{1,4,8} <i>Ficus elastica</i>^{1,4,8} (rubber plant), <i>Ficus pumila</i>^{1,4,8} (creeping fig), <i>Galinsoga parviflora</i>^{1,4,8} (gallant soldier), <i>Gerbera</i>^{1,4} (Barbeton daisy), <i>Gerbera jamesonii</i>^{1,4,8} (African daisy), <i>Glycine max</i>^{1,4,8} (soyabean), <i>Gossypium</i>^{1,4} (cotton), <i>Helianthus annuus</i>^{1,4,8} (sunflower), <i>Impatiens</i>^{1,4} (balsam), <i>Impatiens walleriana</i>^{1,4,8} (Busy-lizzy), <i>Jacquemontia tamnifolia</i>^{1,4,8} (Smallflower morningglory), <i>Kalanchoe</i>,^{1,4} <i>Lactuca sativa</i>^{1,4,8} (lettuce), <i>Lathyrus sativus</i>^{1,4,8} (grasspea), <i>Lens culinaris</i> ssp^{1,4,8}. <i>culinaris</i> (lentil), <i>Lupinus</i>^{1,4} (lupins), <i>Lycopersicon esculentum</i>^{1,4,8} (tomato), <i>Mentha piperita</i>^{1,4,8} (Peppermint), <i>Mirabilis jalapa</i>^{1,4,8} (marvel of Peru), <i>Nicandra physalodes</i>^{1,4,8} (apple of Peru), <i>Nicotiana rustica</i>^{1,4,8} (wild tobacco), <i>Nicotiana tabacum</i>^{1,4,8} (tobacco), <i>Ocimum</i>,^{1,4} <i>Ocimum basilicum</i>^{1,4,8} (basil), <i>Oncidium</i>^{1,4} (dancing-lady orchid), <i>Pelargonium</i>^{1,4} (pelargoniums), <i>Pericallis cruenta</i>^{1,4,8} (common cineraria), <i>Petunia</i>,^{1,4} <i>Phalaenopsis</i>,^{1,4} <i>Phaseolu</i>^{1,4} (beans), </p>



VIRUS	HOST RANGE
	<p> <i>Phaseolus vulgaris</i>^{1,4,8} (common bean), <i>Physalis peruviana</i>^{1,4,8} (cape gooseberry), <i>Pisum sativum</i>^{1,4,8} (pea), <i>Saintpaulia ionantha</i>^{1,4,8} (African violet), <i>Salvia officinalis</i>^{1,4,8} (common sage), <i>Sechium edule</i>^{1,4,8} (chayote), <i>Sinningia</i>^{1,4}, <i>Sinningia speciosa</i>^{1,4,8} (gloxinia), <i>Solanum melongena</i>^{14,8} (aubergine), <i>Solanum tuberosum</i>^{1,4,8} (potato), <i>Stephanotis floribunda</i>^{1,4,8} (madagascar stephanotis), <i>Tagetes</i>^{1,4} (marigold), <i>Tephrosia purpurea</i>^{1,4,8} (purple tephrosia), <i>Valeriana officinalis</i>^{1,4,8} (common valerian), <i>Valerianella locusta</i>^{1,4,8} (common cornsalad), <i>Vicia faba</i>^{1,4,8} (broad bean), <i>Vigna mungo</i>^{1,4,8} (black gram), <i>Vigna radiata</i>^{1,4,8} (mung bean), <i>Vigna unguiculata</i>^{14,8} (cowpea), <i>Vitis vinifera</i>^{1,4,8} (grapevine), <i>Zantedeschia aethiopica</i>^{1,4,8} (calla lily), <i>Zinnia</i>^{1,4}, <i>Zinnia elegans</i>^{1,4,8} (zinnia) </p>
<p> non-European isolates of potato viruses A, M, S, V, X and Y (including Yo, YN and YC) and Potato leafroll virus^{1,4} </p>	<p> <i>Solanum tuberosum</i>¹(potato), </p>

ANNEX II

PART A

HARMFUL ORGANISMS WHOSE INTRODUCTION INTO, AND SPREAD WITHIN, ALL MEMBER STATES SHALL BE BANNED IF THEY ARE PRESENT ON CERTAIN PLANTS OR PLANT PRODUCTS

Section I

HARMFUL ORGANISMS NOT KNOWN TO OCCUR IN THE COMMUNITY AND RELEVANT FOR THE ENTIRE COMMUNITY

(a) Insects, mites and nematodes, at all stages of their development

Species	Subject of contamination
1. <i>Aculops fuchsiae</i> Keifer ^{1;8}	Plants of <i>Fuchsia</i> L., intended for planting, other than seeds
2. <i>Aleurocantus</i> spp. ^{1;8} - <i>Aleurocantus spiniferus</i> ^{1;8} (orange spiny whitefly) - <i>Aleurocantus woglumi</i> ^{1;8} (citrus black fly)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
3. <i>Anthonomus bisignifer</i> (Schenkling) ^{1;8}	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
4. <i>Anthonomus signatus</i> (Say) ^{1;8}	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
5. <i>Aonidiella citrina</i> Coquillett ^{1;9;13}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
6. <i>Aphelenchoides besseyi</i> Christie (*) ^{1;7;8} (rice leaf nematode)	Seeds of <i>Oryza</i> spp.
7. <i>Aschistonyx eppoi</i> Inouye ¹⁰	Plants of <i>Juniperus</i> L., other than fruit and seeds, originating in non-European countries



Species	Subject of contamination
8. <i>Bursaphelenchus xylophilus</i> (Steiner and Buhere) Nickle <i>et al.</i> ^{6;7;8}	Plants of <i>Abies</i> Mill., <i>Cedrus</i> Trew, <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Pseudotsuga</i> Carr. and <i>Tsuga</i> Carr., other than fruit and seeds, and wood of conifers (<i>Coniferales</i>), originating in non-European countries
9. <i>Carposina niponensis</i> (<i>sasakii</i>) Walsingham ^{1;8}	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., other than seeds, originating in non-European countries
10. <i>Diaphorina citri</i> Kuway ^{1;8}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, and <i>Murraya</i> König, other than fruit and seeds
11. <i>Enarmonia</i> (<i>Grapholita</i>) <i>packardi</i> (Zeller) ^{1;8}	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., other than seeds, originating in non-European countries
12. <i>Enarmonia</i> (<i>Grapholita</i>) <i>prunivora</i> Walsh ¹	Plants of <i>Crataegus</i> L., <i>Malus</i> Mill., <i>Photinia</i> Ldl., <i>Prunus</i> L. and <i>Rosa</i> L., intended for planting, other than seeds, and fruit of <i>Malus</i> Mill. and <i>Prunus</i> L., originating in non-European countries
13. <i>Eotetranychus lewisi</i> McGregor ^{13;14}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
15. <i>Grapholita inopinata</i> Heinrich ¹	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., other than seeds, originating in non-European countries
16. <i>Hishomonus phycitis</i> ^{1;11}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
17. <i>Leucaspis</i> (<i>Lopholeucaspis</i>) <i>japonica</i> Ckll. ^{1;8}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
18. <i>Listronotus bonariensis</i> (Kuschel) ^{1;8}	Seeds of <i>Cruciferae</i> , <i>Gramineae</i> and <i>Trifolium</i> spp., originating in Argentina, Australia, Bolivia, Chile, New Zealand and Uruguay
19. <i>Margarodes</i> , non-European species, such as: (a) <i>Margarodes vitis</i> (Phillipi) ^{1;8} (b) <i>Margarodes vredendalensis</i> de Klerk ^{1;8} (ground pearls) (c) <i>Margarodes prieskaensis</i> Jakubski ^{1;8} (ground pearls)	Plants of <i>Vitis</i> L., other than fruit and seeds



Species	Subject of contamination
20. <i>Numonia (Acrobasis) pyrivorella</i> (Matsumura) ^{1;8}	Plants of <i>Pyrus</i> L., other than seeds, originating in non-European countries
21. <i>Oligonychus perditus</i> Pritchard and Baker ^{1;8}	Plants of <i>Juniperus</i> L., other than fruit and seeds, originating in non-European countries
22. <i>Pissodes</i> spp. (non-European) - <i>Pissodes nemorensis</i> ^{1;8} (northern pine weevil) - <i>Pissodes strobe</i> ^{1;8} - <i>Pissodes terminalis</i> ^{1;8}	Plants of conifers (<i>Coniferales</i>), other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, and isolated bark of conifers (<i>Coniferales</i>), originating in non-European countries
23. <i>Radopholus citrophilus</i> Huetzel Dickson and Kaplan^{8;15} Only <i>R. similis</i> are recognised and not <i>R. citrophilus</i> or the subspecies <i>R. similis similis</i> en <i>R. similis citrophilus</i> . The following studies showed that <i>R. citrophilus</i> is a synonym for <i>R. similis</i> 1998, Valette <i>et al.</i> SEM studies 1999, Elbadri <i>et al.</i> morphological studies 2002 Elbadri <i>et al.</i> molecular studies 2003, Ryss	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds, and Plants of <i>Araceae</i> , <i>Marantaceae</i> , <i>Musaceae</i> , <i>Persea</i> spp., <i>Strelitziaceae</i> , rooted or with growing medium attached or associated
24. <i>Saissetia nigra</i> (Nietm.)^{1;9;13} (olive scale)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
25. <i>Scirtothrips aurantii</i> Faure^{1;8;1} (South African citrus thrips)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds
26. <i>Scirtothrips dorsalis</i> Hood ^{1;12;13}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
27. <i>Scirtothrips citri</i> (Moultex) ^{1;8;13}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds

Species	Subject of contamination
28. <i>Scolytidae</i> spp. (non-European) - None of the species in this insect family listed in the EPPO A1 and A2 lists of pests recommended for regulation as quarantine pests occurs in South Africa	Plants of conifers (<i>Coniferales</i>), over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, and isolated bark of conifers (<i>Coniferales</i>), originating in non-European countries
29. <i>Tachypterellus (Anthonomus) quadrigibbus</i> Say ^{1;8}	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., other than seeds, originating in non-European countries
30. <i>Toxoptera citricida</i> Kirk. ^{1;8;13} (Black citrus aphid)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
31. <i>Trioza erytreae</i> Del Guercio ^{1;8;13} (African citrus psyllid)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids and <i>Clausena</i> Burm. f., other than fruit and seeds
32. <i>Unaspis citri</i> Comstock ^{1;8;13}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds

(*) *Aphelenchoides besseyi* Christie is not present on *Oryza* spp. in the Community

(b) Bacteria

Species	Subject of contamination
1. Citrus greening bacterium (citrus huanglongbing (greening) disease) Two forms occur: a heat-tolerant (Asian) form and a heat-sensitive (African) form. Heat-tolerant form (" <i>Liberobacter asiaticum</i> ") ^{1;4;8;13} Heat-sensitive form ("<i>Liberobacter africanum</i>") ^{1;4;8;13}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds

Species	Subject of contamination
- Pest free areas are regulated by the Agricultural Pest Act 36 of 1983	
2. Citrus variegated chlorosis ^{1;4;8} (<i>Xylella fastidiosa</i> [Wells et al., 1987])	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
3. <i>Erwinia stewartii</i> (Smith) Dye ^{1;4;8}	Seeds of <i>Zea mays</i> L.
4. <i>Xanthomonas campestris</i> (all strains pathogenic to Citrus) ^{1;4;8}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds
5. <i>Xanthomonas campestris</i> pv. <i>oryzae</i> (Ishiyama) Dye ^{1;4;8} and <i>Xanthomonas campestris</i> pv. <i>oryzicola</i> (Fang. et al.) Dye ^{1;4;8}	Seeds of <i>Oryza</i> spp.

(c) Fungi

Species	Subject of contamination
1. <i>Alternaria alternata</i> (Fr.) Keissler^{1;2} (non- European pathogenic isolates) (alternaria leaf spot)	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill. And <i>Pyrus</i> L. intended for planting, other than seeds, originating in non-European countries
1.1. <i>Anisogramma anomala</i> (Peck) E. Müller ^{1;2;8}	Plants of <i>Corylus</i> L., intended for planting, other than seeds, originating in Canada and the United States of America
2. <i>Apiosporina morbosa</i> (Schwein.) v. Arx ^{1;2;8}	Plants of <i>Prunus</i> L. intended for planting, other than seeds
3. <i>Atropellis</i> spp. - <i>Atropellis pinicola</i> Zeller & Goodd. 1930 ^{1;2;8} - <i>Atropellis piniphila</i> (Weir) M.L. Lohman & E.K. Cash 1940 ^{1;2;8}	Plants of <i>Pinus</i> L., other than fruit and seeds, isolated bark and wood of <i>Pinus</i> L.



Species	Subject of contamination
4. <i>Ceratocystis coerulescens</i> (Münch) Bakshi ²	Plants of <i>Acer saccharum</i> Marsh., other than fruit and seeds, originating in the USA and Canada, wood of <i>Acer saccharum</i> Marsh., including wood which has not kept its natural round surface, originating in the USA and Canada North
5. <i>Cercoseptoria pini-densiflorae</i> (Hori and Nambu) Deighton ^{1;2} [<i>Mycosphaerella gibsonii</i> H.C. Evans 1984] (needle blight of pine)	Plants of <i>Pinus</i> L., other than fruit and seeds, and wood of <i>Pinus</i> L.
6. <i>Cercospora angolensis</i> Carv. and Mendes ^{1;2;8}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds
7. <i>Ciborinia camelliae</i> Kohn ^{1;2;8}	Plants of <i>Camelia</i> L., intended for planting, other than seeds, originating in non-European countries
8. <i>Diaporthe vaccinii</i> Shaer ^{1;2;8}	Plants of <i>Vaccinium</i> spp., intended for planting, other than seeds
9. <i>Elsinoë</i> spp. Bitanc. and Jenk. Mendes [`] - <i>Elsinoë australis</i> Bitanc. & Jenkins ^{1;2} - <i>Elsinoë fawcettii</i> Bitanc. & Jenkins ^{1;2} (citrus scab)	Plants of <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds and plants of <i>Citrus</i> L. and their hybrids, other than seeds and other than fruits, except fruits of <i>Citrus reticulata</i> Blanco and of <i>Citrus sinensis</i> (L.) Osbeck originating in South America
10. <i>Fusarium oxysporum</i> f. sp. <i>albedinis</i> (Kilian and Maire) Gordon ^{1;2;8}	Plants of <i>Phoenix</i> spp., other than fruit and seeds
11. <i>Guignardia citricarpa</i> Kiely (all strains pathogenic to Citrus) ^{1;2;8} (citrus black spot) - <i>Guignardia citricarpa</i> does occur in certain citrus production areas. - Pest free areas are regulated by the Agricultural Pest Act 36 of 1983	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds



Species	Subject of contamination
12. <i>Guignardia piricola</i> (Nosa) Yamamoto ^{1;2}	Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., other than seeds, originating in non-European countries
13. <i>Puccinia pittieriana</i> Hennings ^{1;2;8}	Plants of <i>Solanaceae</i> , other than fruit and seeds
14. <i>Scirrhia acicola</i> (Dearn.) Siggers ^{1;2}	Plants of <i>Pinus</i> L., other than fruit and seeds
15. <i>Venturia nashicola</i> Tanaka and Yamamoto^{1;2} [<i>Venturia pyrina</i> Aderhold ("pirina")] (black spot of pear)	Plants of <i>Pyrus</i> L., intended for planting, other than seeds, originating in non-European countries

(d) Virus and virus-like organisms

Species	Subject of contamination
1. Beet curly top virus (non-European isolates) ^{1;4}	Plants of <i>Beta vulgaris</i> L., intended for planting, other than seeds
2. Black raspberry latent virus^{1;4} [Tobacco streak virus]	Plants of <i>Rubus</i> L., intended for planting
3. Blight and blight-like^{1;4;16} [Citrus blight disease]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
4. Cadang-Cadang viroid ^{1;4;8} [Coconut cadang-cadang viroid]	Plants of <i>Palmae</i> , intended for planting, other than seeds, originating in non-European countries
5. Cherry leafroll virus ^{1;4} (*)	Plants of <i>Rubus</i> L., intended for planting
6. Citrus mosaic virus ^{1;4;8} [Citrus mosaic badnavirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
7. Citrus tristeza virus (non-European isolates)^{1;4;8} [Citrus tristeza closterovirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
8. Leprosis^{1;4;8} [Citrus leprosis rhabdovirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf. and their hybrids, other than fruit and seeds



Species	Subject of contamination
<p>9. Little cherry pathogen (non-European isolates) ^{1;17} [Little cherry virus]</p> <p>A virus-like pathogen thus probably causes little cherry disease.</p>	<p>Plants of <i>Prunus cerasus</i> L., <i>Prunus avium</i> L., <i>Prunus incisa</i> Thunb., <i>Prunus sargentii</i> Rehd., <i>Prunus serrula</i> Franch., <i>Prunus serrulata</i> Lindl., <i>Prunus speciosa</i> (Koidz.) Ingram, <i>Prunus subhirtella</i> Miq., <i>Prunus yedoensis</i> Matsum., and hybrids and cultivars thereof, intended for planting, other than seeds</p>
<p>10. Naturally spreading psorosis ^{1;4;18} [Citrus ringspot virus]</p> <p>EU Directive 77/93 lists "naturally spreading psorosis" as of quarantine concern for the EU. Though no clearly characterized agent has yet been identified, it is nevertheless clear that at least two virus-like agents are independently involved in causing two distinct diseases which have been called psorosis.</p> <p>The first is psorosis A, true psorosis or classical psorosis, identified by leaf flecking symptoms when grafted onto suitable citrus indicators and by the fact that it is not mechanically transmitted (in the majority of isolates).</p> <p>The second is psorosis B, also called citrus ringspot, which is associated with distinctive virus particles, and is mechanically transmitted and can therefore be identified by its reactions on herbaceous indicators.</p> <p>The disease which spreads naturally in South America is the latter, so this data sheet concerns citrus ringspot 'virus' and the quarantine significance of its natural transmission under certain circumstances</p>	<p>Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds</p>
<p>11. Palm lethal yellowing mycoplasm ^{1;4;19} [palm lethal yellowing phytoplasma]</p>	<p>Plants of <i>Palmae</i>, intended for planting, other than seeds, originating in non-European countries</p>



Species	Subject of contamination
12. Prunus necrotic ringspot virus ^{1;4(**)} [Prunus necrotic ringspot ilarvirus]	Plants of <i>Rubus</i> L., intended for planting
13. Satsuma dwarf virus ^{1;4;8} [Satsuma dwarf nepovirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
14. Tatter leaf virus ^{1;4;8} [Apple stem grooving virus] [Citrus tatter leaf capillovirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
15. Witches' broom (MLO) ^{1;20} [Candidatus Phytoplasma aurantifolia Zreik et al 1995] (Lime witches' broom phytoplasma)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds

(*) Cherry leaf roll virus is not present in *Rubus* L. in the Community.

(**) Prunus necrotic ringspot virus is not present in *Rubus* L. in the Community.

Section II

HARMFUL ORGANISMS KNOWN TO OCCUR IN THE COMMUNITY AND RELEVANT FOR THE ENTIRE COMMUNITY

(a) Insects, mites and nematodes, at all stages of their development

Species	Subject of contamination
1. <i>Aphelenchoides besseyi</i> Christie^{1;7;8} (rice leaf nematode)	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
2. <i>Daktulosphaira vitifoliae</i> (Fitch)¹ (grapevine phylloxera)	Plants of <i>Vitis</i> L., other than fruit and seeds
3. <i>Ditylenchus destructor</i> Thorne^{1;6;7} (potato tuber nematode)	Flower bulbs and corms of <i>Crocus</i> L., miniature cultivars and their hybrids of the genus <i>Gladiolus</i> Tourn. ex L., such as <i>Gladiolus callianthus</i> Marais, <i>Gladiolus colvillei</i> Sweet, <i>Gladiolus nanus</i> hort., <i>Gladiolus ramosus</i> hort., <i>Gladiolus tubergenii</i> hort., <i>Hyacinthus</i> L., <i>Iris</i> L., <i>Trigridia</i> Juss, <i>Tulipa</i> L., intended for planting, and potato tubers (<i>Solanum tuberosum</i> L.), intended for planting
4. <i>Ditylenchus dipsaci</i> (Kühn) Filipjev^{1;6;7;8} (stem and bulb nematode)	Seeds and bulbs of <i>Allium ascalonicum</i> L., <i>Allium cepa</i> L. and <i>Allium schoenoprasum</i> L., intended for planting and plants of <i>Allium porrum</i> L., intended for planting, bulbs and corms of <i>Camassia</i> Lindl., <i>Chionodoxa</i> Boiss., <i>Crocus flavus</i> Weston 'Golden Yellow', <i>Galanthus</i> L., <i>Galtonia candicans</i> (Baker) Decne, <i>Hyacinthus</i> L., <i>Ismene</i> Herbert, <i>Muscari</i> Miller, <i>Narcissus</i> L., <i>Ornithogalum</i> L., <i>Puschkinia</i> Adams, <i>Scilla</i> L., <i>Tulipa</i> L., intended for planting, and seeds of <i>Medicago sativa</i> L.
5. <i>Circulifer haematoceps</i>^{1;26} [<i>Neoaliturus haematoceps</i> (Mulsant & Rey)]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
6. <i>Circulifer tenellus</i>^{1;26} [<i>Neoaliturus tenellus</i> (Baker)] (beet leafhopper)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
6.1. <i>Eutetranychus orientalis</i> Klein^{1;8;13;14} (Citrus brown mite)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf. Raf. and their hybrids, other than fruit and seeds



Species	Subject of contamination
7. <i>Radopholus similis</i> (Cobb) Thorne ^{1;6;7;8;15} (burrowing nematode)	Plants of <i>Araceae</i> , <i>Marantaceae</i> , <i>Musaceae</i> , <i>Persea</i> spp., <i>Strelitziaceae</i> , rooted or with growing medium attached or associated
8. <i>Liriomyza huidobrensis</i> (Blanchard) ¹ (serpentine leafminer)	Cut flowers, leafy vegetables of <i>Apium graveolens</i> L. and plants of herbaceous species, intended for planting, other than: — bulbs, — corms, — plants of the family Gramineae, — rhizomes, — seeds
9. <i>Liriomyza trifolii</i> (Burgess) ^{1;8} (American serpentine leafminer)	Cut flowers, leafy vegetables of <i>Apium graveolens</i> L. and plants of herbaceous species, intended for planting, other than: — bulbs, — corms, — plants of the family Gramineae, — rhizomes, — seeds

(b) **Bacteria**

Species	Subject of contamination
1. <i>Clavibacter michiganensis</i> spp. <i>insidiosus</i> (McCulloch) Davis et al. ^{1;4;8} (bacterial lucerne wilt)	Seeds of <i>Medicago sativa</i> L.
2. <i>Clavibacter michiganensis</i> spp. <i>michiganensis</i> (Smith) Davis et al. ^{1;4;8} (bacterial canker of tomato)	Plants of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw., intended for planting
3. <i>Erwinia amylovora</i> (Burr.) Winsl. et al. ^{1;4;8}	Plants of <i>Amelanchier</i> Med., <i>Chaenomeles</i> Lindl., <i>Cotoneaster</i> Ehrh., <i>Crataegus</i> L., <i>Cydonia</i> Mill., <i>Eriobotrya</i> Lindl., <i>Malus</i> Mill., <i>Mespilus</i> L., <i>Photinia davidiana</i> (Dcne.) Cardot, <i>Pyracantha</i> Roem., <i>Pyrus</i> L. and <i>Sorbus</i> L., intended for planting, other than seeds



Species	Subject of contamination
4. <i>Erwinia chrysanthemi</i> pv. <i>dianthicola</i> (Hellmers) Dickey ^{1;4;8} [<i>Pectobacterium chrysanthemi</i> (Burkholder et al. 1953) Brennor et al. 1973 emend Haub]	Plants of <i>Dianthus</i> L., intended for planting, other than seeds
5. <i>Pseudomonas caryophylli</i> (Burkholder) Starr and Burkholder ^{1;4;8}	Plants of <i>Dianthus</i> L., intended for planting, other than seeds
6. <i>Pseudomonas syringae</i> pv. <i>persicae</i> (Prunier et al.) Young et al. ^{1;8}	Plants of <i>Prunus persica</i> (L.) Batsch and <i>Prunus persica</i> var. <i>nectarina</i> (Ait.) Maxim, intended for planting, other than seeds
7. <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> (Smith) Dye ^{1;4;8} [<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> (Smith 1897) Vauterin et al. 1995] (bean blight)	Seeds of <i>Phaseolus</i> L.
8. <i>Xanthomonas campestris</i> pv. <i>pruni</i> (Smith) Dye ^{1;8} [<i>Xanthomonas arboricola</i> pv. <i>pruni</i> (Smith) Vauterin, Hoste, Kersters & Swings] (bacterial canker of stone fruit)	Plants of <i>Prunus</i> L., intended for planting, other than seeds
9. <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (Doidge) Dye ^{1;4;8} (bacterial spot of tomato and pepper)	Plants of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw. and <i>Capsicum</i> spp., intended for planting
10. <i>Xanthomonas fragariae</i> Kennedy and King ^{1;8}	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
11. <i>Xylophilus ampelinus</i> (Panagopoulos) Willems et al. ^{1;8} (canker of grapevine)	Plants of <i>Vitis</i> L., other than fruit and seeds

(c) Fungi

Species	Subject of contamination
1. <i>Ceratocystis fimbriata</i> f. sp. <i>platani</i> Walter ^{1;2;8}	Plants of <i>Platanus</i> L., intended for planting, other than seeds, and wood of <i>Platanus</i> L., including wood which has not kept its natural round surface
2. <i>Colletotrichum acutatum</i> Simmonds ^{1;2} (black spot of strawberry)	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
3. <i>Cryphonectria parasitica</i> (Murrill) Barr ^{1;2;8}	Plants of <i>Castanea</i> Mill and <i>Quercus</i> L., intended for planting, other than seeds
4. <i>Didymella ligulicola</i> (Baker, Dimock and Davis) v. Arx ² (ray blight of chrysanthemum)	Plants of <i>Dendranthema</i> (DC.) Des Moul., intended for planting, other than seeds
5. <i>Phialophora cinerescens</i> (Wollenweber) van Beyma ^{1;2;8}	Plants of <i>Dianthus</i> L., intended for planting, other than seeds
6. <i>Phoma tracheiphila</i> (Petri) Kanchaveli and Gikashvili ^{1;2;8}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than seeds
7. <i>Phytophthora fragariae</i> Hickmann var. <i>Fragariae</i> ^{1;2;8}	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
8. <i>Plasmopara halstedii</i> (Farlow) Berl. and de Toni ^{1;21} (downy mildew of sunflower)	Seeds of <i>Helianthus annuus</i> L.
9. <i>Puccinia horiana</i> Hennings ^{1;2;8} (white rust of chrysanthemum)	Plants of <i>Dendranthema</i> (DC.) Des Moul., intended for planting, other than seeds
10. <i>Scirrhia pini</i> Funk and Parker ^{1;2} [<i>Mycosphaerella pini</i> Rostr. 1957] (red-band needle blight)	Plants of <i>Pinus</i> L., intended for planting, other than seeds
11. <i>Verticillium albo-atrum</i> Reinke and Berthold ^{1;2;8} [<i>Verticillium albo-atrum</i> hop strains Reinke & Berthold] (verticillium wilt of hop)	Plants of <i>Humulus lupulus</i> L., intended for planting, other than seeds

Species	Subject of contamination
12. <i>Verticillium dahliae</i> Klebahn ^{1;2;8} [<i>Verticillium dahliae</i> hop strains Klebahn] (verticillium wilt of hop)	Plants of <i>Humulus lupulus</i> L., intended for planting, other than seeds

(d) Viruses and virus-like organisms

Species	Subject of contamination
1. Arabis mosaic virus ⁴	Plants of <i>Fragaria</i> L. and <i>Rubus</i> L., intended for planting, other than seeds
2. Beet leaf curl virus ^{1;4;8}	Plants of <i>Beta vulgaris</i> L., intended for planting, other than seeds
3. Chrysanthemum stunt viroid ^{1;4;8}	Plants of <i>Dendranthema</i> (DC.) Des Moul., intended for planting, other than seeds
4. Citrus tristeza virus (European isolates) ^{1;4;8} [Citrus tristeza closterovirus]	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
5. Citrus vein enation woody gall ^{1;4;22} [Citrus vein enation disease] (citrus woody gall)	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
6. Grapevine flavescence dorée MLO ^{1;4;23}	Plants of <i>Vitis</i> L., other than fruit and seeds
7. Plum pox virus ^{1,4,8}	Plants of <i>Prunus</i> L., intended for planting, other than seeds
8. Potato stolbur mycoplasma ²⁴	Plants of <i>Solanaceae</i> , intended for planting, other than seeds
9. Raspberry ringspot virus ^{1;4;25}	Plants of <i>Fragaria</i> L. and <i>Rubus</i> L., intended for planting, other than seeds
10. <i>Spiroplasma citri</i> Saglio <i>et al.</i> ^{1;4;26}	Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds
11. Strawberry crinkle virus ^{1;4;27} [Strawberry crinkle cytorhabdovirus]	Plants of <i>Fragaria</i> L., intended for planting, other than seeds
12. Strawberry latent ringspot virus ^{1;4;28}	Plants of <i>Fragaria</i> L. and <i>Rubus</i> L., intended for planting, other than seeds
13. Strawberry mild yellow edge virus ^{1;4;29}	Plants of <i>Fragaria</i> L., intended for planting, other than seeds

Species	Subject of contamination
14. Tomato black ring virus ^{1;4;30}	Plants of <i>Fragaria</i> L. and <i>Rubus</i> L., intended for planting, other than seeds
15. Tomato spotted wilt virus ^{1;4;8}	Plants of <i>Apium graveolens</i> L., <i>Capsicum annuum</i> L., <i>Cucumis melo</i> L., <i>Dendranthema</i> (DC.) Des Moul., all varieties of New Guinea hybrids <i>Impatiens</i> , <i>Lactuca sativa</i> L., <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw. <i>Nicotiana tabacum</i> L., of which there shall be evidence that they are intended for sale to professional tobacco production. <i>Solanum melongena</i> L. and <i>Solanum tuberosum</i> L., intended for planting, other than seeds
16. Tomato yellow leaf curl virus ^{1;4;8}	Plants of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw., intended for planting, other than seeds



PART B

HARMFUL ORGANISMS WHOSE INTRODUCTION INTO, AND WHOSE SPREAD WITHIN, CERTAIN PROTECTED ZONES SHALL BE BANNED IF THEY ARE PRESENT ON CERTAIN PLANTS OR PLANT PRODUCTS

(a) Insect mites and nematodes, at all stages of their development

Species	Subject of contamination	Protected zone(s)
1. <i>Anthonomus grandis</i> (Boh.) ^{1;8}	Seeds and fruits (bolls) of <i>Gossypium</i> spp. and unginned cotton	EL, E (Andalucia, Catalonia, Extremadura, Murcia, Valencia)
2. <i>Cephalcia lariciphila</i> (Klug) ^{1;31}	Plants of <i>Larix</i> Mill., intended for planting, other than seeds	IRL, UK (Northern Ireland, Isle of Man and Jersey)
3. <i>Dendroctonus micans</i> Kugelan ^{1;11}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. and <i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	EL, IRL, UK (Northern Ireland, Isle of Man and Jersey)
4. <i>Gilpinia hercyniae</i> (Hartig) ^{1;32} [<i>Gilpinia hercyniae</i>]	Plants of <i>Picea</i> A. Dietr., intended for planting, other than seeds	EL, IRL, UK (Northern Ireland, Isle of Man and Jersey)
5. <i>Gonipterus scutellatus</i> Gyll. ^{1;33} (eucalyptus weevil)	Plants of <i>Eucalyptus</i> l'Herit., other than fruit and seeds	EL, P (Azores)
6. (a) <i>Ips amitinus</i> Eichhof ^{1;34}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr. and <i>Pinus</i> L., over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	EL, F (Corsica), IRL, UK
(b) <i>Ips cembrae</i> Heer ^{1;35}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr. and <i>Pinus</i> L. and <i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	EL, IRL, UK (Northern Ireland, Isle of Man)



Species	Subject of contamination	Protected zone(s)
(c) <i>Ips duplicatus</i> Sahlberg ^{1;36}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr. and <i>Pinus</i> L., over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	EL, IRL, UK
(d) <i>Ips sexdentatus</i> Börner ^{1;37}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	IRL, CY, UK (Northern Ireland, Isle of Man)
(e) <i>Ips typographus</i> Heer ^{1;38}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. and <i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds, wood of conifers (<i>Coniferales</i>) with bark, isolated bark of conifers	IRL, UK
9. <i>Sternochetus mangiferae</i> Fabricius^{1;8} (mango seed weevil)	Seeds of <i>Mangifera</i> spp. originating in third countries	E (Granada and Malaga), P (Alentejo, Algarve and Madeira)
10. <i>Thaumetopoea pityocampa</i> (Den. and Schiff.)^{1;39}	Plants of <i>Pinus</i> L., intended for planting, other than fruit and seeds	E (Ibiza)

(b) **Bacteria**

Species	Subject of contamination	Protected zone(s)
1. <i>Curtobacterium flaccumfaciens</i> pv. <i>flaccumfaciens</i> (Hedges) Collins and Jones ^{1;4;8}	Seeds of <i>Phaseolus vulgaris</i> L. and <i>Dolichos</i> Jacq.	EL, E, P
2. <i>Erwinia amylovora</i> (Burr.) Winsl. et al. ^{1;4;8}	Parts of plants, other than fruit, seeds and plants intended for planting, but including live pollen for pollination of <i>Amelanchier</i> Med., <i>Chaenomeles</i> Lindl.,	E, EE, F (Corsica), IRL, I (Abruzzi; Apulia; Basilicata; Calabria; Campania; Emilia- Romagna: provinces of Forlì-Cesena (with



Species	Subject of contamination	Protected zone(s)
	Cotoneaster Ehrh., Crataegus L., Cydonia Mill., Eriobotrya Lindl., Malus Mill., Mespilus L., Photinia davidiana (Dcne.) Cardot, Pyracantha Roem., Pyrus L. and Sorbus L.	exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia), Parma, Piacenza and Rimini (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia); Friuli-Venezia Giulia; Lazio; Liguria; Lombardy; Marche; Molise; Piedmont; Sardinia; Sicily; Tuscany; Umbria; Valle d'Aosta; Veneto: except in the province of Rovigo the communes Rovigo, Polesella, Villamarzana, Fratta Polesine, San Bellino, Badia Polesine, Trecenta, Ceneselli, Pontecchio Polesine, Arquà Polesine, Costa di Rovigo, Occhiobello, Lendinara, Canda, Ficarolo, Guarda Veneta, Frassinelle Polesine, Villanova del Ghebbo, Fiesse Umbertoiano, Castelfuglielmo, Bagnolo di Po, Giacciano con Baruchella, Bosaro, Canaro, Lusina, Pincara, Stienta, Gaiba, Salara, and in the province of Padova the communes Castelbaldo, Barbona, Piacenza d'Adige, Vescovana, S. Urbano, Boara Pisani, Masi, and in the province of Verona the communes Palù,



Species	Subject of contamination	Protected zone(s)
		Roverchiara, Legnago, Castagnaro, Ronco all'Adige, Villa Bartolomea, Oppeano, Terrazzo, Isola Rizza, Angiari), LV, LT, A (Burgenland, Carinthia, Lower Austria, Tirol (administrative district Lienz), Styria, Vienna), P, SI (except the Gorenjska and Maribor regions), SK (except the communes of Blahová, Horné Mýto and Okoč (Dunajská Streda County), Hronovce and Hronské Kláčany (Levice County), Veľké Ripňany (Topoľčany County), Málinec (Poltár County), Hrhov (Rožňava County), Kazimír, Luhyňa, Malý Horeš, Svätušie and Zátin (Trebíšov County)), FI, UK (Northern Ireland, Isle of Man and Channel Islands)



(c) Fungi

Species	Subject of contamination	Protected zone(s)
0.1. <i>Cryphonectria parasitica</i> (Murrill.) Barr. Mill. ^{1;2;8}	Wood, excluding wood which is bark-free, and isolated bark of <i>Castanea</i>	CZ, EL, (Crete, Lesvos) IRL, S, UK (except the Isle of Man)
1. <i>Glomerella gossypii</i> Edgerton ^{1;2;8} [<i>Colletotrichum gossypii</i> Southw.] (anthracnose of cotton)	Seeds and fruits (bolls) of <i>Gossypium</i> spp.	EL
2. <i>Gremmeniella abietina</i> (Lag.) Morelet ^{1;2;40}	Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. and <i>Pseudotsuga</i> Carr., intended for planting, other than seeds	IRL, UK (Northern Ireland)
3. <i>Hypoxyton mammatum</i> (Wahl.) J. Miller ^{1;2;41}	Plants of <i>Populus</i> L., intended for planting, other than seeds	IRL, UK (Northern Ireland)

(d) Virus and virus-like organisms

Species	Subject of contamination	Protected zone(s)
1. <i>Citrus tristeza virus</i> (European isolates) ^{1;4;8} [<i>Citrus tristeza closterovirus</i>]	Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, with leaves and peduncles	EL, F (Corsica), M, P
2. Grapevine flavescence dorée MLO ^{1;4;23}	Plants of <i>Vitis</i> L., other than fruit and seeds.	CZ, FR (Champagne-Ardenne, Lorraine and Alsace), IT (Basilicata)

ANNEX III

PART A

PLANTS, PLANT PRODUCTS AND OTHER OBJECTS THE INTRODUCTION OF WHICH SHALL BE PROHIBITED IN ALL MEMBER STATES

Description	Country of origin	Export Certification guidelines
1. Plants of <i>Abies</i> Mill., <i>Cedrus</i> Trew, <i>Chamaecyparis</i> Spach, <i>Juniperus</i> L., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Pseudotsuga</i> Carr. and <i>Tsuga</i> Carr., other than fruit and seeds	Non-European countries	<ul style="list-style-type: none"> Regulated articles are prohibited to be exported from South Africa to all Member States
2. Plants of <i>Castanea</i> Mill., and <i>Quercus</i> L., with leaves, other than fruit and seeds	Non-European countries	<ul style="list-style-type: none"> Regulated articles are prohibited to be exported from South Africa to all Member States
3. Plants of <i>Populus</i> L., with leaves, other than fruit and seeds	North American countries	<ul style="list-style-type: none"> Regulated articles are allowed to be exported from South Africa to all Member States
5. Isolated bark of <i>Castanea</i> Mill.	Third countries	<ul style="list-style-type: none"> Regulated articles are prohibited to be exported from South Africa to all Member States
6. Isolated bark of <i>Quercus</i> L., other than <i>Quercus suber</i> L.	North American countries	<ul style="list-style-type: none"> Regulated articles are allowed to be exported from South Africa to all Member States
7. Isolated bark of <i>Acer saccharum</i> Marsh.	North American countries	<ul style="list-style-type: none"> Regulated articles are allowed to be exported from South Africa to all Member States
8. Isolated bark of <i>Populus</i> L.	Countries of the American continent	<ul style="list-style-type: none"> Regulated articles are allowed to be exported from South Africa to all Member States
9. Plants of <i>Chaenomeles</i> Ldl., <i>Cydonia</i> Mill., <i>Crateagus</i> L., <i>Malus</i>	Non-European countries	<ul style="list-style-type: none"> Regulated articles are prohibited to be exported from South Africa

Description	Country of origin	Export Certification guidelines
Mill., <i>Prunus</i> L., <i>Pyrus</i> L., and <i>Rosa</i> L., intended for planting, other than dormant plants free from leaves, flowers and fruit		to all Member States
9.1. Plants of <i>Photinia</i> Ldl., intended for planting, other than dormant plants free from leaves, flowers and fruit	USA, China, Japan, the Republic of Korea and Democratic People's Republic of Korea	<ul style="list-style-type: none"> Regulated articles are allowed to be exported from South Africa to all Member States
10. Tubers of <i>Solanum tuberosum</i> L. (seed potatoes)	Third countries other than Switzerland	<ul style="list-style-type: none"> Without prejudice of a derogation, it is forbidden for phytosanitary reasons to import seed potatoes from all third countries (with include South Africa) except Switzerland.
11. Plants of stolon- or tuber-forming species of <i>Solanum</i> L. or their hybrids, intended for planting, other than those tubers of <i>Solanum tuberosum</i> L. as specified under Annex III A (10)	Third countries	<ul style="list-style-type: none"> Regulated articles are prohibited to be exported from South Africa to all Member States
12. Tubers of species of <i>Solanum</i> L., and their hybrids, other than those specified in points 10 and 11 (table potatoes)	Without prejudice to the special requirements applicable to the potato tubers listed in Annex IV, Part A Section I, third countries other than Algeria, Egypt, Israel, Libya, Morocco, Syria, Switzerland, Tunisia and Turkey, and other than European third countries which are either recognised as being free from <i>Clavibacter michiganensis</i> ssp. <i>sepedonicus</i> (Spieckermann and Kotthoff) Davis <i>et al.</i> , in accordance with the procedure referred to in Article 18(2) , or in which provisions recognised as equivalent to	<ul style="list-style-type: none"> Without prejudice of a derogation, it is forbidden for phytosanitary reasons to export ware potatoes from South Africa. Trade of ware potatoes is only allowed with the EU's Mediterranean partners (Algeria, Egypt, Israel, Libya, Morocco, Syria, Tunisia and Turkey), Switzerland and other European third countries. These countries trade mainly table potatoes, especially early potatoes, and do not make a difference on the EU markets of



Description	Country of origin	Export Certification guidelines
	the Community provisions on combating <i>Clavibacter michiganensis</i> ssp. <i>sepedonicus</i> (Spieckermann and Kotthoff) Davis <i>et al.</i> in accordance with the procedure referred to in Article 18(2), have been complied with	potatoes for processing.
13. Plants of <i>Solanaceae</i> intended for planting, other than seeds and those items covered by Annex III A (10), (11) or (12)	Third countries, other than European and Mediterranean countries	<ul style="list-style-type: none"> • Regulated articles are prohibited to be exported from South Africa to all Member States
14. Soil and growing medium as such, which consists in whole or in part of soil or solid organic substances such as parts of plants, humus including peat or bark, other than that composed entirely of peat	Turkey, Belarus, Moldavia, Russia, Ukraine and third countries not belonging to continental Europe, other than the following: Egypt, Israel, Libya, Morocco, Tunisia	<ul style="list-style-type: none"> • Regulated articles are prohibited to be exported from South Africa to all Member States
15. Plants of <i>Vitis</i> L., other than fruits	Third countries other than Switzerland	<ul style="list-style-type: none"> • Regulated articles are prohibited to be exported from South Africa to all Member States
16. Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds	Third countries	<ul style="list-style-type: none"> • Regulated articles are prohibited to be exported from South Africa to all Member States
17. Plants of <i>Phoenix</i> spp. other than fruit and seeds	Algeria, Morocco	<ul style="list-style-type: none"> • Regulated articles are allowed to be exported from South Africa to all Member States
18. Plants of <i>Cydonia</i> Mill., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L. and their hybrids, and <i>Fragaria</i> L., intended for planting, other than seeds	Without prejudice to the prohibitions applicable to the plants listed in Annex III A (9), where appropriate, non-European countries, other than Mediterranean countries, Australia, New Zealand, Canada, the continental states of the USA	<ul style="list-style-type: none"> • Regulated articles are prohibited to be exported from South Africa to all Member States



Description	Country of origin	Export Certification guidelines
19. Plants of the family <i>Graminaceae</i> , other than plants of ornamental perennial grasses of the subfamilies <i>Bambusoideae</i> and <i>Panicoideae</i> and of the genera <i>Buchloe</i> , <i>Bouteloua</i> Lag., <i>Calamagrostis</i> , <i>Cortaderia</i> Stapf., <i>Glyceria</i> R. Br., <i>Hakonechloa</i> Mak. ex Honda, <i>Hystrix</i> , <i>Molinia</i> , <i>Phalaris</i> L., <i>Shibataea</i> , <i>Spartina</i> Schreb., <i>Stipa</i> L. and <i>Uniola</i> L., intended for planting, other than seeds	Third countries, other than European and Mediterranean countries	<ul style="list-style-type: none">• Regulated articles are prohibited to be exported from South Africa to all Member States

PART B

PLANTS, PLANT PRODUCTS AND OTHER OBJECTS THE INTRODUCTION OF WHICH SHALL BE PROHIBITED IN CERTAIN PROTECTED ZONES

Description	Protected zone(s)	Export Certification guidelines
<p>1. Without prejudice to the prohibitions applicable to the plants listed in Annex IIIA (9), (9.1), (18), where appropriate, plants and live pollen for pollination of: <i>Amelanchier</i> Med., <i>Chaenomeles</i> Lindl., <i>Crataegus</i> L., <i>Cydonia</i> Mill., <i>Eriobotrya</i> Lindl., <i>Malus</i> Mill., <i>Mespilus</i> L., <i>Pyracantha</i> Roem., <i>Pyrus</i> L. and <i>Sorbus</i> L., other than fruit and seeds, originating in third countries other than Switzerland and other than those recognised as being free from <i>Erwinia amylovora</i> (Burr.) Winsl. et al. in accordance with the procedure laid down in Article 18(2), or in which pest free areas have been established in relation to <i>Erwinia amylovora</i> (Burr.) Winsl. et al. in accordance with the relevant International Standard for Phytosanitary Measures and recognised as such in accordance with the procedure laid down in Article 18(2)</p>	<p>E, EE, F (Corsica), IRL, I (Abruzzi; Apulia; Basilicata; Calabria; Campania; Emilia- Romagna: provinces of Forlì- Cesena (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia), Parma, Piacenza and Rimini (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia); Friuli-Venezia Giulia; Lazio; Liguria; Lombardy; Marche; Molise; Piedmont; Sardinia; Sicily; Tuscany; Umbria; Valle d'Aosta; Veneto: except in the province of Rovigo the communes Rovigo, Polesella, Villamarzana, Fratta Polesine, San Bellino, Badia Polesine, Trecenta, Ceneselli, Pontecchio Polesine, Arquà Polesine, Costa di Rovigo, Occhiobello, Lendinara, Canda, Ficarolo, Guarda Veneta, Frassinelle Polesine, Villanova del Ghebbo, Fiesso Umbertino, Castelguglielmo, Bagnolo di Po, Giacciano con Baruchella, Bosaro, Canaro, Lusina, Pincara, Stienta, Gaiba,</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex IIIA (9), (18)]: <ul style="list-style-type: none"> ○ <i>Chaenomeles</i> Ldl., ○ <i>Cydonia</i> Mill., ○ <i>Crataegus</i> L., ○ <i>Malus</i> Mill., ○ <i>Pyrus</i> L. • The following plants are allowed to be exported from South Africa to the protected zone(s) <ul style="list-style-type: none"> – <i>Amelanchier</i> Med. – <i>Eriobotrya</i> Lindl., – <i>Mespilus</i> L., – <i>Pyracantha</i> Roem., – <i>Sorbus</i> L • <i>Erwinia amylovora</i> (Burr.) Winsl. et al.^{1;4;8} are not known to occur in South Africa.



Description	Protected zone(s)	Export Certification guidelines
	Salara, and in the province of Padova the communes Castelbaldo, Barbona, Piacenza d'Adige, Vescovana, S. Urbano, Boara Pisani, Masi, and in the province of Verona the communes Palù, Roverchiara, Legnago, Castagnaro, Ronco all'Adige, Villa Bartolomea, Oppeano, Terrazzo, Isola Rizza, Angiari), LV, LT, A (Burgenland, Carinthia, Lower Austria, Tirol (administrative district Lienz), Styria, Vienna), P, SI (except the Gorenjska and Maribor regions), SK (except the communes of Blahová, Horné Mýto and Okoč (Dunajská Streda County), Hronovce and Hronské Kľačany (Levice County), Velké Ripnany (Topoľčany County), Málinec (Poltár County), Hrhov (Rožnava County), Kazimír, Luhyna, Malý Horeš, Svätuš and Zátin (Trebišov County)), FI, UK (Northern Ireland, Isle of Man and Channel Islands)	
2. Without prejudice to the prohibitions applicable to the plants listed in Annex IIIA (9), (9.1), (18), where appropriate, plants and live pollen for pollination of: <i>Cotoneaster</i> Ehrh. and <i>Photinia davidiana</i> (Dcne.) Cardot, other than fruit and seeds, originating in third countries other than those recognised as being free from <i>Erwinia amylovora</i>	E, EE, F (Corsica), IRL, I (Abruzzi; Apulia; Basilicata; Calabria; Campania; Emilia- Romagna: provinces of Forlì- Cesena (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia), Parma, Piacenza and Rimini (with exclusion of the provincial area situated to the North of the State road	<ul style="list-style-type: none"> • Regulated articles are allowed to be exported from South Africa the protected zone(s) <ul style="list-style-type: none"> – <i>Erwinia amylovora</i> (Burr.) Winsl. et al.^{1;4;8} are not known to occur in South Africa.



Description	Protected zone(s)	Export Certification guidelines
(Burr.) Winkl. Et al. in accordance with the procedure laid down in Article 18(2), or in which pest free areas have been established in relation to <i>Erwinia amylovora</i> (Burr.) Winkl. et al. in accordance with the relevant International Standard for Phytosanitary Measures and recognised as such in accordance with the procedure laid down in Article 18(2)	n. 9 — Via Emilia); Friuli-Venezia Giulia; Lazio; Liguria; Lombardy; Marche; Molise; Piedmont; Sardinia; Sicily; Tuscany; Umbria; Valle d'Aosta; Veneto: except in the province of Rovigo the communes Rovigo, Polesella, Villamarzana, Fratta Polesine, San Bellino, Badia Polesine, Trecenta, Ceneselli, Pontecchio Polesine, Arquà Polesine, Costa di Rovigo, Occhiobello, Lendinara, Canda, Ficarolo, Guarda Veneta, Frassinelle Polesine, Villanova del Ghebbo, Fiesse Umbertoiano, Castelfuglielmo, Bagnolo di Po, Giacciano con Baruchella, Bosaro, Canaro, Lusina, Pincara, Stienta, Gaiba, Salara, and in the province of Padova the communes Castelbaldo, Barbona, Piacenza d'Adige, Vescovana, S. Urbano, Boara Pisani, Masi, and in the province of Verona the communes Palù, Roverchiara, Legnago, Castagnaro, Ronco all'Adige, Villa Bartolomea, Oppeano, Terrazzo, Isola Rizza, Angiari), LV, LT, A (Burgenland, Carinthia, Lower Austria, Tirol (administrative district Lienz), Styria, Vienna), P, SI (except the Gorenjska and Maribor regions), SK (except the communes of Blahová, Horné Mýto and Okoč (Dunajská Streda County), Hronovce and Hronské Kláčany	



Description	Protected zone(s)	Export Certification guidelines
	(Levice County), Velké Ripnany (Topoľčany County), Málinec (Poltár County), Hrhov (Rožnava County), Kazimír, Luhyna, Malý Horeš, Svätušie and Zátin (Trebišov County)), FI, UK (Northern Ireland, Isle of Man and Channel Islands)	

ANNEX IV

PART A

SPECIAL REQUIREMENTS WHICH MUST BE LAID DOWN BY ALL MEMBER STATES FOR THE INTRODUCTION AND MOVEMENT OF PLANTS, PLANT PRODUCTS AND OTHER OBJECTS INTO AND WITHIN ALL MEMBER STATES

Section I

PLANTS, PLANT PRODUCTS AND OTHER OBJECTS ORIGINATING OUTSIDE THE COMMUNITY

Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>1.1. Whether or not listed among the CN codes in Annex V, Part B, wood of conifers (Coniferales), except that of <i>Thuja</i> L., other than in the form of:</p> <ul style="list-style-type: none"> — chips, particles, sawdust, shavings, wood waste and scrap obtained in whole or part from these conifers, — wood packaging material, in the form of packing cases, boxes, crates, drums and similar packings, pallets, box pallets and other load boards, pallet collars, actually in use in the transport of objects of all kinds, — wood used to wedge or support non-wood cargo, — wood of <i>Libocedrus decurrens</i> Torr. where there is evidence that the wood has been processed or manufactured for 	<p>Official statement that the wood has undergone an appropriate:</p> <p>(a) heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes. There shall be evidence thereof by a mark 'HT' put on the wood or on any wrapping in accordance with current usage, and on the certificates referred to in Article 13.1.(ii), or</p> <p>(b) fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the</p>	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – <i>Bursaphelenchus xylophilus</i>^{6,7,8} (Steiner et Bühner) is not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>pencils using heat treatment to achieve a minimum temperature of 82 °C for a seven to eight-day period,</p> <p>but including that which has not kept its natural round surface, originating in Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>exposure time (h), or</p> <p>(c) chemical pressure impregnation with a product approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1. (ii), the active ingredient, the pressure (psi or kPa) and the concentration (%).</p>	
<p>1.2. Whether or not listed among the CN codes in Annex V, Part B, wood of conifers (Coniferales), except that of <i>Thuja</i> L., in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap obtained in whole or part from these conifers,</p> <p>originating in Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>Official statement that the wood has undergone an appropriate:</p> <p>(a) heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes, the latter to be indicated on the certificates referred to in Article 13.1.(ii), or</p> <p>(b) fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1. (ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the exposure time (h).</p>	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – <i>Bursaphelenchus xylophilus</i>^{6,7,8} (Steiner et Bühner) is not known to occur in South Africa
<p>1.3 Whether or not listed among the CN codes in Annex V, Part B, wood of <i>Thuja</i> L., other than in the form of:</p>	<p>Official statement that the wood:</p> <p>(a) is bark-free, or</p> <p>(b) has undergone kiln-drying to below</p>	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – <i>Bursaphelenchus xylophilus</i>^{6,7,8} (Steiner et Bühner) is not known



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>— chips, particles, sawdust, shavings, wood waste and scrap, — wood packaging material, in the form of packing cases, boxes, crates, drums and similar packings, pallets, box pallets and other load boards, pallet collars, actually in use in the transport of objects of all kinds, — wood used to wedge or support non-wood cargo,</p> <p>originating in Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'kiln dried' or 'K.D.' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage, or (c) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes. There shall be evidence thereof by a mark 'HT' put on the wood or on any wrapping in accordance with current usage and on the certificates referred to in Article 13.1.(ii), or (d) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the exposure time (h), or (e) has undergone an appropriate chemical pressure impregnation with a product approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof</p>	<p>to occur in South Africa</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
	by indicating on the certificates referred to in Article 13.1. (ii), the active ingredient, the pressure (psi or kPa) and the concentration (%).	
<p>1.4. Whether or not listed among the CN codes in Annex V, Part B, wood of <i>Thuja</i> L., in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap,</p> <p>originating in Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>Official statement that the wood:</p> <p>(a) has been produced from debarked round wood, or</p> <p>(b) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule, or</p> <p>(c) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the exposure time (h), or</p> <p>(d) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes, the latter to be indicated on the certificates referred to in Article 13.1. (ii).</p>	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – <i>Bursaphelenchus xylophilus</i>^{6,7,8} (Steiner et Bühner) is not known to occur in South Africa
<p>1.5. Whether or not listed among the CN codes in Annex V, Part B, wood of conifers (Coniferales), other than in the form of:</p>	<p>Official statement that the wood:</p> <p>(a) originates in areas known to be free from:</p>	<ul style="list-style-type: none"> • Not applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>— chips, particles, sawdust, shavings, wood waste and scrap obtained in whole or part from these conifers,</p> <p>— wood packaging material in the form of packing cases, boxes, crates, drums and similar packings, pallets, box pallets and other load boards, pallet collars, actually in use in the transport of objects of all kinds,</p> <p>— wood used to wedge or support non-wood cargo,</p> <p>but including that which has not kept its natural round surface, originating in Russia, Kazakhstan and Turkey.</p>	<p>— <i>Monochamus</i> spp. (non-European)</p> <p>— <i>Pissodes</i> spp. (non-European)</p> <p>— <i>Scolytidae</i> spp. (non-European)</p> <p>The area shall be mentioned on the certificates referred to in Article 13.1.(ii), under the rubric 'place of origin,' or</p> <p>(b) is bark-free and free from grub holes, caused by the genus <i>Monochamus</i> spp. (non-European), defined for this purpose as those which are larger than 3 mm across, or</p> <p>(c) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'kiln dried' or 'K.D'. or another internationally recognised mark, put on the wood or on any wrapping in accordance with the current usage, or</p> <p>(d) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes. There shall be evidence thereof by a mark 'HT' put on the wood or on any wrapping in accordance with current usage, and on the certificates referred to in Article 13.1.(ii), or</p> <p>(e) has undergone an appropriate</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m ³) and the exposure time (h), or (f) has undergone an appropriate chemical pressure impregnation with a product approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1. (ii), the active ingredient, the pressure (psi or kPa) and the concentration (%).	
<p>1.6. Whether or not listed among the CN codes in Annex V, Part B, wood of conifers (Coniferales), other than in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap obtained in whole or part from these conifers, — wood packaging material, in the form of packing cases, boxes, crates, drums and similar packings, pallets, box pallets and other load boards, pallet collars, actually in use in the transport of objects of all kinds,</p>	<p>Official statement that the wood:</p> <p>(a) is bark-free and free from grub holes, caused by the genus <i>Monochamus</i> spp. (non-European), defined for this purpose as those which are larger than 3 mm across, or (b) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'kiln dried' or 'K.D' or another internationally</p>	<p>• Of the non-European species regulated, only <i>Monochamus leuconotus</i>¹ (white coffee stem borer) occurs in South Africa.</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>— wood used to wedge or support non-wood cargo,</p> <p>but including that which has not kept its natural round surface, originating in third countries, other than:</p> <p>— Russia, Kazakhstan and Turkey,</p> <p>— European countries,</p> <p>— Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>recognised mark, put on the wood or on any wrapping in accordance with current usage, or</p> <p>(c) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the exposure time (h), or</p> <p>(d) has undergone an appropriate chemical pressure impregnation with a product approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the pressure (psi or kPa) and the concentration (%), or</p> <p>(e) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes. There shall be evidence thereof by a mark 'HT' put on the wood or on any wrapping in accordance with current usage, and on the certificates referred to in Article 13.1.(ii).</p>	
1.7. Whether or not listed among the CN	Official statement that the wood:	<ul style="list-style-type: none"> • Of the non-European species



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>codes listed in Annex V, Part B, wood in the form of chips, particles, sawdust, shavings, wood waste and scrap obtained in whole or in part from conifers (Coniferales), originating in</p> <p>— Russia, Kazakhstan and Turkey, — non-European countries other than Canada, China, Japan, the Republic of Korea, Mexico, Taiwan and the USA, where <i>Bursaphelenchus xylophilus</i> (Steiner et Bühner) Nickle et al. is known to occur.</p>	<p>(a) originates in areas known to be free from: — <i>Monochamus</i> spp. (non-European) — <i>Pissodes</i> spp. (non-European) — <i>Scolytidae</i> spp. (non-European) The area shall be mentioned on the certificates referred to in Article 13.1.(ii), under the rubric 'place of origin,' or (b) has been produced from debarked round wood, or (c) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule, or (d) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence of the fumigation by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m³) and the exposure time (h), or (e) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes, the latter to be indicated</p>	<p>regulated, only <i>Monochamus leuconotus</i>¹ (white coffee stem borer) occurs in South Africa.</p> <ul style="list-style-type: none"> • Of all the non-European species regulated, <i>Pissodes nemorensis</i>^{1;8} (northern pine weevil) occurs in South Africa. • None of the non-European species in the <i>Scolytidae</i> family listed in the EPPO A1 and A2 lists of pests recommended for regulation as quarantine pests occurs in South Africa.



Plants, plant products and other objects	Special requirements	Export certification guidelines
	on the certificates referred to in Article 13.1. (ii).	
2. Wood packaging material , in the form of packing cases, boxes, crates, drums and similar packings, pallets, box pallets and other load boards, pallet collars, actually in use in the transport of objects of all kinds, except raw wood of 6 mm thickness or less, and processed wood produced by glue, heat and pressure, or a combination thereof, coming from third countries, except Switzerland.	<p>The wood packaging material shall:</p> <ul style="list-style-type: none">— be made from debarked round wood, and— be subject to one of the approved measures as specified in Annex I to FAO International Standard for Phytosanitary Measures No 15 on <i>Guidelines for regulating wood packaging material in international trade</i>, and— display a mark with: <p>(a) the two-letter ISO country code, a code identifying the producer and the code identifying the approved measure applied to the wood packaging material in the mark as specified in Annex II to FAO International Standard for Phytosanitary Measures No 15 on <i>Guidelines for regulating wood packaging material in international trade</i>. The letters 'DB' shall be added to the abbreviation of the approved measure included in the said mark, and</p> <p>(b) in the case of wood packaging material manufactured, repaired or</p>	Refer to ISPM 15



Plants, plant products and other objects	Special requirements	Export certification guidelines
	recycled as of 1 March 2005, also the logo as specified in Annex II to the said FAO Standard. However the requirement is not applicable on a temporary basis until 31 December 2007 in the case of wood packaging material manufactured, repaired or recycled before 28 February 2005. The first indent, requiring wood packaging material to be made from debarked round wood, shall only apply from 1 January 2009. This paragraph shall be reviewed by 1 September 2007.	
<p>2.1. Wood of <i>Acer saccharum</i> Marsh., including wood which has not kept its natural round surface, other than in the form of:</p> <p>— wood intended for the production of veneer sheets, — chips, particles, sawdust, shavings, wood waste and scrap,</p> <p>originating in the USA and Canada.</p>	<p>Official statement that:</p> <p>the wood has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'Kiln-dried' or 'KD' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage.</p>	<p>• Not applicable to South Africa</p>
<p>2.2. Wood of <i>Acer saccharum</i> Marsh., intended for the production of veneer sheets, originating in the USA and Canada.</p>	<p>Official statement that:</p> <p>the wood originates in areas known to be free from <i>Ceratocystis virescens</i></p>	<p>• Not applicable to South Africa</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
	(Davidson) Moreau and is intended for the production of veneer sheets.	
<p>3. Wood of <i>Quercus</i> L., other than in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap, — casks, barrels, vats, tubs and other coopers' products and parts thereof, of wood, including staves where there is documented evidence that the wood has been produced or manufactured using heat treatment to achieve a minimum temperature of 176 °C for 20 minutes</p> <p>but including wood which has not kept its natural round surface, originating in the USA.</p>	<p>Official statement that the wood:</p> <p>(a) is squared so as to remove entirely the rounded surface, or (b) is bark-free and the water content is less than 20% expressed as a percentage of the dry matter, or (c) is bark-free and has been disinfected by an appropriate hot-air or hot water treatment, or (d) if sawn, with or without residual bark attached, has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'Kiln-dried' or 'KD' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage.</p>	<p>• Not applicable to South Africa</p>
<p>5. Wood of <i>Platanus</i> L., except that in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap, but including wood which has not kept its</p>	<p>Official statement that:</p> <p>the wood has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/ temperature</p>	<p>• Not applicable to South Africa</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
natural round surface, originating in the USA or Armenia.	schedule. There shall be evidence thereof by a mark 'kiln-dried' or 'KD' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage.	
<p>6. Wood of <i>Populus L.</i>, except that in the form of:</p> <p>— chips, particles, sawdust, shavings, wood waste and scrap,</p> <p>but including wood which has not kept its natural round surface, originating in countries of the American continent.</p>	<p>Official statement that the wood:</p> <p>— is bark-free, or</p> <p>— has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, achieved through an appropriate time/temperature schedule. There shall be evidence thereof by a mark 'kiln dried' or 'KD' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage.</p>	<p>• Not applicable to South Africa</p>
<p>7.1. Whether or not listed among the CN codes in Annex V, Part B, wood in the form of chips, particles, sawdust, shavings, wood waste and scrap and obtained in whole or in part from:</p> <p>— <i>Acer saccharum Marsh.</i>, originating in the USA and Canada,</p> <p>— <i>Platanus L.</i>, originating in the USA or Armenia,</p> <p>— <i>Populus L.</i>, originating in the American continent.</p>	<p>Official statement that the wood:</p> <p>(a) has been produced from debarked round wood, or</p> <p>(b) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter achieved through an appropriate time/temperature schedule, or</p> <p>(c) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid</p>	<p>• Not applicable to South Africa</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
	down in Article 18.2. There shall be evidence of the fumigation by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m ³) and the exposure time (h), or (d) has undergone an appropriate heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes, the latter to be indicated on the certificates referred to in Article 13.1.(ii).	
7.2. Whether or not listed among the CN codes in Annex V, Part B, wood in the form of chips, particles, sawdust, shavings, wood waste and scrap and obtained in whole or part from Quercus L. originating in the USA.	Official statement that the wood: (a) has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter achieved through an appropriate time/temperature schedule, or (b) has undergone an appropriate fumigation to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence of the fumigation by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum wood temperature, the rate (g/m ³) and the exposure time (h), or (c) has undergone an appropriate	• Not applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	heat treatment to achieve a minimum core temperature of 56 °C for at least 30 minutes, the latter to be indicated on the certificates referred to in 13.1.(ii).	
7.3. Isolated bark of conifers (Coniferales), originating in non-European countries	Official statement that the isolated bark: (a) has been subjected to an appropriate fumigation with a fumigant approved in accordance with the procedure laid down in Article 18.2. There shall be evidence thereof by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum bark temperature, the rate (g/m ³) and the exposure time (h), or (b) has undergone an appropriate heat treatment to achieve the minimum temperature of 56 °C for at least 30 minutes, the latter to be indicated on the certificates referred to in Article 13.1.(ii).	• Applicable to South Africa.
8. Wood used to wedge or support non-wood cargo , including that which has not kept its natural round surface, except raw wood of 6 mm thickness or less and processed wood produced by glue, heat and pressure, or a combination thereof, coming from third	The wood shall: (a) be made from debarked round wood, and — be subject to one of the approved measures as specified in Annex I to FAO International Standard for	Refer to ISPM 15



Plants, plant products and other objects	Special requirements	Export certification guidelines
countries, except Switzerland.	<p>Phytosanitary Measures No 15 on <i>Guidelines for regulating wood packaging material in international trade</i>, and</p> <p>— display a mark with at least the two-letter ISO country code, a code identifying the producer and the code identifying the approved measure applied to the wood packaging material in the mark as specified in Annex II to FAO International Standard for Phytosanitary Measures No 15 on <i>Guidelines for regulating wood packaging material in international trade</i>. The letters ‘DB’ shall be added to the abbreviation of the approved measure included in the said mark, or</p> <p>on a temporary basis until 31 December 2007</p> <p>(b) be made from bark-free wood that is free from pests and signs of live pests. The first line of point (a), requiring wood packaging material to be made from debarked round wood, shall only apply from 1 January 2009. This paragraph shall be reviewed by 1 September 2007.</p>	
8.1. Plants of conifers (Coniferales), other than fruit and seeds, originating in non-European countries	Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(1), where appropriate, official	<ul style="list-style-type: none"> • The following plants of conifers are prohibited to be exported from South Africa (Annex III(A)(1):

Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>statement that:</p> <ul style="list-style-type: none"> – the plants have been produced in nurseries and that the place of production is free from <i>Pissodes</i> spp. (non-European). 	<ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Cedrus</i> Trew, – <i>Chamaecyparis</i> Spach, – <i>Juniperus</i> L., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr. – <i>Tsuga</i> Carr. • Of all the non-European species regulated, <i>Pissodes nemorensis</i> ^{1;8} (northern pine weevil) occurs in South Africa.
<p>8.2. Plants of conifers (Coniferales), other than fruit and seeds, over 3 m in height, originating in non-European countries</p>	<p>Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(1), and Annex IV(A)(I)(8.1), where appropriate, official statement that:</p> <ul style="list-style-type: none"> – the plants have been produced in nurseries and that the place of production is free from <i>Scolytidae</i> spp. (non-European). 	<ul style="list-style-type: none"> • The following plants of conifers are prohibited to be exported from South Africa (Annex III (A)(1): <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Cedrus</i> Trew, – <i>Chamaecyparis</i> Spach, – <i>Juniperus</i> L., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr. – <i>Tsuga</i> Carr. • None of the non-European species in



Plants, plant products and other objects	Special requirements	Export certification guidelines
		the Scolytidae family listed in the EPPO A1 and A2 lists of pests recommended for regulation as quarantine pests, occurs in South Africa
9. Plants of <i>Pinus</i> L., intended for planting, other than seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), and Annex IV(A)(I)(8.1), (8.2), official statement that: <ul style="list-style-type: none"> – no symptoms of <i>Scirrhia acicola</i> (Dearn.) Siggers or <i>Scirrhia pini</i> Funk and Parker have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – Plants of <i>Pinus</i> L. is prohibited to be exported from South Africa (Annex III (A) (1).
10. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. <i>Pseudotsuga</i> Carr. and <i>Tsuga</i> Carr., intended for planting, other than seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), and Annex IV(A)(I)(8.1), (8.2) or (9), where appropriate, official statement that: <ul style="list-style-type: none"> – no symptoms of <i>Melampsora medusae</i> Thümen have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • Not applicable to South Africa • The following plants of conifers are prohibited to be exported from South Africa (Annex III(A)(1): <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr. – <i>Tsuga</i> Carr.
11.01. Plants of <i>Quercus</i> L., other than fruit and seeds, originating in the USA	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(2), official statement that: <ul style="list-style-type: none"> – the plants originate in areas 	<ul style="list-style-type: none"> • Not applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	known to be free from <i>Ceratocystis fagacearum</i> (Bretz) Hunt.	
11.1. Plants of <i>Castanea</i> Mill. and <i>Quercus</i> L., other than fruit and seeds, originating in non-European countries	Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(2) and IV (A)(I)(11.01.), official statement that:: – no symptoms of <i>Cronartium</i> spp. (non-European) have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation.	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – Plants of <i>Castanea</i> Mill. and <i>Quercus</i> L., is prohibited to be exported from South Africa (Annex III(A)(2).
11.2. Plants of <i>Castanea</i> Mill. and <i>Quercus</i> L., intended for planting, other than seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(2) and IV(A)(I)(11.1), official statement that:: (a) the plants originate in areas known to be free from <i>Cryphonectria parasitica</i> (Murrill) Barr; or (b) no symptoms of <i>Cryphonectria parasitica</i> (Murrill) Barr have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation.	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – Plants of <i>Castanea</i> Mill. and <i>Quercus</i> L., is prohibited to be exported from South Africa (Annex III(A)(2).
11.3. Plants of <i>Corylus</i> L., intended for planting, other than seeds, originating in Canada and the United States of America	Official statement that the plants have been grown in nurseries and : (a) originate in an area, established in	<ul style="list-style-type: none"> • Not applicable to South Africa

Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>the country of export by the national plant protection service in that country, as being free from <i>Anisogramma anomala</i> (Peck) E. Müller, in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric 'Additional declaration', or</p> <p>(b) originate in a place of production, established in the country of export by the national plant protection service in that country, as being free from <i>Anisogramma anomala</i> (Peck) E. Müller on official inspections carried out at the place of production or its immediate vicinity since the beginning of the last three complete cycles of vegetation, in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric 'Additional declaration' and declared free from <i>Anisogramma anomala</i> (Peck) E. Müller.</p>	
12. Plants of <i>Platanus</i> L., intended for planting, other than seeds, originating in	<p>Official statement that:</p> <ul style="list-style-type: none"> – no symptoms of <i>Ceratocystis</i> 	<ul style="list-style-type: none"> • Not applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
the USA or Armenia	<i>fimbriata</i> f. sp. <i>platani</i> Walter have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation.	
13.1. Plants of <i>Populus</i> L. , intended for planting, other than seeds, originating in third countries	Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(3), official statement that: <ul style="list-style-type: none"> – no symptoms of <i>Melampsora medusae</i> Thümen have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • <i>Melampsora medusae</i> Thümen^{1,2,8} are known to occur in South Africa
13.2. Plants of <i>Populus</i> L. , other than fruit and seeds, originating in countries of the American continent	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(3) and IV(A)(I)(13.1), official statement that:: <ul style="list-style-type: none"> – no symptoms of <i>Mycosphaerella populorum</i> G. E. Thompson have been observed at the place of production or its immediate vicinity since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • Not applicable to South Africa
14. Plants of <i>Ulmus</i> L. , intended for planting, other than seeds, originating in North American countries	Official statement that: <ul style="list-style-type: none"> – no symptoms of Elm phloem necrosis mycoplasma have been observed at the place of production or in its immediate vicinity since the beginning of the 	<ul style="list-style-type: none"> • Not applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	last complete cycle of vegetation.	
15. Plants of <i>Chaenomeles</i> Lindl., <i>Crataegus</i> L., <i>Cydonia</i> Mill., <i>Eriobotrya</i> Lindl., <i>Malus</i> Mill., <i>Prunus</i> L. and <i>Pyrus</i> L., intended for planting, other than seeds, originating in non-European countries	<p>Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(9), (18) and Annex III(B)(1), where appropriate, official statement that:</p> <p>— the plants originate in a country known to be free from <i>Monilinia fructicola</i> (Winter) Honey; or</p> <p>— the plants originate in an area recognized as being free from <i>Monilinia fructicola</i> (Winter) Honey, in accordance with the procedure referred to in Article 18(2) , and no symptoms of <i>Monilinia fructicola</i> (Winter) Honey have been observed at the place of production since the beginning of the last complete cycle of vegetation.</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18): <ul style="list-style-type: none"> – <i>Chaenomeles</i> Lindl., – <i>Crataegus</i> L., – <i>Cydonia</i> Mill., – <i>Malus</i> Mill., – <i>Prunus</i> L. – <i>Pyrus</i> L. • Plants of <i>Eriobotrya</i> Lindl are not prohibited to be exported to certain protected zones from South Africa [Annex III(B)(1)]: <ul style="list-style-type: none"> – <i>Monilinia fructicola</i> (Winter) Honey^{1,2} are not known to occur in South Africa.
16. From 15 February to 30 September, fruits of <i>Prunus</i> L., originating in non-European countries	<p>Official statement::</p> <p>— the fruits originate in a country known to free from <i>Monilinia fructicola</i> (Winter) Honey, or</p> <p>— the fruits originate in an area recognized as being free from <i>Monilinia fructicola</i> (Winter) Honey, in accordance with the procedure referred to in Article 18(2), or</p> <p>— the fruits have been subjected to</p>	<ul style="list-style-type: none"> • <i>Monilinia fructicola</i> (Winter) Honey^{1,2} are not known to occur in South Africa.



Plants, plant products and other objects	Special requirements	Export certification guidelines
	appropriate inspection and treatment procedures prior to harvest and/or export to ensure freedom from <i>Monilinia</i> spp.	
16.1. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, originating in third countries	The fruits shall be free from peduncles and leaves and the packaging shall bear an appropriate origin mark.	• Applicable to South Africa.
16.2. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, originating in third countries	Without prejudice to the provisions applicable to the fruits in Annex IV(A)(I)(16.1), (16.3), (16.4) and (16.5), official statement that: (a) the fruits originate in a country recognized as being free from <i>Xanthomonas campestris</i> (all strains pathogenic to Citrus), in accordance with the procedure referred to in Article 18(2), or (b) the fruits originate in an area recognized as being free from <i>Xanthomonas campestris</i> (all strains pathogenic to Citrus), in accordance with the procedure referred to in Article 18(2) and mentioned on the certificates referred to in Articles 7 or 8 of this Directive, or (c) either, — in accordance with an official	• <i>Xanthomonas campestris</i>^{1;4;8} are not known to occur in South Africa

Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>control and examination regime, no symptoms of <i>Xanthomonas campestris</i> (all strains pathogenic to Citrus) have been observed in the field of production and in its immediate vicinity since the beginning of the last cycle of vegetation and none of the fruits harvested in the field of production has shown symptoms of <i>Xanthomonas campestris</i> (all strains pathogenic to Citrus), and the fruits have been subjected to treatment such as sodium orthophenylphenate, mentioned on the certificates referred to in Articles 7 or 8 of this Directive, and the fruits have been packed at premises or dispatching centres registered for this purpose, or — any certification system, recognized as equivalent to the above provisions in accordance with the procedure referred to in Article 18(2), has been complied with.</p>	
<p>16.3. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf. and their hybrids, originating in third countries</p>	<p>Without prejudice to the provisions applicable to the fruits in Annex IV(A)(I)(16.1), (16.2), (16.4) and (16.5), official statement that:</p> <p>(a) the fruits originate in a country</p>	<ul style="list-style-type: none"> • <i>Cercospora angolensis</i>^{1;2}; Carv. et Mendes are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>recognized as being free from <i>Cercospora angolensis</i> Carv. et Mendes in accordance with the procedure referred to in Article 18(2), or (b) the fruits originate in an area recognized as being free from <i>Cercospora angolensis</i> Carv. et Mendes, in accordance with the procedure referred to in Article 18(2) and mentioned on the certificates referred to in Articles 7 or 8 of this Directive, or (c) no symptoms of <i>Cercospora angolensis</i> Carv. et Mendes have been observed in the field of production and in its immediate vicinity since the beginning of the last cycle of vegetation, and none of the fruits harvested in the field of production has shown, in appropriate official examination, symptoms of this organism.</p>	
<p>16.4. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruits of <i>Citrus aurantium</i> L., originating in third countries</p>	<p>Without prejudice to the provisions applicable to the fruits in Annex IV(A)(I)(16.1), (16.2), (16.3) and (16.5), official statement that: (a) the fruits originate in a country recognized as being free from</p>	<ul style="list-style-type: none"> • <i>Guignardia citricarpa</i>^{1;2;8} Kiely (citrus black spot) does occur in certain citrus production areas in South Africa. <ul style="list-style-type: none"> – Pest free areas are regulated by the Agricultural Pest Act 36 of 1983



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p><i>Guignardia citricarpa</i> Kiely (all strains pathogenic to <i>Citrus</i>), in accordance with the procedure referred to in Article 18(2), or</p> <p>(b) the fruits originate in an area recognized as being free from <i>Guignardia citricarpa</i> Kiely (all strains pathogenic to <i>Citrus</i>), in accordance with the procedure referred to in Article 18(2), and mentioned on the certificates referred to in Articles 7 or 8 of this Directive, or</p> <p>(c) no symptoms of <i>Guignardia citricarpa</i> Kiely (all strains pathogenic to <i>Citrus</i>), have been observed in the field of production and in its immediate vicinity since the beginning of the last cycle of vegetation, and none of the fruits harvested in the field of production has shown, in appropriate official examination, symptoms of this organism, or</p> <p>(d) the fruits originate in a field of production subjected to appropriate treatments against <i>Guignardia citricarpa</i> Kiely (all strains pathogenic to <i>Citrus</i>), and none of the fruits harvested in the field of production has shown, in appropriate official examination, symptoms of this organism.</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>16.5. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, originating in third countries where <i>Tephritidae</i> (non- European) are known to occur on these fruits</p>	<p>Without prejudice to the provisions applicable to the fruits in Annex III(B)(2), (3), and Annex IV(A)(I)(16.1), (16.2) and (16.3), official statement that:</p> <p>(a) the fruits originate in areas known to be free from the relevant organism; or, if this requirement cannot be met</p> <p>(b) no signs of the relevant organism have been observed at the place of production and in its immediate vicinity since the beginning of the last complete cycle of vegetation, on official inspections carried out at least monthly during the three months prior to harvesting, and none of the fruits harvested at the place of production has shown, in appropriate official examination, signs of the relevant organism, or if this requirement can also not be met;</p> <p>(c) the fruits have shown, in appropriate official examination on representative samples, to be free from the relevant organism in all stages of their development; or, if this requirement can also not be met;</p> <p>(d) the fruits have been subjected to an appropriate treatment, any acceptable vapour heat treatment,</p>	<ul style="list-style-type: none"> • Of all the <i>Tephritidae</i> (non-European) regulated under Annex I, the following fruit flies occur in South Africa: <ul style="list-style-type: none"> – <i>Dacus ciliatus</i> Loew^{1,5} – <i>Pardalaspis (Ceratitis) quinaria</i> Bezzi^{1,5} – <i>Pterandrus (Ceratitis) rosa</i> (Karsch)^{1,5}



Plants, plant products and other objects	Special requirements	Export certification guidelines
	cold treatment, or quick freeze treatment, which has been shown to be efficient against the relevant organism without damaging the fruit, and, where not available, chemical treatment as far as it is acceptable by Community legislation.	
17. Plants of <i>Amelanchier</i> Med., <i>Chaenomeles</i> Lindl., <i>Cotoneaster</i> Ehrh., <i>Crataegus</i> L., <i>Cydonia</i> Mill., <i>Eriobotrya</i> Lindl., <i>Malus</i> Mill., <i>Mespilus</i> L., <i>Photinia davidiana</i> (Dcne.) Cardot, <i>Pyracantha</i> Roem., <i>Pyrus</i> L. and <i>Sorbus</i> L., intended for planting, other than seeds	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(9), (9.1), (18), Annex III(B)(1)(2) or Annex IV(A)(1)(15), where appropriate, official statement::</p> <p>(a) that the plants originate in countries recognised as being free from <i>Erwinia amylovora</i> (Burr.) Winsl. <i>et al.</i> in accordance with the procedure laid down in Article 18(2), or</p> <p>(b) that the plants originate in pest free areas which have been established in relation to <i>Erwinia amylovora</i> (Burr.) Winsl. <i>Et al.</i> in accordance with the relevant International Standard for Phytosanitary Measures and recognised as such in accordance with the procedure laid down in Article 18(2), or</p> <p>(c) that the plants in the field of production and in its immediate</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18): <ul style="list-style-type: none"> – <i>Chaenomeles</i> Lindl., – <i>Crataegus</i> L., – <i>Cydonia</i> Mill., – <i>Malus</i> Mill., – <i>Pyrus</i> L. • Plants of <i>Eriobotrya</i> Lindl are not prohibited to be exported to certain protected zones from South Africa [Annex III(B)(1)]: <ul style="list-style-type: none"> – <i>Monilinia fructicola</i> (Winter) Honey^{1,2} are not known to occur in South Africa. [Annex IV(A)(1)(15)]: • The following plants are not prohibited to be exported to certain protected zones from South Africa [Annex III(B)(1),(2)]: <ul style="list-style-type: none"> – <i>Amelanchier</i> Med., – <i>Cotoneaster</i> Ehrh., – <i>Eriobotrya</i> Lindl., – <i>Mespilus</i> L.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
	vicinity, which have shown symptoms of <i>Erwinia amylovora</i> (Burr.) Winsl. et al., have been removed.	<ul style="list-style-type: none"> – <i>Photinia davidiana</i> (Dcne.) Cardot, – <i>Pyracantha</i> Roem. – <i>Sorbus</i> L., – <i>Erwinia amylovora</i> (Burr.) Winsl. et al.^{1;4;8} are not known to occur in South Africa.
18. Plants of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids, other than fruit and seeds and plants of <i>Araceae</i> , <i>Marantaceae</i> , <i>Musaceae</i> , <i>Persea</i> spp. and <i>Strelitziaceae</i> , rooted or with growing medium attached or associated	<p>Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(16), where appropriate, official statement that::</p> <p>(a) the plants originate in countries known to be free from <i>Radopholus citrophilus</i> Huettel et al. and <i>Radopholus similis</i> (Cobb) Thorne; or</p> <p>(b) representative samples of soil and roots from the place of production have been subjected, since the beginning of the last complete cycle of vegetation, to official nematological testing for at least <i>Radopholus citrophilus</i> Huettel et al. and <i>Radopholus similis</i> (Cobb) Thorne and have been found, in these tests, free from those harmful organisms.</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(16)]: <ul style="list-style-type: none"> – <i>Citrus</i> L., – <i>Fortunella</i> Swingle, – <i>Poncirus</i> Raf • The following plants are not prohibited to be exported from South Africa: <ul style="list-style-type: none"> – <i>Araceae</i>, – <i>Marantaceae</i>, – <i>Musaceae</i>, – <i>Persea</i> spp., – <i>Strelitziaceae</i> – <i>Radopholus similis</i> (Cobb) Thorne^{1;6;7;8;15} (burrowing nematode) are known to occur in South Africa <p>Only <i>R. similis</i> are recognized and not <i>R. citrophilus</i> or the subspecies <i>R. similis similis</i> and <i>R. similis citrophilus</i>.</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>19.1. Plants of <i>Crataegus</i> L. intended for planting, other than seeds, originating in countries where <i>Phyllosticta solitaria</i> Ell. and Ev. is known to occur</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(9), and Annex IV(A)(I)(15) and (17), official statement that:</p> <ul style="list-style-type: none"> – no symptoms of <i>Phyllosticta solitaria</i> Ell. and Ev. have been observed on plants at the place of production since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9)]: <ul style="list-style-type: none"> – <i>Crataegus</i> L.,
<p>19.2. Plants of <i>Cydonia</i> Mill., <i>Fragaria</i> L., <i>Malus</i> Mill., <i>Prunus</i> L., <i>Pyrus</i> L., <i>Ribes</i> L., <i>Rubus</i> L. intended for planting, other than seeds, originating in countries where the relevant harmful organisms are known to occur on the genera concerned:</p> <p>The relevant harmful organisms are — on <i>Fragaria</i> L.:</p> <ul style="list-style-type: none"> • <i>Phytophthora fragariae</i> var. <i>fragariae</i> Hickman, • Arabis mosaic virus, • Raspberry ringspot virus, • Strawberry crinkle virus, • Strawberry latent ringspot virus, • Strawberry mild yellow edge virus, 	<p>Without prejudice to the provisions applicable to the plants where appropriate listed in Annex III(A)(9) and (18), and Annex IV(A)(I)(15) and (17), official statement that::</p> <ul style="list-style-type: none"> – no symptoms of diseases caused by the relevant harmful organisms have been observed on the plants at the place of production since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18)]: <ul style="list-style-type: none"> – <i>Cydonia</i> Mill., – <i>Fragaria</i> L., – <i>Malus</i> Mill., – <i>Prunus</i> L., – <i>Pyrus</i> L., • The following plants are not prohibited to be exported from South Africa: <ul style="list-style-type: none"> – <i>Ribes</i> L., – <i>Rubus</i> L. • on <i>Rubus</i> L.: <ul style="list-style-type: none"> – Arabis mosaic virus⁴ are not known to occur in South Africa;



Plants, plant products and other objects	Special requirements	Export certification guidelines
<ul style="list-style-type: none"> • Tomato black ring virus, • <i>Xanthomonas fragariae</i> Kennedy et King; — on <i>Malus</i> Mill.: <ul style="list-style-type: none"> • <i>Phyllosticta solitaria</i> Ell. and Ev.; — on <i>Prunus</i> L.: <ul style="list-style-type: none"> • Apricot chlorotic leafroll mycoplasma, • <i>Xanthomonas campestris</i> pv. <i>prunus</i> (Smith) Dye, — on <i>Prunus persica</i> (L.) Batsch: <ul style="list-style-type: none"> • <i>Pseudomonas syringae</i> pv. <i>persicae</i> (Prunier et al.) Young et al.; — on <i>Pyrus</i> L.: <ul style="list-style-type: none"> • <i>Phyllosticta solitaria</i> Ell. and Ev.; — on <i>Rubus</i> L.: <ul style="list-style-type: none"> • Arabis mosaic virus, • Raspberry ringspot virus, • Strawberry latent ringspot virus, • Tomato black ring virus, — on all species: <ul style="list-style-type: none"> • non-European viruses and virus like organisms. 		<ul style="list-style-type: none"> – Raspberry ringspot virus^{1;4;25} are not known to occur in South Africa; – Strawberry latent ringspot virus^{1;4;28} are not known to occur in South Africa; – Tomato black ring virus^{1;4;30} are not known to occur in South Africa
20. Plants of <i>Cydonia</i> Mill. and <i>Pyrus</i> L. intended for planting, other than seeds, originating in countries where Pear decline mycoplasma is known to occur	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(9) and (18), and Annex IV(A)(1)(15), (17) and (19.2) official statement that: <ul style="list-style-type: none"> – plants at the place of production 	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18)]: <ul style="list-style-type: none"> – <i>Crataegus</i> L., – <i>Pyrus</i> L.



Plants, plant products and other objects	Special requirements	Export certification guidelines
	and in its immediate vicinity, which have shown symptoms giving rise to the suspicion of contamination by Pear decline mycoplasma, have been rouged out at that place within the last three complete cycles of vegetation.	
<p>21.1. Plants of <i>Fragaria</i> L. intended for planting, other than seeds, originating in countries where the relevant harmful organisms are known to occur</p> <p>The relevant harmful organisms are: — Strawberry latent 'C' virus, — Strawberry vein banding virus, — Strawberry witches' broom mycoplasma</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(18), and Annex IV(A)(I)(19.2), official statement that:</p> <p>(a) the plants, other than those raised from seed, have been: — either officially certified under a certification scheme requiring them to be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and has been found free, in these tests, from those harmful organisms, or — derived in direct line from material which is maintained under appropriate conditions and has been subjected, within the last three complete cycles of vegetation, at least once, to official testing for at least the relevant harmful</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(18)]: <ul style="list-style-type: none"> – <i>Fragaria</i> L.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>organisms using appropriate indicators or equivalent methods and has been found free, in these tests, from those harmful organisms,</p> <p>(b) no symptoms of diseases caused by the relevant harmful organisms have been observed on plants at the place of production, or on susceptible plants in its immediate vicinity, since the beginning of the last complete cycle of vegetation.</p>	
<p>21.2. Plants of <i>Fragaria</i> L. intended for planting, other than seeds, originating in countries where <i>Aphelenchoides besseyi</i> Christie is known to occur</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(18), and Annex IV(A)(I)(19.2) and (21.1), official statement that:</p> <p>(a) either no symptoms of <i>Aphelenchoides besseyi</i> Christie have been observed on plants at the place of production since the beginning of the last complete cycle of vegetation, or</p> <p>(b) in the case of plants in tissue culture the plants have been derived from plants which complied with section (a) of this item or have been officially tested by appropriate nematological methods and have been found free from <i>Aphelenchoides besseyi</i> Christie.</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(18)]: <ul style="list-style-type: none"> – <i>Fragaria</i> L.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>21.3. Plants of <i>Fragaria</i> L., intended for planting, other than seeds</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(18), and Annex IV(A)(I)(19.2), (21.1) and (21.2), official statement that:</p> <ul style="list-style-type: none"> – the plants originate in an area known to be free from <i>Anthonomus signatus</i> Say and <i>Anthonomus bisignifer</i> (Schenkling). 	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(18)]: <ul style="list-style-type: none"> – <i>Fragaria</i> L.,
<p>22.1. Plants of <i>Malus</i> Mill. intended for planting, other than seeds, originating in countries where the relevant harmful organisms are known to occur on <i>Malus</i> Mill.</p> <p>The relevant harmful organisms are: — Cherry rasp leaf virus (American), — Tomato ringspot virus,</p>	<p>Without prejudice to the provisions applicable to the plants, listed in Annex III(A)(9) and (18), Annex III(B)(1) and Annex IV(A)(I)(15), (17) and (19.2), official statement that:</p> <p>(a) the plants have been:</p> <ul style="list-style-type: none"> — either officially certified under a certification scheme requiring them to be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and has been found free, in these test, from those harmful organisms, or — derived in direct line from material 	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18)]: <ul style="list-style-type: none"> – <i>Malus</i> Mill.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>which is maintained under appropriate conditions and subjected, within the last three complete cycles of vegetation, at least once, to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and has been found free, in these tests, from those harmful organisms;</p> <p>(b) no symptoms of diseases caused by the relevant harmful organisms have been observed on plants at the place of production, or on susceptible plants in its immediate vicinity, since the beginning of the last complete cycle of vegetation.</p>	
<p>22.2. Plants of <i>Malus</i> Mill., intended for planting, other than seeds, originating in countries where apple proliferation mycoplasma is known to occur</p>	<p>Without prejudice to the provisions applicable to the plants, listed in Annex III(A)(9) and (18), Annex III(B)(1) and Annex IV(A)(I)(15), (17), (19.2) and (22.1), official statement that:</p> <p>(a) the plants originate in areas known to be free from apple proliferation mycoplasma; or</p> <p>(b) (aa) the plants, other than those raised from seeds, have been: — either officially certified under a certification scheme requiring them to</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9), (18)]: <ul style="list-style-type: none"> – <i>Malus</i> Mill.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for at least Apple proliferation mycoplasma using appropriate indicators or equivalent methods and has been found free, in these tests, from that harmful organism, or</p> <p>— derived in direct line from material which is maintained under appropriate conditions and subjected, within the last six complete cycles of vegetation, at least once, to official testing for at least Apple proliferation mycoplasma using appropriate indicators or equivalent methods and has been found free, in these tests, from the harmful organism,</p> <p>(bb) no symptoms of diseases caused by Apple proliferation mycoplasma have been observed on plants at the place of production, or on susceptible plants in its immediate vicinity, since the beginning of the last complete three cycles of vegetation.</p>	
<p>23.1. Plants of following species of <i>Prunus</i> L., intended for planting, other than seeds, originating in countries where Plum pox virus is known to occur:</p> <p>— <i>Prunus amygdalus</i> Batsch,</p>	<p>Without prejudice to the provisions applicable to the plants, listed in Annex III(A)(9) and (18), and Annex IV(A)(1)(15) and (19.2), official statement that:</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9),(18)]: <ul style="list-style-type: none"> – <i>Prunus</i> L.,



Plants, plant products and other objects	Special requirements	Export certification guidelines
<ul style="list-style-type: none"> — <i>Prunus armeniaca</i> L., — <i>Prunus blireiana</i> Andre, — <i>Prunus brigantina</i> Vill., — <i>Prunus cerasifera</i> Ehrh., — <i>Prunus cistena</i> Hansen, — <i>Prunus curdica</i> Fenzl and Fritsch., — <i>Prunus domestica</i> ssp. <i>domestica</i> L., — <i>Prunus domestica</i> ssp. <i>insititia</i> (L.) C.K. Schneid., — <i>Prunus domestica</i> ssp. <i>italica</i> (Borkh.) Hegi., — <i>Prunus glandulosa</i> Thunb., — <i>Prunus holosericea</i> Batal., — <i>Prunus hortulana</i> Bailey, — <i>Prunus japonica</i> Thunb., — <i>Prunus mandshurica</i> (Maxim.) Koehne, — <i>Prunus maritima</i> Marsh., — <i>Prunus mume</i> Sieb and Zucc., — <i>Prunus nigra</i> Ait., — <i>Prunus persica</i> (L.) Batsch, — <i>Prunus salicina</i> L., — <i>Prunus sibirica</i> L., — <i>Prunus simonii</i> Carr., — <i>Prunus spinosa</i> L., — <i>Prunus tomentosa</i> Thunb., — <i>Prunus triloba</i> Lindl., — other species of <i>Prunus</i> L. susceptible to Plum pox virus. 	<p>(a) the plants, other than those raised from seed, have been:</p> <p>— either officially certified under a certification scheme requiring them to be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for, at least, Plum pox virus using appropriate indicators or equivalent methods and has been found free, in these tests, from that harmful organism,</p> <p>or</p> <p>— derived in direct line from material which is maintained under appropriate conditions and has been subjected, within the last three complete cycles of vegetation, at least once, to official testing for at least Plum pox virus using appropriate indicators or equivalent methods and has been found free, in these tests, from that harmful organism;</p> <p>(b) no symptoms of disease caused by Plum pox virus have been observed on plants at the place of production or on susceptible plants in its immediate vicinity, since the beginning of the last three complete cycles of vegetation</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	(c) plants at the place of production which have shown symptoms of disease caused by other viruses or virus-like pathogens, have been rouged out.	
<p>23.2. Plants of <i>Prunus</i> L., intended for planting</p> <p>(a) originating in countries where the relevant harmful organisms are known to occur on <i>Prunus</i> L.</p> <p>(b) other than seeds, originating in countries where the relevant harmful organisms are known to occur</p> <p>(c) other than seeds, originating in non-European countries where the relevant harmful organisms are known to occur</p> <p>The relevant harmful organisms are:</p> <p>— for the case under (a):</p> <ul style="list-style-type: none"> • Tomato ringspot virus; <p>— or the case under (b):</p> <ul style="list-style-type: none"> • Cherry rasp leaf virus (American), • Peach mosaic virus (American), • Peach phony rickettsia, • Peach rosette mycoplasma, • Peach yellows mycoplasma, • Plum line pattern virus (American), • Peach X-disease mycoplasma; <p>— or the case under (c):</p>	<p>Without prejudice to the provisions applicable to the plants, where appropriate listed in Annex III(A)(9) and (18) or Annex IV(A)(I)(15), (19.2) and (23.1), official statement that:</p> <p>(a) the plants have been:</p> <p>— either officially certified under a certification scheme requiring them to be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and has been found free, in these tests, from those harmful organisms, or</p> <p>— derived in direct line from material which is maintained under appropriate conditions and has been subjected, within the last three complete cycles of vegetation, at least once, to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(9),(18)]: <ul style="list-style-type: none"> – <i>Prunus</i> L.



Plants, plant products and other objects	Special requirements	Export certification guidelines
<ul style="list-style-type: none"> Little cherry pathogen. 	<p>has been found free, in these tests, from those harmful organisms,</p> <p>(b) no symptoms of diseases caused by the relevant harmful organisms have been observed on plants at the place of production or on susceptible plants in its immediate vicinity, since the beginning of the last three complete cycles of vegetation.</p>	
<p>24. Plants of <i>Rubus</i> L., intended for planting:</p> <p>(a) originating in countries where harmful organisms are known to occur on <i>Rubus</i> L.</p> <p>(b) other than seeds, originating in countries where the relevant harmful organisms are known to occur</p> <p>The relevant harmful organisms are:</p> <p>— in the case of (a):</p> <ul style="list-style-type: none"> Tomato ringspot virus, Black raspberry latent virus, Cherry leafroll virus, Prunus necrotic ringspot virus, <p>— in the case of (b):</p> <ul style="list-style-type: none"> Raspberry leaf curl virus (American) Cherry rasp leaf virus (American) 	<p>Without prejudice to the requirements applicable to the plants, listed in Annex IV(A)(I)(19.2),</p> <p>(a) the plants shall be free from aphids, including their eggs</p> <p>(b) official statement that:</p> <p>(aa) the plants have been:</p> <p>— either officially certified under a certification scheme requiring them to be derived in direct line from material which has been maintained under appropriate conditions and subjected to official testing for at least the relevant harmful organisms using appropriate indicators or equivalent methods and has been found free, in these tests, from those harmful organism, or</p> <p>— derived in direct line from material</p>	<ul style="list-style-type: none"> The relevant harmful organisms are: <p>— in the case of (a):</p> <ul style="list-style-type: none"> Tomato ringspot virus^{1,4,8} are not known to occur in South Africa; Black raspberry latent virus^{1;4} (Tobacco streak virus) are known to occur in South Africa Cherry leafroll virus^{1;4} are not known to occur in South Africa; Prunus necrotic ringspot virus^{1;4} are known to occur in South Africa <p>— in the case of (b):</p> <ul style="list-style-type: none"> Raspberry leaf curl virus^{1,4,8} are not known to occur in South Africa Cherry rasp leaf virus^{1,4,8} are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>which is maintained under appropriate conditions and has been subjected, within the last three complete cycles of vegetation, at least once, to official testing for at least relevant harmful organisms using appropriate indicators for equivalent methods and has been found free, in these tests, from those harmful organism</p> <p>(bb) no symptoms of diseases caused by the relevant harmful organisms have been observed on plants at the place of production, or on susceptible plants in its immediate vicinity, since the beginning of the last complete cycles of vegetation.</p>	
<p>25.1. Tubers of <i>Solanum tuberosum</i> L., originating in countries where <i>Synchytrium endobioticum</i> (Schilbersky) Percival is known to occur</p>	<p>Without prejudice to the prohibitions applicable to the tubers listed in Annex III(A)(10), (11) and (12), official statement that:</p> <p>(a) the tubers originate in areas known to be free from <i>Synchytrium endobioticum</i> (Schilbersky) Percival (all races other than Race 1, the common European race), and no symptoms of <i>Synchytrium endobioticum</i> (Schilbersky) Percival have been observed either at the place of production or in its immediate vicinity since the beginning of an</p>	<ul style="list-style-type: none">• Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III(A)(10),(11) and (12)]



Plants, plant products and other objects	Special requirements	Export certification guidelines
	adequate period; or (b) provisions recognised as equivalent to the Community provisions on combating <i>Synchytrium endobioticum</i> (Schilbersky) Percival in accordance with the procedure referred to in Article 18(2) have been complied with, in the country of origin	
25.2. Tubers of <i>Solanum tuberosum</i> L.	Without prejudice to the provisions listed in Annex III (A)(10), (11) and (12) and Annex IV(A)(I)(25.1), official statement that: (a) the tubers originate in countries known to be free from <i>Clavibacter michiganensis</i> ssp. <i>sepedonicus</i> (Spieckermann and Kotthoff) Davis <i>et al.</i> ; or (b) provisions recognised as equivalent to the Community provisions on combating <i>Clavibacter michiganensis</i> ssp. <i>Sepedonicus</i> (Spieckermann and Kotthoff) Davis <i>et al.</i> in accordance with the procedure referred to in Article 18(2), have been complied with, in the country of origin.	<ul style="list-style-type: none"> • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III(A)(10),(11) and (12)]
25.3. Tubers of <i>Solanum tuberosum</i> L. , other than early potatoes, originating in countries where Potato spindle tuber viroid is known to occur	Without prejudice to the provisions applicable to the tubers listed in Annex III(A)(10), (11) and (12) and Annex IV (A)(I)(25.1) and (25.2), suppression of the faculty of	<ul style="list-style-type: none"> • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III(A)(10),(11) and (12)]



Plants, plant products and other objects	Special requirements	Export certification guidelines
	germination	
25.4. Tubers of <i>Solanum tuberosum</i> L. , intended for planting	<p>Without prejudice to the provisions applicable to the tubers listed in Annex III(A)(10), (11) and (12) and Annex IV (A)(I)(25.1), (25.2) and (25.3), official statement that::</p> <ul style="list-style-type: none"> – the tubers originate from a field known to be free from <i>Globodera rostochiensis</i> (Wollenweber) Behrens and <i>Globodera pallida</i> (Stone) Behrens, and <p>(aa) either, the tubers originate in areas in which <i>Pseudomonas solanacearum</i> (Smith) Smith is known not to occur; or</p> <p>(bb) in areas where <i>Pseudomonas solanacearum</i> (Smith) Smith is known to occur, the tubers originate from a place of production found free from <i>Pseudomonas solanacearum</i> (Smith) Smith, or considered to be free thereof, as a consequence of the implementation of an appropriate procedure aiming at eradicating <i>Pseudomonas solanacearum</i> (Smith) Smith which shall be determined in accordance with the procedure referred to in Article 18(2), and</p> <p>(cc) either the tubers originate in</p>	<ul style="list-style-type: none"> • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III(A)(10),(11) and (12)]



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>areas where <i>Meloidogyne chitwoodi</i> Golden <i>et al.</i> (all populations) and <i>Meloidogyne fallax</i> Karssen are known not to occur; or (dd) in areas where <i>Meloidogyne chitwoodi</i> Golden <i>et al.</i> (all populations) and <i>Meloidogyne fallax</i> Karssen are known to occur, — either the tubers originate from a place of production which has been found free from <i>Meloidogyne chitwoodi</i> Golden <i>et al.</i> (all populations), and <i>Meloidogyne fallax</i> Karssen based on an annual survey of host crops by visual inspection of host plants at appropriate times and by visual inspection both externally and by cutting of tubers after harvest from potato crops grown at the place of production, or — the tubers after harvest have been randomly sampled and, either checked for the presence of symptoms after an appropriate method to induce symptoms, or laboratory tested, as well as inspected visually both externally and by cutting the tubers, at appropriate times and in all cases at the time of closing of the packages or containers before marketing according to the provisions</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	on closing in Council Directive 66/403/EEC of 14 June 1996 on the marketing of seed potatoes ⁽¹⁾ and no symptoms of <i>Meloidogyne chitwoodi</i> Golden <i>et al.</i> (all populations) and <i>Meloidogyne fallax</i> Karssen have been found.	
25.5. Plants of Solanaceae , intended for planting, other than seeds, originating in countries where Potato stolbur mycoplasma is known to occur	Without prejudice to the provisions applicable to tubers listed in Annex III(A)(10), (11), (12) and (13), and Annex IV(A)(I)(25.1), (25.2), (25.3) and (25.4), Official statement that: <ul style="list-style-type: none"> no symptoms of Potato stolbur mycoplasma have been observed on the plants at the place of production since the beginning of the last complete cycle of vegetation. 	<ul style="list-style-type: none"> Plants of Solanaceae are prohibited to be exported from South Africa [Annex III(A)(10), (11), (12) and (13)]
25.6. Plants of Solanaceae , intended for planting, other than tubers of <i>Solanum tuberosum</i> L. and other than seeds of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw., originating in countries where Potato spindle tuber viroid is known to occur	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(11), (13), and Annex IV(A)(I)(25.5) , where appropriate, official statement that: <ul style="list-style-type: none"> no symptoms of Potato spindle tuber viroid have been observed on plants at the place of production since the beginning of the last complete cycle of vegetation 	<ul style="list-style-type: none"> Plants of Solanaceae are prohibited to be exported from South Africa [Annex III(A)(11) and (13)]



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>25.7. Plants of <i>Capsicum annuum</i> L., <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw., <i>Musa</i> L., <i>Nicotiana</i> L. and <i>Solanum melongena</i> L., intended for planting other than seeds, originating in countries where <i>Pseudomonas solanacearum</i> (Smith) Smith is known to occur</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(11) and (13), and Annex IV(A)(I)(25.5) and (25.6), where appropriate, official statement that:</p> <p>(a) the plants originate in areas which have been found free from <i>Pseudomonas solanacearum</i> (Smith) Smith; or</p> <p>(b) no symptoms of <i>Pseudomonas solanacearum</i> (Smith) Smith have been observed on the plants at the place of production since the beginning of the last complete cycle of vegetation.</p>	<ul style="list-style-type: none"> • The following plants are prohibited to be exported from South Africa [Annex III(A)(11) and (13)], <ul style="list-style-type: none"> – <i>Capsicum annuum</i> L., – <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw., – <i>Nicotiana</i> L., – <i>Solanum melongena</i> L. • Plants of <i>Musa</i> L. are allowed to be exported from South Africa: <ul style="list-style-type: none"> – <i>Pseudomonas (Ralstonia) solanacearum</i> race 1^{1,4,8} are known to occur on South Africa – <i>Pseudomonas (Ralstonia) solanacearum</i> race 2^{1,4,8} are not known to occur in South Africa – <i>Pseudomonas (Ralstonia) solanacearum</i> race 3^{1,4,8} are known to occur in South Africa
<p>25.8. Tubers of <i>Solanum tuberosum</i> L., other than those intended for planting</p>	<p>Without prejudice to the provisions applicable to tubers listed in Annex III(A)(12) and Annex IV(A)(I)(25.1), (25.2) and (25.3), Official statement that:</p> <ul style="list-style-type: none"> – the tubers originate in areas in which <i>Pseudomonas solanacearum</i> (Smith) Smith is not known to occur. 	<ul style="list-style-type: none"> • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III(A)(12)]
<p>26. Plants of <i>Humulus lupulus</i> L. intended for planting, other than seeds</p>	<p>Official statement that:</p> <ul style="list-style-type: none"> – no symptoms of <i>Verticillium</i> 	<ul style="list-style-type: none"> • <i>Verticillium albo-atrum</i> Reinke and Berthold^{1;2;8} [<i>Verticillium albo-atrum</i>]

Plants, plant products and other objects	Special requirements	Export certification guidelines
	<i>albo-atrum</i> Reinke and Berthold and <i>Verticillium dahliae</i> Klebahn have been observed on hops at the place of production since the beginning of the last complete cycle of vegetation.	hop strains Reinke & Berthold] (verticillium wilt of hop) are not known to occur in South Africa <ul style="list-style-type: none"> • <i>Verticillium dahliae</i> Klebahn^{1;2;8} [<i>Verticillium dahliae</i> hop strains Klebahn] (verticillium wilt of hop) are not known to occur in South Africa
27.1. Plants of <i>Dendranthema</i> (DC.) Des Moul., <i>Dianthus</i> L. and <i>Pelargonium</i> l'Herit. ex Ait., intended for planting, other than seeds	Official statement that: (a) no signs of <i>Heliothis armigera</i> Hübner, or <i>Spodoptera littoralis</i> (Boise.) have been observed at the place of production since the beginning of the last complete cycle of vegetation, or (b) the plants have undergone appropriate treatment to protect them from the said organisms.	<ul style="list-style-type: none"> • <i>Heliothis (Helicoverpa) armigera</i> (Hübner)^{1,8} are known to occur in South Africa • <i>Spodoptera littoralis</i> (Boisduval)^{1,8} are known to occur in South Africa
27.2. Plants of <i>Dendranthema</i> (DC.) Des Moul., <i>Dianthus</i> L. and <i>Pelargonium</i> l'Herit. ex Ait., other than seeds	Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I)(27.1), (a) no signs of <i>Spodoptera eridania</i> Cramer, <i>Spodoptera frugiperda</i> Smith, or <i>Spodoptera litura</i> (Fabricius) have been observed at the place of production since the beginning of the last complete cycle of vegetation, or (b) the plants have undergone	<ul style="list-style-type: none"> • <i>Spodoptera eridania</i> (Cramer)^{1,8} are not known to occur in South Africa • <i>Spodoptera frugiperda</i> (Smith)^{1,8} are not known to occur in South Africa • <i>Spodoptera litura</i> (Fabricius)^{1,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	appropriate treatment to protect them from the said organisms.	
28. Plants of <i>Dendranthema</i> (DC.) Des Moul., intended for planting, other than seeds	<p>Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I)(27.1) and (27.2), official statement that::</p> <p>(a) the plants are no more than third generation stock derived from material which has been found to be free from Chrysanthemum stunt viroid during virological tests, or are directly derived from material of which a representative sample of at least 10% has been found to be free from Chrysanthemum stunt viroid during an official inspection carried out at the time of flowering;</p> <p>(b) the plants or cuttings: — have come from premises which have been officially inspected at least monthly, during the three months prior to dispatch and on which no symptoms of <i>Puccinia horiana</i> Hennings have been known to have observed during that period, and in the immediate vicinity of which no symptoms of <i>Puccinia horiana</i> Hennings have been known to have occurred during the three months prior to export, or</p>	<ul style="list-style-type: none"> • Chrysanthemum stunt viroid ^{1;4;8} are known to occur in South Africa • <i>Puccinia horiana</i> Hennings ^{1;2;8} (white rust of chrysanthemum) are known to occur in South Africa • <i>Didymella ligulicola</i> (Baker, Dimock and Davis) v. Arx ² (ray blight of chrysanthemum) are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>— have undergone appropriate treatment against <i>Puccinia horiana</i> Hennings;</p> <p>(c) in the case of unrooted cuttings, no symptoms of <i>Didymella ligulicola</i> (Baker, Dimock and Davis) v. Arx were observed either on the cuttings or on the plants from which the cuttings were derived, or that, in case of rooted cuttings, no symptoms of <i>Didymella ligulicola</i> (Baker, Dimock and Davis) v. Arx were observed either on the cuttings or on the rooting bed.</p>	
<p>29. Plants of <i>Dianthus</i> L., intended for planting, other than seeds</p>	<p>Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I)(27.1) and (27.2), official statement that::</p> <p>— the plants have been derived in direct line from mother plants which have been found free from <i>Erwinia chrysanthemi pv. dianthicola</i> (Hellmers) Dickey, <i>Pseudomonas caryophylli</i> (Burkholder) Starr and Burkholder and <i>Phialophora cinerescens</i> (Wollenw.) Van Beyma on officially approved tests, carried out at least once within the two previous years,</p> <p>— no symptoms of the above harmful</p>	<ul style="list-style-type: none"> • <i>Erwinia chrysanthemi pv. dianthicola</i> (Hellmers) Dickey ^{1;4;8} are not known to occur in South Africa • <i>Pseudomonas caryophylli</i> (Burkholder) Starr and Burkholder ^{1;4;8} are not known to occur in South Africa • <i>Phialophora cinerescens</i> (Wollenweber) van Beyma ^{1;2;8} are not known to occur in South Africa

Plants, plant products and other objects	Special requirements	Export certification guidelines
	organisms have been observed on the plants.	
30. Bulbs of <i>Tulipa</i> L. and <i>Narcissus</i> L. , other than those for which there shall be evidence by their packaging, or by other means, that they are intended for sale to final consumers not involved in professional cut flower production	Official statement that: – no symptoms of <i>Ditylenchus dipsaci</i> (Kühn) Filipjev have been observed on the plants since the beginning of the last complete cycle of vegetation.	<ul style="list-style-type: none"> • <i>Ditylenchus dipsaci</i> (Kühn) Filipjev^{1;6;7;8} (stem and bulb nematode) are known to occur in South Africa
31. Plants of <i>Pelargonium</i> L'Herit. ex Ait. , intended for planting, other than seeds, originating in countries where Tomato ringspot virus is known to occur: (a) where <i>Xiphinema americanum</i> Cobb <i>sensu lato</i> (non-European populations) or other vectors of Tomato ringspot virus are not known to occur (b) where <i>Xiphinema americanum</i> Cobb <i>sensu lato</i> (non-European populations) or other vectors of Tomato ringspot virus are known to occur	Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I)(27.1 and) (27.2), official statement that the plants: (a) are directly derived from places of production known to be free from Tomato ringspot virus; or (b) are of no more than fourth generation stock, derived from mother plants found to be free from Tomato ringspot virus under an official approved system of virological testing. official statement that the plants: (a) are directly derived from places of production known to be free from Tomato ringspot virus in the soil or plants; or (b) are of no more than second	<ul style="list-style-type: none"> • Not applicable to South Africa – Tomato ringspot virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	generation stock, derived from mother plants found to be free from Tomato ringspot virus under an officially approved system of virological testing.	
32.1. Plants of herbaceous species, intended for planting, other than: <ul style="list-style-type: none"> — bulbs, — corms, — plants of the family Gramineae, — rhizomes, — seeds, — tubers, originating in third countries where <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch) are known to occur	<p>Without prejudice to the requirements applicable to the plants in Annex IV, Part A, Section I(27.1), (27.2), (28) and (29), where appropriate, official statement that:</p> <ul style="list-style-type: none"> – the plants have been grown in nurseries and: <p>(a) originate in an area, established in the country of export by the national plant protection service in that country, as being free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch) in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric ‘Additional declaration’, or</p> <p>(b) originate in a place of production, established in the country of export by the national plant protection service in that country, as being free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch) in accordance with relevant International Standards for Phytosanitary</p>	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – <i>Liriomyza sativae</i> Blanchard¹ are not known to occur in South Africa – <i>Amauromyza maculosa</i> (Malloch)¹ are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric 'Additional declaration', and declared free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch) on official inspections carried out at least monthly during the three months prior to export, or</p> <p>(c) immediately prior to export, have been subjected to an appropriate treatment against <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch) and have been officially inspected and found free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch). Details of the treatment shall be mentioned on the certificates referred to in Articles 7 or 8 of this Directive.</p>	
<p>32.2. Cut flowers of <i>Dendranthema</i> (DC) Des. Moul., <i>Dianthus</i> L., <i>Gypsophila</i> L. and <i>Solidago</i> L., and leafy vegetables of <i>Apium graveolens</i> L. and <i>Ocimum</i> L.</p>	<p>Official statement that the cut flowers and the leafy vegetables:</p> <p>— originate in a country free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza maculosa</i> (Malloch), or</p> <p>— immediately prior to their export, have been officially inspected and found free from <i>Liriomyza sativae</i> (Blanchard) and <i>Amauromyza</i></p>	<ul style="list-style-type: none"> • <i>Liriomyza sativae</i> Blanchard¹ are not known to occur in South Africa • <i>Amauromyza maculosa</i> (Malloch)¹ are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<i>maculosa</i> (Malloch).	
32.3. Plants of herbaceous species, intended for planting, other than: — bulbs, — corms, — plants of the family Gramineae, — rhizomes, — seeds, — tubers, originating in third countries	Without prejudice to the requirements applicable to the plants in Annex IV, Part A, Section I(27.1), (27.2), (28), (29) and (32.1), official statement that: (a) the plants originate in an area known to be free from <i>Liriomyza huidobrensis</i> (Blanchard) and <i>Liriomyza trifolii</i> (Burgess), or (b) either no signs of <i>Liriomyza huidobrensis</i> (Blanchard) and <i>Liriomyza trifolii</i> (Burgess) have been observed at the place of production, on official inspections carried out at least monthly during the three months prior to harvesting, or (c) immediately prior to export, the plants have been officially inspected and found free from <i>Liriomyza huidobrensis</i> (Blanchard) and <i>Liriomyza trifolii</i> (Burgess) and have been subjected to an appropriate treatment against <i>Liriomyza huidobrensis</i> (Blanchard) and <i>Liriomyza trifolii</i> (Burgess).	<ul style="list-style-type: none"> • <i>Liriomyza huidobrensis</i> (Blanchard)¹ (serpentine leafminer) are known to occur in South Africa • <i>Liriomyza trifolii</i> (Burgess)^{1;8} (American serpentine leafminer) are known to occur in south Africa
33. Plants with roots, planted or intended for planting, grown in the open air	Official statement that: — the place of production is known to be free from <i>Clavibacter michiganensis</i> ssp. <i>sepedonicus</i> (Spieckermann and	<ul style="list-style-type: none"> • <i>Clavibacter michiganensis</i> ssp. <i>sepedonicus</i>^{1,4,8} (Spieckermann and Kotthoff) Davis <i>et al.</i> are not known to occur in South Africa • <i>Globodera pallida</i>^{1,6,7,8} (Stone)



Plants, plant products and other objects	Special requirements	Export certification guidelines
	Kotthoff) Davis <i>et al.</i> , <i>Globodera pallida</i> (Stone) Behrens, <i>Globodera rostochiensis</i> (Wollenweber) Behrens and <i>Synchytrium endobioticum</i> (Schilbersky) Percival	<p>Behrens are not known to occur in South Africa</p> <ul style="list-style-type: none"> • <i>Globodera rostochiensis</i>^{1,6,7,8} (Wollenweber) Behrens are known to occur in South Africa • <i>Synchytrium endobioticum</i>^{1,2,8} (Schilbersky) Percival are known to occur in South Africa
<p>34. Soil and growing medium, attached to or associated with plants, consisting in whole or in part of soil or solid organic substances such as parts of plants, humus including peat or bark or consisting in part of any solid inorganic substance, intended to sustain the vitality of the plants, originating in:</p> <ul style="list-style-type: none"> — Turkey, — Belarus, Georgia, Moldova, Russia, Ukraine, — non-European countries, other than Algeria, Egypt, Israel, Libya, Morocco, Tunisia 	<p>Official statement that:</p> <p>(a) the growing medium, at the time of planting, was:</p> <ul style="list-style-type: none"> — either free from soil, and organic matter, or — found free from insects and harmful nematodes and subjected to appropriate examination or heat treatment or fumigation to ensure that it was free from other harmful organisms, or — subjected to appropriate heat treatment or fumigation to ensure freedom from harmful organisms, and <p>(b) since planting:</p> <ul style="list-style-type: none"> — either appropriate measures have been taken to ensure that the growing medium has been maintained free from harmful organisms, or — within two weeks prior to dispatch, 	<ul style="list-style-type: none"> • Applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	the plants were shaken free from the medium leaving the minimum amount necessary to sustain vitality during transport, and, if replanted, the growing medium used for that purpose meets the requirements laid down in (a).	
35.1. Plants of <i>Beta vulgaris</i> L. intended for planting, other than seeds	Official statement that: – no symptoms of Beet curly top virus (non-European isolates) have been observed at the place of production since the beginning of the last complete cycle of vegetation.	<ul style="list-style-type: none"> • Beet curly top virus^{1;4} are not known to occur in South Africa
35.2. Plants of <i>Beta vulgaris</i> L. intended for planting, other than seeds, originating in countries where Beet leaf curl virus is known to occur	Without prejudice to the requirements applicable the plants listed in Annex IV(A)(I)(35.1), official statement that: (a) Beet leaf curl virus has not been known to occur in the area of production; and (b) no symptoms of Beet leaf curl virus have been observed at the place or production or in its immediate vicinity since the beginning of the last complete cycle of vegetation.	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – Beet leaf curl virus^{1;4;8} are not known to occur in South Africa
36.1. Plants, intended for planting, other than: — bulbs, — corms, — rhizomes,	Without prejudice to the requirements applicable to the plants in Annex IV, Part A, Section I(27.1), (27.2), (28), (29), (31), (32.1) and (32.3), official statement that:	<ul style="list-style-type: none"> • <i>Thrips palmi</i> Karny¹ are not known to occur in South Africa

Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>— seeds, — tubers, originating in third countries</p>	<p>– the plants have been grown in nurseries and: (a) originate in an area, established in the country of export by the national plant protection service in that country, as being free from <i>Thrips palmi</i> Karny in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric ‘Additional declaration’, or (b) originate in a place of production, established in the country of export by the national plant protection service in that country, as being free from <i>Thrips palmi</i> Karny in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric ‘Additional declaration’, and declared free from <i>Thrips palmi</i> Karny on official inspections carried out at least monthly during the three months prior to export, or (c) immediately prior to export, have been subjected to an appropriate treatment against <i>Thrips palmi</i> Karny</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	and have been officially inspected and found free from <i>Thrips palmi</i> Karny. Details of the treatment shall be mentioned on the certificates referred to in Article 7 or 8 of this Directive.	
36.2. Cut flowers of Orchidaceae and fruits of <i>Momordica</i> L. and <i>Solanum melongena</i> L., originating in third countries	Official statement that the cut flowers and the fruits: — originate in a country free from <i>Thrips palmi</i> Karny, or — immediately prior to their export, have been officially inspected and found free from <i>Thrips palmi</i> Karny.	<ul style="list-style-type: none"> • <i>Thrips palmi</i> Karny¹ are not known to occur in South Africa
37. Plants of Palmae intended for planting other than seeds, originating in non-European countries	Without prejudice to the prohibitions applicable to the plants listed in Annex III(A)(17), where appropriate, official statement that:: (a) either the plants originate in an area known to be free from Palm lethal yellowing mycoplasma and Cadang-Cadang viroid , and no symptoms have been observed at the place of production or in its immediate vicinity since the beginning of the last complete cycle of vegetation; or (b) no symptoms of Palm lethal yellowing mycoplasma and Cadang-Cadang viroid have been observed on the plants since the beginning of the last complete cycle of vegetation, and plants at the place of production	<ul style="list-style-type: none"> • No plants of Palmae are prohibited to be exported from South Africa [Annex III(A)(17)] • Palm lethal yellowing mycoplasma^{1;4;19} [palm lethal yellowing phytoplasma] are not known to occur in South Africa • Cadang-Cadang viroid^{1;4;8} [Coconut cadang-cadang viroid] are not known to occur in South Africa • <i>Myndus crudus</i> Van Duzee^{1,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>which have shown symptoms giving rise to the suspicion of contamination by the organisms have been rouged out at that place and the plants have undergone appropriate treatment to rid them of <i>Myndus crudus</i> Van Duzee;</p> <p>(c) in the case of plants in tissue culture, the plants were derived from plants which have met the requirements laid down in (a) or (b)</p>	
38.1. Plants of <i>Camellia</i> L. intended for planting, other than seeds, originating in non-European countries	<p>Official statement that:</p> <p>(a) the plants originate in areas known to be free from <i>Ciborinia camelliae</i> Kohn; or</p> <p>(b) no symptoms of <i>Ciborinia camelliae</i> Kohn have been observed on plants in flower on the place of production since the beginning of the last complete cycle of vegetation.</p>	<ul style="list-style-type: none"> • <i>Ciborinia camelliae</i> Kohn^{1;2;8} are not known to occur in South Africa
38.2. Plants of <i>Fuchsia</i> L. intended for planting, other than seeds, originating in the USA or Brazil	<p>Official statement that:</p> <ul style="list-style-type: none"> – no symptoms of <i>Aculops fuchsiae</i> Keifer have been observed at the place of production and that immediately prior to export the plants have been inspected and found free from <i>Aculops fuchsiae</i> Keifer. 	<ul style="list-style-type: none"> • Not applicable to South Africa
39. Trees and shrubs, intended for planting, other than seeds and plants in	Without prejudice to the provisions applicable to the plants listed in Annex	<ul style="list-style-type: none"> • Applicable to South Africa • The following are prohibited to be

Plants, plant products and other objects	Special requirements	Export certification guidelines
tissue culture, originating in third countries other than European and Mediterranean countries	<p>III(A)(1), (2), (3), (9), (13), (15), (16), (17), (18), Annex III(B)(1) and Annex IV(A)(I)(8.1), (8.2), (9), (10), (11.1), (11.2), (12), (13.1), (13.2), (14), (15), (17), (18), (19.1), (19.2), (20), (22.1), (22.2), (23.1), (23.2), (24), (25.5), (25.6), (26), (27.1), (27.2), (28), (29), (32.1), (32.2), (33), (34), (36.1), (36.2), (37), (38.1) and (38.2), where appropriate, official statement that the plants:</p> <ul style="list-style-type: none"> — are clean (i.e. free from plant debris) and free from flowers and fruits, — have been grown in nurseries, — have been inspected at appropriate times and prior to export and found free from symptoms of harmful bacteria, viruses and virus-like organisms, and either found free from signs or symptoms of harmful nematodes, insects, mites and fungi, or have been subjected to appropriate treatment to eliminate such organisms. 	<p>exported from South Africa [Annex III(A)(1), (2), (3), (9), (13), (15), (16), (17), (18)]:</p> <ul style="list-style-type: none"> — <i>Abies</i> Mill., <i>Castanea</i> Mill., <i>Cedrus</i> Trew, <i>Chaenomeles</i> Ldl., <i>Chamaecyparis</i> Spach, <i>Citrus</i> L., <i>Crateagus</i> L., <i>Cydonia</i> Mill., <i>Fragaria</i> L., <i>Fortunella</i> Swingle <i>Juniperus</i> L., <i>Larix</i> Mill., <i>Malus</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Poncirus</i> Raf., <i>Prunus</i> L., <i>Pseudotsuga</i> Carr., <i>Pyrus</i> L., <i>Quercus</i> L., <i>Rosa</i> L., <i>Solanaceae</i>, <i>Tsuga</i> Carr., <i>Vitis</i> L.
40. Deciduous trees and shrubs, intended for planting, other than seeds and plants in tissue culture, originating in third countries other than European and Mediterranean countries	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(2), (3), (9), (15), (16), (17) and (18), Annex III(B)(1) and Annex IV(A)(I), (11.1), (11.2), (11.3), (12), (13.1), (13.2), (14), (15), (17), (18),	<ul style="list-style-type: none"> • Applicable to South Africa • The following are prohibited to be exported from South Africa [Annex III(A)(2), (3), (9), (15), (16), (17), (18)]: <ul style="list-style-type: none"> — <i>Castanea</i> Mill., <i>Chaenomeles</i> Ldl., <i>Citrus</i> L., <i>Crateagus</i> L.,

Plants, plant products and other objects	Special requirements	Export certification guidelines
	(19.1), (19.2), (20), (22.1), (22.2), (23.1), (23.2), (24), (33), (36.1), (38.1), (38.2), (39) and (45.1) where appropriate, official statement that: <ul style="list-style-type: none"> the plants are dormant and free from leaves 	<i>Cydonia</i> Mill., <i>Fragaria</i> L., <i>Fortunella</i> Swingle, <i>Malus</i> Mill., <i>Poncirus</i> Raf., <i>Prunus</i> L., <i>Pyrus</i> L., <i>Quercus</i> L., <i>Rosa</i> L., <i>Vitis</i> L.
41. Annual and biennial plants , other than Gramineae, intended for planting, other than seeds, originating in countries other than European and Mediterranean countries	Without prejudice to the provisions applicable to the plants, where appropriate, listed in Annex III(A)(11), (13), and Annex IV(A)(I)(25.5), (25.6), (32.1), (32.2), (32.3), (33), (34), (35.1) and (35.2), official statement that the plants: <ul style="list-style-type: none"> have been grown in nurseries, are free from plant debris, flowers and fruits, have been inspected at appropriate times and prior to export, and found free from symptoms of harmful bacteria, viruses and virus-like organisms, and either found free from signs or symptoms of harmful nematodes, insects, mites and fungi, or have been subjected to appropriate treatment to eliminate such organisms. 	<ul style="list-style-type: none"> Applicable to South Africa Plants of Solanaceae are prohibited to be exported from South Africa [Annex III (A)(11), (13)]
42. Plants of the family Gramineae of ornamental perennial grasses of the subfamilies Bambusoideae ,	Without prejudice to the requirements applicable to the plants, where appropriate, listed in Annex	<ul style="list-style-type: none"> Applicable to South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>Panicoideae and of the genera <i>Buchloe</i>, <i>Bouteloua</i> Lag., <i>Calamagrostis</i>, <i>Cortaderia</i> Stapf., <i>Glyceria</i> R. Br., <i>Hakonechloa</i> Mak. ex Honda, <i>Hystrix</i>, <i>Molinia</i>, <i>Phalaris</i> L., <i>Shibataea</i>, <i>Spartina</i> Schreb., <i>Stipa</i> L. and <i>Uniola</i> L. intended for planting, other than seeds, originating in countries other than European and Mediterranean countries</p>	<p>IV(A)(I)(33) and (34), official statement that the plants:</p> <ul style="list-style-type: none"> — have been grown in nurseries, and — are free from plants debris, flowers and fruits, and — have been inspected and prior to export, and — found free from symptoms of harmful bacteria, viruses and virus-like organisms, and — either found free from signs or symptoms of harmful nematodes, insects, mites and fungi, or have been subjected to appropriate treatment to eliminate such organisms. 	
<p>43. Naturally or artificially dwarfed plants intended for planting other than seeds, originating in non-European countries</p>	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), (2), (3), (9), (13), (15), (16), (17), (18), Annex III(B)(1), and Annex IV(A)(I)(8.1), (9), (10), (11.1), (11.2), (12), (13.1), (13.2), (14), (15), (17), (18), (19.1), (19.2), (20), (22.1), (22.2), (23.1), (23.2), (24), (25.5), (25.6), (26), (27.1), (27.2), (28), (32.1), (32.2), (33), (34), (36.1), (36.2), (37), (38.1), (38.2), (39), (40) and (42), where appropriate, official statement that:</p> <p>(a) the plants, including those collected directly from natural habitats, shall have been grown, held and</p>	<ul style="list-style-type: none"> • Applicable to South Africa • The following are prohibited to be exported from South Africa [Annex III(A)(1), (2), (3), (9), (13), (15), (16), (17), (18)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill., <i>Castanea</i> Mill., <i>Cedrus</i> Trew, <i>Chaenomeles</i> Ldl., <i>Chamaecyparis</i> Spach, <i>Citrus</i> L., <i>Crateagus</i> L., <i>Cydonia</i> Mill., <i>Fragaria</i> L., <i>Fortunella</i> Swingle, <i>Juniperus</i> L., <i>Larix</i> Mill., <i>Malus</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Poncirus</i> Raf., <i>Prunus</i> L., <i>Pseudotsuga</i> Carr., <i>Pyrus</i> L., <i>Quercus</i> L., <i>Rosa</i> L., <i>Solanaceae</i>, <i>Tsuga</i> Carr., <i>Vitis</i> L.



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>trained for at least two consecutive years prior to dispatch in officially registered nurseries, which are subject to an officially supervised control regime,</p> <p>(b) the plants on the nurseries referred to in (a) shall:</p> <p>(aa) at least during the period referred to in (a):</p> <ul style="list-style-type: none">— be potted, in pots which are placed on shelves at least 50 cm above ground,— have been subjected to appropriate treatments to ensure freedom from non-European rusts: the active ingredient, concentration and date of application of these treatments shall be mentioned on the phytosanitary certificate provided for in Article 7 of this Directive under the rubric ‘disinfestation and/or disinfection treatment’.— have been officially inspected at least six times a year at appropriate intervals for the presence of harmful organisms of concern, which are those in the Annexes to the Directive. These inspections, which shall also be carried out on plants in the immediate vicinity of the nurseries referred to in (a), shall be carried out at least by	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>visual examination of each row in the field or nursery and by visual examination of all parts of the plant above the growing medium, using a random sample of at least 300 plants from a given genus where the number of plants of that genus is not more than 3 000 plants, or 10% of the plants if there are more than 3 000 plants from that genus,</p> <p>— have been found free, in these inspections, from the relevant harmful organisms of concern as specified in the previous indent. Infested plants shall be removed. The remaining plants, where appropriate, shall be effectively treated, and in addition shall be held for an appropriate period and inspected to ensure freedom from such harmful organisms of concern,</p> <p>— have been planted in either an unused artificial growing medium or in a natural growing medium, which has been treated by fumigation or by appropriate heat treatment and has been of any harmful organisms,</p> <p>— have been kept under conditions which ensure that the growing medium has been maintained free from harmful organisms and within two weeks prior to dispatch, have been:</p>	

Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>— shaken and washed with clean water to remove the original growing medium and kept bare rooted, or</p> <p>— shaken and washed with clean water to remove the original growing medium and replanted in growing medium which meets the conditions laid down in (aa) fifth indent, or</p> <p>— subjected to appropriate treatments to ensure that the growing medium is free from harmful organisms, the active ingredient, concentration and date of application of these treatments shall be mentioned on the phytosanitary certificate provided for in Article 7 of this Directive under the rubric ‘disinfestation and/or disinfection treatment’.</p> <p>(bb) be packed in closed containers which have been officially sealed and bear the registration number of the registered nursery; this number shall also be indicated under the rubric <i>additional declaration</i> on the phytosanitary certificate provided for in Article 7 of this Directive, enabling the consignments to be identified.</p>	
<p>44. Herbaceous perennial plants, intended for planting, other than seeds, of the families Caryophyllaceae (except</p>	<p>Without prejudice to the requirements applicable to plants, where appropriate, listed in Annex</p>	<p>• Applicable to South Africa</p>



Plants, plant products and other objects	Special requirements	Export certification guidelines
<i>Dianthus</i> L.), Compositae (except <i>Dendranthema</i> (DC.) Des Moul.), Cruciferae , Leguminosae and Rosaceae (except <i>Fragaria</i> L.), originating in third countries, other than European and Mediterranean countries	IV(A)(I)(32.1), (32.2), (32.3), (33) and (34), official statement that the plants: — have been grown in nurseries, and — are free from plant debris, flowers and fruits, and — have been inspected at appropriate times and prior to export, and — found free from symptoms of harmful bacteria, viruses and virus-like organisms, and — either found free from signs or symptoms of harmful nematodes, insects, mites and fungi, or have been subjected to appropriate treatment to eliminate such organisms.	
45.1. Plants of herbaceous species and plants of <i>Ficus</i> L. and <i>Hibiscus</i> L. , intended for planting, other than bulbs, corms, rhizomes, seeds and tubers, originating in non-European countries	Without prejudice to the requirements applicable to the plants in Annex IV, Part A, Section I(27.1), (27.2), (28), (29), (32.1), (32.3) and (36.1), official statement that the plants: (a) originate in an area, established in the country of export by the national plant protection service in that country, as being free from <i>Bemisia tabaci</i> Genn. (non-European populations) in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive	<ul style="list-style-type: none"> • Applicable to South Africa • <i>Bemisia tabaci</i>¹ (Biotype B) Genn. (non-European populations) [tobacco whitefly; silver leaf whitefly] are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>under the rubric 'Additional declaration', or</p> <p>(b) originate in a place of production, established in the country of export by the national plant protection service in that country, as being free from <i>Bemisia tabaci</i> Genn. (non-European populations) in accordance with relevant International Standards for Phytosanitary Measures, and which is mentioned on the certificates referred to in Articles 7 or 8 of this Directive under the rubric 'Additional declaration', and declared free from <i>Bemisia tabaci</i> Genn. (non-European populations) on official inspections carried out at least once each three weeks during the nine weeks prior to export, or</p> <p>(c) in cases where <i>Bemisia tabaci</i> Genn. (non-European populations) has been found at the place of production, are held or produced in this place of production and have undergone an appropriate treatment to ensure freedom from <i>Bemisia tabaci</i> Genn. (non-European populations) and subsequently this place of production shall have been found free from <i>Bemisia tabaci</i> Genn. (non-European populations) as a consequence of the implementation of</p>	



Plants, plant products and other objects	Special requirements	Export certification guidelines
	appropriate procedures aiming at eradicating <i>Bemisia tabaci</i> Genn. (non-European populations), in both official inspections carried out weekly during the nine weeks prior to export and in monitoring procedures throughout the said period. Details of the treatment shall be mentioned on the certificates referred to in Article 7 or 8 of this Directive.	
45.2. Cut flowers of <i>Aster</i> spp., <i>Eryngium</i> L., <i>Gypsophila</i> L., <i>Hypericum</i> L., <i>Lisianthus</i> L., <i>Rosa</i> L., <i>Solidago</i> L., <i>Trachelium</i> L., and leafy vegetables of <i>Ocimum</i> L., originating in non-European countries	Official statement that the cut flowers and leafy vegetables: — originate in a country free from <i>Bemisia tabaci</i> Genn. (non-European populations), or — immediately prior to their export, have been officially inspected and found free from <i>Bemisia tabaci</i> Genn. (non-European populations).	<ul style="list-style-type: none"> • <i>Bemisia tabaci</i>¹ (Biotype B) Genn. [(non-European populations) tobacco whitefly; silver leaf whitefly] are known to occur in South Africa
45.3. Plants of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw. intended for planting, other than seeds, originating in countries where Tomato yellow leaf curl virus is known to occur (a) Where <i>Bemisia tabaci</i> Genn. is not known to occur	Without prejudice to the requirements applicable to plants listed in Annex III(A)(13) and Annex IV(A)(I)(25.5), (25.6) and 25.7 where appropriate Official statement that: <ul style="list-style-type: none"> – no symptoms of Tomato yellow leaf curl virus have been observed on the plants 	<ul style="list-style-type: none"> • Not applicable to South Africa <ul style="list-style-type: none"> – Tomato yellow leaf curl virus^{1;4;8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
(b) Where <i>Bemisia tabaci</i> Genn. is known to occur	<p>Official statement that:</p> <p>(a) no symptoms of Tomato yellow leaf curl virus have been observed on the plants, and</p> <p>(aa) the plants originate in areas known to be free from <i>Bemisia tabaci</i> Genn., or</p> <p>(bb) the place of production has been found free from <i>Bemisia tabaci</i> Genn. on official inspections carried out at least monthly during the three months prior to export; or</p> <p>(b) no symptoms of Tomato yellow leaf curl virus have been observed on the place of production and the place of production has been subjected to an appropriate treatment and monitoring regime to ensure freedom from <i>Bemisia tabaci</i> Genn.</p>	
<p>46. Plants intended for planting, other than seeds, tubers, corms, rhizomes, originating in countries where the relevant harmful organisms are known to occur.</p> <p>The relevant harmful organisms are:</p> <ul style="list-style-type: none"> — Bean golden mosaic virus, — Cowpea mild mottle virus, — Lettuce infectious yellow virus, — Pepper mild tigré virus, 	<p>Without prejudice to the requirements applicable to the plants listed in Annex III(A)(13) and Annex IV(A)(I)(25.5) (25.6), (32.1), (32.2), (32.3), (35.1), (35.2), (44), (45), (45.1), (45.2) and (45.3) where appropriate</p>	<ul style="list-style-type: none"> • Applicable to South Africa • Plants of Solanaceae are prohibited to be exported from South Africa [Annex III (A) (13). – Bean golden mosaic virus^{1,4,8} are not known to occur in South Africa – Cowpea mild mottle virus^{1,4} are not known to occur in South



Plants, plant products and other objects	Special requirements	Export certification guidelines
<p>— Squash leaf curl virus, — other viruses transmitted by <i>Bemisia tabaci</i> Genn.</p> <p>(a) Where <i>Bemisia tabaci</i> Genn. (non-European populations) or other vectors of the relevant harmful organisms are not known to occur</p> <p>(b) Where <i>Bemisia tabaci</i> Genn. (non-European populations) or other vectors of the relevant harmful organisms are known to occur</p>	<p>Official statement that:</p> <ul style="list-style-type: none"> no symptoms of the relevant harmful organisms have been observed on the plants during their complete cycle of vegetation <p>Official statement that:</p> <ul style="list-style-type: none"> no symptoms of the relevant harmful organisms have been observed on the plants during an adequate period, and (a) the plants originate in areas known to be free from <i>Bemisia tabaci</i> Genn. and other vectors of the relevant harmful organisms; or (b) the place of production has been found free from <i>Bemisia tabaci</i> Genn. and other vectors of the relevant harmful organisms on official inspections carried out at appropriate times; or (c) the plants have been subjected to an appropriate treatment aimed at eradicating <i>Bemisia tabaci</i> Genn. 	<p>Africa</p> <ul style="list-style-type: none"> Lettuce infectious yellows virus^{1,4,8} are not known to occur in South Africa Pepper mild tigré virus⁴ are known to occur in South Africa Squash leaf curl virus¹ are not known to occur in South Africa Euphorbia mosaic virus⁴ are not known to occur in South Africa Florida tomato virus¹ are not known to occur in South Africa <ul style="list-style-type: none"> <i>Bemisia tabaci</i>¹ (Biotype B) Genn. [(non-European populations) tobacco whitefly; silver leaf whitefly] are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
47. Seeds of <i>Helianthus annuus</i> L.	<p>Official statement that:</p> <p>(a) the seeds originate in areas known to be free from <i>Plasmopara halstedii</i> (Farlow) Berl. and de Toni; or</p> <p>(b) the seeds, other than those seeds that have been produced on varieties resistant to all races of <i>Plasmopara halstedii</i> (Farlow) Berl. and de Toni present in the area of production, have been subjected to an appropriate treatment against <i>Plasmopara halstedii</i> (Farlow) Berl. and de Toni.</p>	<ul style="list-style-type: none"> • <i>Plasmopara halstedii</i> (Farlow) Berl. and de Toni^{1;21} (downy mildew of sunflower) are known to occur in South Africa
48. Seeds of <i>Lycopersicon lycopersicum</i> (L.) Karsten ex Farw.	<p>Official statement that:</p> <ul style="list-style-type: none"> – the seeds have been obtained by means of an appropriate acid extraction method or an equivalent method approved in accordance with the procedure referred to in Article 18(2), and (a) either the seeds originate in areas where <i>Clavibacter michiganensis</i> ssp. <i>michiganensis</i> (Smith) Davis <i>et al.</i>, <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (Doidge) Dye and Potato spindle tuber viroid are not known to occur; or (b) no symptoms of diseases caused by those harmful organisms have been observed on the plants at the place of production during their 	<ul style="list-style-type: none"> • <i>Clavibacter michiganensis</i> spp. <i>michiganensis</i>^{1;4;8} (Smith) Davis <i>et al.</i> (bacterial canker of tomato) are known to occur in South Africa • <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i>^{1;4;8} (Doidge) Dye (bacterial spot of tomato and pepper) are known to occur in South Africa • Potato spindle tuber viroid^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	complete cycle of vegetation; or (c) the seeds have been subjected to official testing for at least those harmful organisms, on a representative sample and using appropriate methods, and have been found, in these tests, free from those harmful organisms.	
49.1. Seeds of <i>Medicago sativa</i> L.	Official statement that: (a) no symptoms <i>Ditylenchus dipsaci</i> (Kühn) Filipjev have been observed at the place of production since the beginning of the last complete cycle of vegetation and no <i>Ditylenchus dipsaci</i> (Kühn) Filipjev has been revealed by laboratory tests on a representative sample; or (b) fumigation has taken place prior to export.	<ul style="list-style-type: none"> • <i>Ditylenchus dipsaci</i> (Kühn) Filipjev^{1;6;7;8} (stem and bulb nematode) are known to occur in South Africa
49.2. Seeds of <i>Medicago sativa</i> L., originating in countries where <i>Clavibacter michiganensis</i> ssp. <i>insidiosus</i> Davis <i>et al.</i> is known to occur	Without prejudice to the requirements applicable to plants listed in Annex IV(A)(I)(49.1), official statement that: (a) <i>Clavibacter michiganensis</i> ssp. <i>insidiosus</i> Davis <i>et al.</i> has not been known to occur on the farm or in the immediate vicinity since the beginning of the past 10 years; (b) either — the crop belongs to a variety	<ul style="list-style-type: none"> • <i>Clavibacter michiganensis</i> spp. <i>insidiosus</i> (McCulloch) Davis <i>et al.</i>^{1;4;8} (bacterial lucerne wilt) are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>recognized as being highly resistant to <i>Clavibacter michiganensis</i> ssp. <i>insidiosus</i> Davis <i>et al.</i>, or</p> <p>— it had not yet started its fourth complete cycle of vegetation from sowing when the seed was harvested and there was not more than one preceding seed harvest from the crop, or</p> <p>— the content of inert matter which has been determined in accordance with the rules applicable for the certification of seed marketed in the Community, does not exceed 0,1% by weight;</p> <p>(c) no symptoms of <i>Clavibacter michiganensis</i> ssp. <i>insidiosus</i> Davis <i>et al.</i> have been observed at the place of production, or on any <i>Medicago sativa</i> L. crop adjacent to it, during the last complete cycle of vegetation or, where appropriate, the last two cycles of vegetation;</p> <p>(d) the crop has been grown on land on which no previous <i>Medicago sativa</i> L. crop has been present during the last three years prior to sowing.</p>	
50. Seeds of <i>Oryza sativa</i> L.	Official statement that:	<ul style="list-style-type: none"> • <i>Aphelenchoides besseyi</i> ^{1;7;8} Christie (rice leaf nematode) are known to



Plants, plant products and other objects	Special requirements	Export certification guidelines
	<p>(a) the seeds have been officially tested by appropriate nematological tests and have been found free from <i>Aphelenchoides besseyi</i> Christie; or</p> <p>(b) the seeds have been subjected to an appropriate hot water treatment or other appropriate treatment against <i>Aphelenchoides besseyi</i> Christie.</p>	occur in South Africa
51. Seeds of <i>Phaseolus</i> L.	<p>Official statement that:</p> <p>(a) the seeds originate in areas known to be free from <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> (Smith) Dye; or</p> <p>(b) a representative sample of the seeds has been tested and found free from <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> (Smith) Dye in these tests.</p>	<ul style="list-style-type: none"> • <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> (Smith) Dye^{1;4;8} (bean blight) are known to occur in South Africa
52. Seeds of <i>Zea mays</i> L.	<p>Official statement that:</p> <p>(a) the seeds originate in areas known to be free from <i>Erwinia stewartii</i> (Smith) Dye; or</p> <p>(b) a representative sample of the seeds has been tested and found free from <i>Erwinia stewartii</i> (Smith) Dye in this test.</p>	<ul style="list-style-type: none"> • <i>Erwinia stewartii</i> (Smith) Dye^{1;4;8} are not known to occur in South Africa
53. Seeds of the genera <i>Triticum</i> , <i>Secale</i> and <i>X Triticosecale</i> from Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa and the	<p>Official statement that:</p> <ul style="list-style-type: none"> – the seeds originate in an area where <i>Tilletia indica</i> Mitra is known not to occur. The name of 	<ul style="list-style-type: none"> • <i>Tilletia indica</i> Mitra^{1,2,8} are known to occur in South Africa – Pest free areas are regulated by the Agricultural Pest Act 36 of



Plants, plant products and other objects	Special requirements	Export certification guidelines
USA where <i>Tilletia indica</i> Mitra is known to occur.	the area shall be mentioned on the phytosanitary certificate provided for in Article 7.	1983
54. Grain of the genera <i>Triticum</i>, <i>Secale</i> and <i>x Triticosecale</i> from Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa and the USA where <i>Tilletia indica</i> Mitra is known to occur.	Official statement that: either, (i) the grain originates in an area where <i>Tilletia indica</i> Mitra is known not to occur. The name of the area or areas shall be mentioned on the phytosanitary certificate provided for in Article 7, under the rubric 'place of origin' or (ii) no symptoms of <i>Tilletia indica</i> Mitra have been observed on the plants at the place of production during their last complete cycle of vegetation and representative samples of the grain have been taken both at the time of harvest and before shipment and have been tested and found free from <i>Tilletia indica</i> Mitra in these tests; the latter shall be mentioned on the phytosanitary certificate provided for in Article 7, in the rubric 'name of produce' as 'tested and found free from <i>Tilletia indica</i> Mitra'.	<ul style="list-style-type: none">• <i>Tilletia indica</i> Mitra^{1,2,8} are known to occur in South Africa<ul style="list-style-type: none">– Pest free areas are regulated by the Agricultural Pest Act 36 of 1983

PART B

SPECIAL REQUIREMENTS WHICH SHALL BE LAID DOWN BY ALL MEMBER STATES FOR THE INTRODUCTION AND MOVEMENT OF PLANTS, PLANT PRODUCTS AND OTHER OBJECTS INTO AND WITHIN CERTAIN PROTECTED ZONES

Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
1. Wood of conifers (Coniferales)	<p>Without prejudice to the requirements applicable to the wood listed in Annex IV(A)(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate:</p> <p>(a) the wood shall be stripped of its bark; or (b) official statement that the wood originates in areas known to be free from <i>Dendroctonus micans</i> Kugelan; or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.</p>	EL, IRL, UK (Northern Ireland, Isle of Man and Jersey)	<ul style="list-style-type: none"> <i>Dendroctonus micans</i> Kugelan^{1;11} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
2. Wood of conifers (<i>Coniferales</i>)	Without prejudice to the requirements applicable to the wood listed in Annex IV(A)(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate, and Annex IV(B)(1), (a) the wood shall be stripped of its bark; or (b) official statement that the wood originates in areas known to be free from <i>Ips duplicatus</i> Sahlbergh ; or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.	EL, IRL, UK	<ul style="list-style-type: none"> <i>Ips duplicatus</i> Sahlberg^{1;36} are not known to occur in South Africa
3. Wood of conifers (<i>Coniferales</i>)	Without prejudice to the requirements applicable to the wood listed in Annex IV(A)(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate, and Annex IV(B)(1) and (2): (a) the wood shall be stripped of its	IRL, UK	<ul style="list-style-type: none"> <i>Ips typographus</i> Heer^{1;38} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>bark; or (b) official statement that the wood originates in areas known to be free from <i>Ips typographus</i> Heer; or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.</p>		
<p>4. Wood of conifers <i>(Coniferales)</i></p>	<p>Without prejudice to the requirements applicable to the wood listed in Annex IV(A)(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate, and Annex IV(B)(1), (2), (3):</p> <p>(a) the wood shall be stripped of its bark; or (b) official statement that the wood originates in areas known to be free from <i>Ips amitinus</i> Eichhof; or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in</p>	<p>EL, F (Corsica), IRL, UK</p>	<ul style="list-style-type: none"> • <i>Ips amitinus</i> Eichhof^{1;34} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.		
5. Wood of conifers (Coniferales)	<p>Without prejudice to the requirements applicable to the wood listed in Annex IV(A),(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate, and Annex IV(B)(1), (2), (3), (4):</p> <p>(a) the wood shall be stripped of its bark; or (b) official statement that the wood originates in areas known to be free from <i>Ips cembrae</i> Heer, or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.</p>	EL, IRL, UK (Northern Ireland, Isle of Man)	<ul style="list-style-type: none"> <i>Ips cembrae</i> Heer ^{1;35} are not known to occur in South Africa
6. Wood of conifers	Without prejudice to the requirements	IRL, CY, UK	<ul style="list-style-type: none"> <i>Ips sexdentatus</i> Börner ^{1;37} are not



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
(Coniferales)	<p>applicable to the wood listed in Annex IV(A)(I)(1.1), (1.2), (1.3), (1.4), (1.5), (7), where appropriate, and Annex IV(B)(1), (2), (3), (4), (5):</p> <p>(a) the wood shall be stripped of its bark; or (b) official statement that the wood originates in areas known to be free from <i>Ips sexdentatus</i> Börner; or (c) there shall be evidence by a mark 'Kilndried', 'KD' or another internationally recognised mark, put on the wood or on its packaging in accordance with current commercial usage, that it has undergone kiln-drying to below 20% moisture content, expressed as a percentage of dry matter, at time of manufacture, achieved through an appropriate time/temperature schedule.</p>	(Northern Ireland, Isle of Man)	known to occur in South Africa
6.3. Wood of <i>Castanea</i> Mill.	<p>(a) The wood shall be bark free, or (b) Official statement that the wood:</p> <p>(i) originates in areas known to be free from <i>Cryphonectria parasitica</i> (Murrill.) Barr., or (ii) has undergone kiln- drying to below 20% moisture content, expressed as a percentage of dry</p>	CZ, EL, (Crete, Lesvos) IRL, S, UK (except the Isle of Man)	<ul style="list-style-type: none"> <i>Cryphonectria parasitica</i> (Murrill.) Barr. Mill. ^{1;2;8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	matter, achieved through an appropriate time/ temperature schedule. There shall be evidence thereof by a mark 'Kiln- dried' or 'KD' or another internationally recognised mark, put on the wood or on any wrapping in accordance with current usage.		
7. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L. and <i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), (10) and Annex IV(A) (II)(4), (5), where appropriate, official statement that: <ul style="list-style-type: none"> – the place of production is free from <i>Dendroctonus micans</i> Kugelan. 	EL, IRL, UK (Northern Ireland, Isle of Man and Jersey).	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr.
8. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr. and <i>Pinus</i> L., over 3 m in height, other than fruit and seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), (10), Annex IV(A)(II) (4), (5), and Annex IV(B)(7), where appropriate, official statement that: <ul style="list-style-type: none"> – the place of production is free from <i>Ips duplicatus</i> Sahlberg. 	EL, IRL, UK	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L.,
9. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A., Dietr., <i>Pinus</i> L. and	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9),	IRL, UK	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
<i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds	(10), Annex IV(A)(II) (4), (5) and Annex IV(B)(7), (8), where appropriate, official statement that : – the place of production is free from <i>Ips typographus</i> Heer.		[in Annex III (A)(1)]: – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr.
10. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., and <i>Pinus</i> L. over 3 m in height, other than fruit and seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), (10), Annex IV(A)(II) (4), (5), and Annex IV(B)(7), (8), (9), where appropriate, official statement that: – the place of production is free from <i>Ips amitinus</i> Eichhof.	EL, F (Corsica), IRL, UK	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L.,
11. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Pseudotsuga</i> Carr., over 3 m in height, other than fruit and seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), (10), Annex IV(A)(II) (4), (5), and Annex IV(B)(7), (8), (9), (10), where appropriate, official statement that:: – the place of production is free from <i>Ips cembrae</i> Heer.	EL, IRL, UK (Northern Ireland, Isle of Man)	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill., – <i>Larix</i> Mill., – <i>Picea</i> A. Dietr., – <i>Pinus</i> L., – <i>Pseudotsuga</i> Carr.
12. Plants of <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr. and <i>Pinus</i> L., over 3 m in height, other than fruit and seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), (10), Annex IV(A)(II) (4), (5), and Annex IV(B)(7), (8), (9), (10), (11),	IRL,CY, UK (Northern Ireland, Isle of Man)	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> – <i>Abies</i> Mill.,



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	where appropriate, official statement that: <ul style="list-style-type: none"> – the place of production is free from <i>Ips sexdentatus</i> Börner. 		<ul style="list-style-type: none"> – <i>Larix</i> Mill., – <i>Picea A. Dietr.</i>, – <i>Pinus</i> L.,
14.1. Isolated bark of conifers (<i>Coniferales</i>)	Official statement that the consignment: <p>(a) has been subjected to fumigation or other appropriate treatments against bark beetles; or</p> <p>(b) originates in areas known to be free from <i>Dendroctonus micans</i> Kugelan.</p>	EL, IRL, UK (Northern Ireland, Isle of Man and Jersey).	<ul style="list-style-type: none"> • <i>Dendroctonus micans</i> Kugelan ^{1;11} are not known to occur in South Africa
14.2. Isolated bark of conifers (<i>Coniferales</i>)	Without prejudice to the provisions applicable to the bark listed in Annex IV(B)(14.1), official statement that the consignment: <p>(a) has been subjected to fumigation or other appropriate treatments against bark beetles; or</p> <p>(b) originates in areas known to be free from <i>Ips amitinus</i> Eichhof.</p>	EL, F (Corsica), IRL, UK	<ul style="list-style-type: none"> • <i>Ips amitinus</i> Eichhof ^{1;34} are not known to occur in South Africa
14.3. Isolated bark of conifers (<i>Coniferales</i>)	Without prejudice to the provisions applicable to the bark listed in Annex IV(B)(14.1), (14.2), official statement that the consignment: <p>(a) has been subjected to fumigation</p>	EL, IRL, UK (Northern Ireland, Isle of Man)	<ul style="list-style-type: none"> • <i>Ips cembrae</i> Heer ^{1;35} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	or other appropriate treatments against bark beetles; or (b) originates in areas known to be free from <i>Ips cembrae</i> Heer.		
14.4. Isolated bark of conifers (<i>Coniferales</i>)	Without prejudice to the provisions applicable to the bark listed in Annex IV(B)(14.1), (14.2), (14.3), official statement that the consignment: (a) has been subjected to fumigation or other appropriate treatments against bark beetles; or (b) originates in areas known to be free from <i>Ips duplicatus</i> Sahlberg.	EL, IRL, UK	<ul style="list-style-type: none"> <i>Ips duplicatus</i> Sahlberg ^{1;36} are not known to occur in South Africa
14.5. Isolated bark of conifers (<i>Coniferales</i>)	Without prejudice to the provisions applicable to the bark listed in Annex IV(B)(14.1), (14.2), (14.3), (14.4), official statement that the consignment: (a) has been subjected to fumigation or other appropriate treatments against bark beetles; or (b) originates in areas known to be free from <i>Ips sexdentatus</i> Börner.	IRL,CY,UK (Northern Ireland, Isle of Man)	<ul style="list-style-type: none"> <i>Ips sexdentatus</i> Börner ^{1;37} are not known to occur in South Africa
14.6. Isolated bark of conifers (<i>Coniferales</i>)	Without prejudice to the provisions applicable to the bark listed in Annex IV(B)(14.1), (14.2), (14.3), (14.4), (14.5), official statement that the consignment:	IRL, UK	<ul style="list-style-type: none"> <i>Ips typographus</i> Heer ^{1;38} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>(a) has been subjected to fumigation or other appropriate treatments against bark beetles; or</p> <p>(b) originates in areas known to be free from <i>Ips typographus</i> Heer.</p>		
14.9. Isolated bark of <i>Castanea</i> Mill.	<p>Official statement that the isolated bark:</p> <p>(a) originates in areas known to be free from <i>Cryphonectria parasitica</i> (Murrill.) Barr., or</p> <p>(b) has been subjected to fumigation or other appropriate treatment against <i>Cryphonectria parasitica</i> (Murrill.) Barr. to a specification approved in accordance with the procedure laid down in Article 18.2. There shall be evidence of the fumigation by indicating on the certificates referred to in Article 13.1.(ii), the active ingredient, the minimum bark temperature, the rate (g/ m³) and the exposure time (h)</p>	CZ, DK, EL, (Crete, Lesvos) IRL, S, UK (except the Isle of Man).	<ul style="list-style-type: none"> • Not Applicable to South Africa • Isolated bark of <i>Castanea</i> Mill. are prohibited to be exported to South Africa [Annex III (A) (5)]:
15. Plants of <i>Larix</i> Mill., intended for planting, other than seeds	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (10), Annex IV(A)(II)(5) and Annex IV(B)(7), (8), (9), (10), (11), (12), (13), official statement that:	IRL, UK (Northern Ireland, Isle of Man and Jersey)	<ul style="list-style-type: none"> • Not Applicable to South Africa • Plants of <i>Larix</i> Mill. are prohibited to be exported from South Africa [Annex III (A)(1)]:



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<ul style="list-style-type: none"> the plants have been produced in nurseries and that the place of production is free from <i>Cephalcia lariciphila</i> (Klug.) 		
16. Plants of <i>Pinus</i> L., <i>Picea</i> A. Dietr., <i>Larix</i> Mill., <i>Abies</i> Mill. and <i>Pseudotsuga</i> Carr., intended for planting, other than seeds	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), Annex IV(A)(II)(4) and Annex IV(B)(7), (8), (9), (10), (11), (12), (13), (15), where appropriate, official statement that:</p> <ul style="list-style-type: none"> the plants have been produced in nurseries and that the place of production is free from <i>Gremmeniella abiedina</i> (Lag.) Morelet. 	IRL, UK (Northern Ireland)	<ul style="list-style-type: none"> Not Applicable to South Africa The following plants are prohibited to be exported from South Africa [Annex III (A)(1)]: <ul style="list-style-type: none"> <i>Abies</i> Mill., <i>Larix</i> Mill., <i>Picea</i> A. Dietr., <i>Pinus</i> L., <i>Pseudotsuga</i> Carr
17. Plants of <i>Pinus</i> L., intended for planting, other than seeds	<p>Without prejudice to the provisions applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (9), Annex IV(A)(II)(4) and Annex IV(B)(7), (8), (9), (10), (11), (12), (13), (16), official statement that:</p> <ul style="list-style-type: none"> the plants have been produced in nurseries and that the place of production and its immediate vicinity is free from <i>Thaumetopoea pityocampa</i> (Den. And Schiff.). 	E (Ibiza)	<ul style="list-style-type: none"> Not Applicable to South Africa Plants of <i>Pinus</i> L. are prohibited to be exported from South Africa [Annex III (A)(1)]:
18. Plants of <i>Picea</i> A.	Without prejudice to the provisions	EL, IRL, UK	<ul style="list-style-type: none"> Not Applicable to South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
Dietr., intended for planting, other than seeds	applicable to the plants listed in Annex III(A)(1), Annex IV(A)(I)(8.1), (8.2), (10), Annex IV(A)(II)(5) and Annex IV(B)(7), (8), (9), (10), (11), (12), (13), (16), official statement that: <ul style="list-style-type: none"> the plants have been produced in nurseries and that the place of production is free from <i>Gilpinia hercyniae</i> (Hartig). 	(Northern Ireland, Isle of Man and Jersey)	<ul style="list-style-type: none"> Plants of <i>Picea A Dietr</i> are prohibited to be exported from South Africa [Annex III (A)(1)]:
19. Plants of <i>Eucalyptus</i> l'Herit , other than fruit and seeds	Official statement that: <p>(a) the plants are free from soil, and have been subjected to a treatment against <i>Gonipterus scutellatus</i> Gyll.; or</p> <p>(b) the plants originate in areas known to be free from <i>Gonipterus scutellatus</i> Gyll.</p>	EL, P (Azores)	<ul style="list-style-type: none"> <i>Gonipterus scutellatus</i> Gyll.^{1;33} (eucalyptus weevil) are known to occur in South Africa
20.1. Tubers of <i>Solanum tuberosum</i> L. , intended for planting	Without prejudice to the provisions applicable to the plants listed in Annex III (A)(10), (11), Annex IV(A) (I)(25.1), (25.2), (25.3), (25.4), (25.5), (25.6), Annex IV(A)(II) (18.1), (18.2), (18.3), (18.4), (18.6), official statement that the tubers: <p>(a) were grown in an area where Beet necrotic yellow vein virus (BNYVV) is known not to occur; or</p> <p>(b) were grown on land, or in growing</p>	F (Britanny), FI, IRL, P (Azores), UK (Northern Ireland).	<ul style="list-style-type: none"> Not Applicable to South Africa Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III (A)(10), (11)]



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	media consisting of soil that is known to be free from BNYVV, or officially tested by appropriate methods and found free from BNYVV; or (c) have been washed free from soil.		
20.2. Tubers of <i>Solanum tuberosum</i> L. , other than those mentioned in Annex IV(B)(20.1)	(a) The consignment or lot shall not contain more than 1% by weight of soil, or (b) the tubers are intended for processing at premises with officially approved waste disposal facilities which ensures that there is no risk of spreading BNYVV.	F (Britanny), FI, IRL, P (Azores), UK (Northern Ireland).	<ul style="list-style-type: none"> • Not Applicable to South Africa • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III (A)(10), (11)]
20.3. Tubers of <i>Solanum tuberosum</i> L.	Without prejudice to the requirements listed in Annex IV(A)(II)(18.1), (18.2), (18.5), official statement that: <ul style="list-style-type: none"> – provisions are complied with in respect of <i>Globodera pallida</i> (Stone) Behrens and <i>Globodera rostochiensis</i> (Wollenweber) Behrens which are in accordance with those laid down in Council Directive 69/465/EEC of 8 December 1969 on control of Potato Cyst Eelworm. 	LV, SI, SK, FI	<ul style="list-style-type: none"> • Not Applicable to South Africa • Tubers of <i>Solanum tuberosum</i> are prohibited to be exported from South Africa [Annex III (A)(10), (11)]



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
<p>21. Plants and live pollen for pollination of:</p> <p><i>Amelanchier</i> Med., <i>Chaenomeles</i> Lindl., <i>Cotoneaster</i> Ehrh., <i>Crataegus</i> L., <i>Cydonia</i> Mill., <i>Eriobotrya</i> Lindl., <i>Malus</i> Mill., <i>Mespilus</i> L., <i>Photinia davidiana</i> (Dcne.) Cardot, <i>Pyracantha</i> Roem., <i>Pyrus</i> L. and <i>Sorbus</i> L., other than fruit and seeds</p>	<p>Without prejudice to the prohibitions applicable to the plants listed in Annex IIIA (9), (9.1), (18) and IIIB (1), (2), where appropriate, official statement that::</p> <p>a) the plants originate in third countries recognised as being free from <i>Erwinia amylovora</i> (Burr.) Winsl. et al. in accordance with the procedure laid down in Article 18(2), or</p> <p>b) the plants originate in pest free areas in third countries which have been established in relation to <i>Erwinia amylovora</i> (Burr.) Winsl. et al. in accordance with the relevant International Standard for Phytosanitary Measures and recognised as such in accordance with the procedure laid down in Article 18(2), or</p> <p>(c) the plants originate in one of the following Cantons of Switzerland: Berne (with the exceptions of the districts of Signau and Trachselwald), Fribourg, Grisons, Vaud, Valais, or</p> <p>(d) the plants originate in the protected zones listed in the right-hand column, or</p> <p>(e) the plants have been produced, or,</p>	<p>E, EE, .F (Corsica), IRL, I (Abruzzi; Apulia; Basilicata; Calabria; Campania; Emilia-Romagna: provinces of Forlì- Cesena (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia) ., Parma, Piacenza and Rimini (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia) .; Friuli-Venezia Giulia; Lazio; Liguria; Lombardy; Marche; Molise;</p>	<ul style="list-style-type: none"> • Not Applicable to South Africa • The following plants are prohibited to be exported from South Africa [Annex IIIA (9), (9.1), (18)]: <ul style="list-style-type: none"> – <i>Chaenomeles</i> Ldl., – <i>Cydonia</i> Mill., – <i>Crataegus</i> L., – <i>Malus</i> Mill., – <i>Pyrus</i> L., • Applicable to South Africa • The following plants are not prohibited to be exported to protected zones from South Africa [Annex III (B) (1), (2)]: <ul style="list-style-type: none"> – <i>Amelanchier</i> Med., – <i>Eriobotrya</i> Lindl., – <i>Mespilus</i> L., – <i>Pyracantha</i> Roem., – <i>Sorbus</i> L., – <i>Cotoneaster</i> Ehrh. – <i>Photinia davidiana</i> (Dcne.) Cardot • <i>Erwinia amylovora</i> (Burr.) Winsl. et al.^{1;4;8} are not known to occur in South Africa

Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>if moved into a «buffer zone» kept and maintained for a period of at least 7 months including the period 1 April to 31 October of the last complete cycle of vegetation, on a field:</p> <p>(aa) located at least 1 km inside the border of an officially designated «buffer zone» of at least 50 km² where host plants are subject to an officially approved and supervised control regime established at the latest before the beginning of the complete cycle of vegetation preceding the last complete cycle of vegetation, with the object of minimising the risk of <i>Erwinia amylovora</i> (Burr.) Winsl. <i>et al.</i> being spread from the plants grown there. Details of the description of this «buffer zone» shall be kept available to the Commission and to other Member States. Once the «buffer zone» is established, official inspections shall be carried out in the zone not comprising the field and its surrounding zone of 500 m width, at least once since the beginning of the last complete cycle of vegetation at the most appropriate time, and all host plants showing symptoms of <i>Erwinia amylovora</i> (Burr.) Winsl. <i>et al.</i> should be removed immediately. The results</p>	<p>Piedmont; Sardinia; Sicily; Trentino- Alto Adige: autonomous province of Trento; .Tuscany; Umbria; Valle d'Aosta; Veneto: except in the province of Rovigo the communes Rovigo, Polesella, Villamarzana, Fratta Polesine, San Bellino, Badia Polesine, Trecenta, Ceneselli, Pontecchio Polesine, Arquà Polesine, Costa di Rovigo, Occhiobello, Lendinara, Canda, Ficarolo,</p>	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>of these inspections shall be supplied by 1 May each year to the Commission and to other Member States, and</p> <p>(bb) which has been officially approved, as well as the «buffer zone», before the beginning of the complete cycle of vegetation preceding the last complete cycle of vegetation, for the cultivation of plants under the requirements laid down in this point, and</p> <p>(cc) which, as well as the surrounding zone of a width of at least 500 m, has been found free from <i>Erwinia amylovora</i> (Burr.) Winsl. <i>et al.</i> since the beginning of the last complete cycle of vegetation, at official inspection carried out at least:</p> <ul style="list-style-type: none"> – twice in the field at the most appropriate time, i.e. once during June to August and once during August to November, and – once in the said surrounding zone at the most appropriate time, i.e. during August to November, and <p>(dd) from which plants were officially tested for latent infections in accordance with an appropriate</p>	<p>Guarda Veneta, Frassinelle Polesine, Villanova del Ghebbo, Fiesso Umbertino, Castelvoglio, Bagnolo di Po, Giacciano con Baruchella, Bosaro, Canaro, Lusina, Pincara, Stienta, Gaiba, Salara, and in the province of Padova the communes Castelvoglio, Barbona, Piacenza d'Adige, Vescovana, S. Urbano, Boara Pisani, Masi, and in the province of Verona the communes Palù, Roverchiara,</p>	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>laboratory method on samples officially drawn at the most appropriate period.</p> <p>Between 1 April 2004 and 1 April 2005, these provisions shall not apply to plants moved into and within the protected zones listed in the right-hand column which have been produced and maintained on fields located in officially designated «buffer zones», according to the relevant requirements applicable before 1 April 2004.</p>	<p>Legnago, Castagnaro, Ronco all'Adige, Villa Bartolomea, Oppeano, Terrazzo, Isola Rizza, Angiari), LV, LT, A (Burgenland, Carinthia, Lower Austria, Tirol (administrative district Lienz), Styria, Vienna), P, SI (except the Gorenjska and Maribor regions), SK (except the communes of Blahová, Horné Mýto and Okoc è (Dunajská Streda County), Hronovce and Hronské Klacany (Levice County), Velké Ripnany</p>	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
		(Topolcany County), Málinec (Poltár County), Hrhov (Rožnava County), Kazimír, Luhyna, Malý Horeš , Svätušie and Zátin (Trebišov County)) ., FI, UK (Northern Ireland, Isle of Man and Channel Islands)	
21.1. Plants of <i>Vitis</i> L., other than fruit and seeds	Without prejudice to the prohibition in Annex III Part A point 15, on introducing plants of <i>Vitis</i> L. other than fruits from third countries (except Switzerland) into the Community, official statement that the plants: (a) originate in an area known to be free from <i>Daktulosphaira vitifoliae</i> (Fitch); or (b) have been grown at a place of production which has been found free	CY	<ul style="list-style-type: none"> • Not Applicable to South Africa • Pants of <i>Vitis</i> L. are prohibited to be exported from South Africa [Annex IIIA (15)]:



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	from <i>Daktulosphaira vitifoliae</i> (Fitch) on official inspections carried out during the last two complete cycles of vegetation; or (c) have been subject to fumigation or other appropriate treatment against <i>Daktulosphaira vitifoliae</i> (Fitch).		
21.2. Fruits of <i>Vitis</i> L.	The fruits shall be free from leaves and official statement that the fruits: (a) originate in an area known to be free from <i>Daktulosphaira vitifoliae</i> (Fitch)(b) have been grown at a place of production which has been found free from <i>Daktulosphaira vitifoliae</i> (Fitch) on official inspections carried out during the last two complete cycles of vegetation; or (c) have been subject to fumigation or other appropriate treatment against <i>Daktulosphaira vitifoliae</i> (Fitch).	CY	<ul style="list-style-type: none"> • <i>Daktulosphaira vitifoliae</i> (Fitch)¹ (grapevine phylloxera) are known to occur in South Africa
21.3 From 15 March to 30 June, beehives	There shall be documented evidence that the beehives: a) originate in third countries recognised as being free from <i>Erwinia amylovora</i> (Burr.) Winsl. et al. in accordance with the procedure laid down in Article 18(2), or b) originate in one of the following	EE, .F (Corsica), IRL, I (Abruzzi; Apulia; Basilicata; Calabria; Campania; Emilia-Romagna:	<ul style="list-style-type: none"> • <i>Erwinia amylovora</i> (Burr.) Winsl. et al.^{1;4;8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	Cantons of Switzerland: Berne (with the exceptions of the districts of Signau and Trachselwald), Fribourg, Grisons, Vaud, Valais, or c) originate in the protected zones listed in the right-hand column, or d) have undergone an appropriate quarantine measure before being moved.	provinces of Forlì- Cesena (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia) ., Parma, Piacenza and Rimini (with exclusion of the provincial area situated to the North of the State road n. 9 — Via Emilia) .; Friuli- Venezia Giulia; Lazio; Liguria; Lombardy; Marche; Molise; Piedmont; Sardinia; Sicily; Tuscany; Umbria; Valle d'Aosta; Veneto: except in the province of Rovigo the communes	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
		Rovigo, Polesella, Villamarzana, Fratta Polesine, San Bellino, Badia Polesine, Trecenta, Ceneselli, Pontecchio Polesine, Arquà Polesine, Costa di Rovigo, Occhiobello, Lendinara, Canda, Ficarolo, Guarda Veneta, Frassinelle Polesine, Villanova del Ghebbo, Fiesso Umbertino, Castelguglielmo , Bagnolo di Po, Giacciano con Baruchella, Bosaro, Canaro, Lusia, Pincara, Stienta, Gaiba, Salara,	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
		and in the province of Padova the communes Castelbaldo, Barbona, Piacenza d'Adige, Vescovana, S. Urbano, Boara Pisani, Masi, and in the province of Verona the communes Palù, Roverchiara, Legnago, Castagnaro, Ronco all'Adige, Villa Bartolomea, Oppeano, Terrazzo, Isola Rizza, Angiari), LV, LT, A (Burgenland, Carinthia, Lower Austria, Tirol (administrative	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
		district Lienz), Styria, Vienna), P, SI (except the Gorenjska and Maribor regions) .,SK (except the communes of Blahová, Horné Mýto and Okoc è (Dunajská Streda County), Hronovce and Hronské Klacany (Levice County), Velké Ripnany (Topolcany County), Málinec (Poltár County), Hrhov (Rožnava County), Kazimír, Luhyna, Malý Horeš , Svätušie and Zátin (Trebíšov County)) ., FI, UK (Northern Ireland, Isle of	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
		Man and Channel Islands)	
22. Plants of <i>Allium porrum</i> L., <i>Apium</i> L., <i>Beta</i> L., other than those mentioned in Annex IV (B)(25) and those intended for animal fodder, <i>Brassica napus</i> L., <i>Brassica rapa</i> L., <i>Daucus</i> L., other than plants intended for planting	(a) The consignment or lot shall not contain more than 1% by weight of soil, or (b) the plants are intended for processing at premises with officially approved waste disposal facilities which ensures that there is no risk of spreading BNYVV	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland),	• Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa
23. Plants of <i>Beta vulgaris</i> L., intended for planting, other than seed	(a) Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I) (35.1), (35.2), Annex IV(A)(II)(25) and Annex IV(B)(22), official statement that the plants: (aa) have been officially individually tested and found free from Beet necrotic yellow vein virus (BNYVV) ; or (bb) have been grown from seeds complying with the requirements listed in Annex IV(B)(27.1) and (27.2), and – grown in areas where BNYVV is known not to occur, or	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland)	• Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>– grown on land, or in growing media, officially tested by appropriate methods and found free from BNYVV, and</p> <p>– sampled, and the sample tested and found free from BNYVV;</p> <p>(b) the organisation or research body holding the material shall inform their official Member State plant protection service of the material held.</p>		
<p>24.1. Unrooted cuttings of <i>Euphorbia pulcherrima</i> Willd., intended for planting</p>	<p>Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I) (45.1), where appropriate, official statement that:</p> <p>(a) the unrooted cuttings originate in an area known to be free from <i>Bemisia tabaci</i> Genn. (European populations), or</p> <p>(b) no signs of <i>Bemisia tabaci</i> Genn. (European populations) have been observed either on the cuttings or on the plants from which the cuttings are derived and held or produced at the place of production on official inspections carried out at least each three weeks during the whole production period of these plants on this place of production, or</p> <p>(c) in cases where <i>Bemisia tabaci</i> Genn. (European populations) has</p>	<p>IRL, P (Azores, Beira Interior, Beira Litoral, Entre Douro e Minho, Madeira, Ribatejo e Oeste (communes of Alcobaça, Alenquer, Bombarral, Cadaval, Caldas da Rainha, Lourinhã, Nazaré, Obidos, Peniche and Torres Vedras)</p>	<ul style="list-style-type: none"> • <i>Bemisia tabaci</i> Genn. (European populations)¹ [tobacco whitefly; silver leaf whitefly] are known o occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>been found at the place of production, the cuttings and the plants from which the cuttings are derived and held or produced in this place of production have undergone an appropriate treatment to ensure freedom from <i>Bemisia tabaci</i> Genn. (European populations) and subsequently this place of production shall have been found free from <i>Bemisia tabaci</i> Genn. (European populations) as a consequence of the implementation of appropriate procedures aiming at eradicating <i>Bemisia tabaci</i> Genn. (European populations), in both official inspections carried out weekly during the three weeks prior to the movement from this place of production and in monitoring procedures throughout the said period. The last inspection of the above weekly inspections shall be carried out immediately prior to the above movement</p>	and Trás-os-Montes.), FI, S, UK	
<p>24.2. Plants of <i>Euphorbia pulcherrima</i> Willd., intended for planting, other than:</p> <ul style="list-style-type: none"> – seeds, – those for which there 	<p>Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I) (45.1), where appropriate official statement that:</p> <p>(a) the plants originate in an area known to be free from <i>Bemisia tabaci</i></p>	IRL, P (Azores, Beira Interior, Beira Litoral, Entre Douro e Minho, Madeira, Ribatejo e	<ul style="list-style-type: none"> • <i>Bemisia tabaci</i> Genn. (European populations)¹ [tobacco whitefly; silver leaf whitefly] are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
shall be evidence by their packing or their flower (or bract) development or by other means that they are intended for sale to final consumers not involved in professional plant production, – those specified in 24.1	Genn. (European populations), or (b) no signs of <i>Bemisia tabaci</i> Genn. (European populations) have been observed on plants at the place of production on official inspections carried out at least once each three weeks during the nine weeks prior to marketing, or (c) in cases where <i>Bemisia tabaci</i> Genn. (European populations) has been found at the place of production, the plants, held or produced in this place of production have undergone an appropriate treatment to ensure freedom from <i>Bemisia tabaci</i> Genn. (European populations) and subsequently this place of production shall have been found free from <i>Bemisia tabaci</i> Genn. (European populations) as a consequence of the implementation of appropriate procedures aiming at eradicating <i>Bemisia tabaci</i> Genn. (European populations), in both official inspections carried out weekly during the three weeks prior to the movement from this place of production and in monitoring procedures throughout the said period. The last inspection of the above weekly inspections shall be carried out immediately prior to the	Oeste (communes of Alcobaça, Alenquer, Bombarral, Cadaval, Caldas da Rainha, Lourinhã, Nazaré, Obidos, Peniche and Torres Vedras) and Trás-os-Montes .), FI, S, UK	



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>above movement, and (d) evidence is available that the plants have been produced from cuttings which:</p> <p>(da) originate in an area known to be free from <i>Bemisia tabaci</i> Genn. (European populations), or (db) have been grown at a place of production where no signs of <i>Bemisia tabaci</i> Genn. (European populations) have been observed on official inspections carried out at least once each three weeks during the whole production period of these plants, or (dc) in cases where <i>Bemisia tabaci</i> Genn. (European populations) has been found at the place of production, have been grown on plants held or produced in this place of production having undergone an appropriate treatment to ensure freedom from <i>Bemisia tabaci</i> Genn. (European populations) and subsequently this place of production shall have been found free from <i>Bemisia tabaci</i> Genn. (European populations) as a consequence of the implementation of appropriate procedures aiming at eradicating <i>Bemisia tabaci</i> Genn. (European populations), in both official</p>		

Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	inspections carried out weekly during the three weeks prior to the movement from this place of production and in monitoring procedures throughout the said period. The last inspection of the above weekly inspections shall be carried out immediately prior to the above movement		
24.3. Plants of <i>Begonia</i> L. , intended for planting, other than seeds, tubers and corms, and plants of <i>Ficus</i> L. and <i>Hibiscus</i> L. , intended for planting, other than seeds, other than those for which there shall be evidence by their packing or their flower development or by other means that they are intended for sale to final consumers not involved in professional plant production	Without prejudice to the requirements applicable to the plants listed in Annex IV(A)(I) (45.1), where appropriate, official statement that: (a) the plants originate in an area known to be free from <i>Bemisia tabaci</i> Genn. (European populations), or (b) no signs of <i>Bemisia tabaci</i> Genn. (European populations) have been observed on plants at the place of production on official inspections carried out at least once each three weeks during the nine weeks prior to marketing, or (c) in cases where <i>Bemisia tabaci</i> Genn. (European populations) has been found at the place of production, the plants, held or produced in this place of production have undergone an appropriate treatment to ensure freedom from <i>Bemisia tabaci</i> Genn. (European	IRL, P (Azores, Beira Interior, Beira Litoral, Entre Douro e Minho, Madeira, Ribatejo e Oeste (communes of Alcobaça, Alenquer, Bombarral, Cadaval, Caldas da Rainha, Lourinhã, Nazaré, Obidos, Peniche and Torres Vedras) and Trás-os-Montes .), FI, S,	<ul style="list-style-type: none"> • <i>Bemisia tabaci</i> Genn. (European populations)¹ [tobacco whitefly; silver leaf whitefly] are known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	populations) and subsequently this place of production shall have been found free from <i>Bemisia tabaci</i> Genn. (European populations) as a consequence of the implementation of appropriate procedures aiming at eradicating <i>Bemisia tabaci</i> Genn. (European populations), in both official inspections carried out weekly during the three weeks prior to the movement from this place of production and in monitoring procedures throughout the said period. The last inspection of the above weekly inspections shall be carried out immediately prior to the above movement	UK	
25. Plants of <i>Beta vulgaris</i> L. , intended for industrial processing	Official statement that: (a) the plants are transported in such a manner as to ensure that there is no risk of spreading BNYVV , and are intended to be delivered to a processing plant with officially approved waste disposal facilities, which ensures that there is no risk of spreading BNYVV , or (b) the plants have been grown in an area where BNYVV is known not to occur	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland).	<ul style="list-style-type: none"> Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
26. Soil from beet and unsterilized waste from beet (<i>Beta vulgaris</i> L.)	Official statement that soil or waste: (a) has been treated to eliminate contamination with BNYVV , or (b) is intended to be transported for disposal in an officially approved manner, or (c) comes from <i>Beta vulgaris</i> plants grown in an area where BNYVV is known not to occur	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland)	<ul style="list-style-type: none"> • Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa
27.1. Seeds and fodder beet seed of the species <i>Beta vulgaris</i> L.	Without prejudice to the provisions of Council Directive 66/400/EEC of 14 June 1966 on the marketing of beet seed ¹⁸ , where applicable, official statement that: (a) the seed of the categories “basic seed” and “certified seed” satisfies the conditions laid down in Annex I(B)(3) to Directive 66/400/EEC; or (b) in the case of “seed not finally certified”, the seed: – satisfies the conditions laid down in Article (15)(2) of Directive 66/400/EEC, and – is intended for processing that will satisfy the conditions laid down in Annex I(B) to Directive 66/400/EEC and delivered to a processing enterprise with officially approved	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland)	<ul style="list-style-type: none"> • Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	controlled waste disposal, to prevent the spread of Beet necrotic yellow vein virus (BNYVV) ; (c) the seed has been produced from a crop grown in an area where BNYVV is known not to occur.		
27.2. Vegetable seed of the species <i>Beta vulgaris</i> L	Without prejudice to the provisions of Council Directive 70/458/EEC of 29 September 1970 on the marketing of vegetable seed ¹⁹ , where applicable, official statement that: (a) the processed seed contains no more than 0,5% by weight of inert matter, in the case of pelleted seed this standard shall be met prior to pelleting; or (b) in the case of non-processed seed, the seed: – shall be officially packed in such a manner as to ensure that there is no risk of spread of BNYVV , and – is intended for processing that will satisfy the conditions laid down in (a) and delivered to a processing enterprise with officially approved controlled waste disposal, to prevent the spread of Beet necrotic yellow vein virus (BNYVV); or (c) the seed has been produced from a crop grown in an area where	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland)	<ul style="list-style-type: none"> • Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	BNYVV is known not to occur		
28. Seeds of <i>Gossypium</i> spp.	Official statement that: (a) the seed has been aciddelinted, and (b) no symptoms of <i>Glomerella gossypii</i> Edgerton have been observed at the place of production since the beginning of the last complete cycle of vegetation, and that a representative sample has been tested and has been found free from <i>Glomerella gossypii</i> Edgerton in those tests.	EL	<ul style="list-style-type: none"> <i>Glomerella gossypii</i> Edgerton^{1;2;8} [<i>Colletotrichum gossypii</i> Southw.] (anthracnose of cotton) are known to occur in south Africa
28.1. Seeds of <i>Gossypium</i> spp	Official statement that: – the seed has been aciddelinted.	EL, E (Andalucía, Catalonia, Extremadura, Murcia, Valencia)	<ul style="list-style-type: none"> Applicable to south Africa
29. Seeds of <i>Mangifera</i> spp.	Official statement that: – the seeds originate in areas known to be free from <i>Sternochetus mangiferae</i> Fabricius.	E (Granada and Malaga), P (Alentejo, Algarve and Madeira)	<ul style="list-style-type: none"> <i>Sternochetus mangiferae</i> Fabricius^{1;8} (mango seed weevil) are known to occur in south Africa
30. Used agricultural machinery	(a) The machinery shall be cleaned and free from soil and plant debris when brought in on places of production where beets are	F (Brittany), FI, IRL, P (Azores), UK (Northern Ireland)	<ul style="list-style-type: none"> Beet necrotic yellow vein virus^{1,4,8} are not known to occur in South Africa



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	grown, or (b) the machinery shall come from an area where BNYVV is known not to occur		
31. Fruits of <i>Citrus</i> L., <i>Fortunella</i> Swingle, <i>Poncirus</i> Raf., and their hybrids originating in E, F (except Corsica), CY and I	Without prejudice to the requirement in Annex IV Part A Section II point 30.1 that packaging should bear an origin mark: (a) the fruits shall be free from leaves and peduncles; or (b) in the case of fruits with leaves or peduncles, official statement that: – the fruits are packed in closed containers which have been officially sealed and shall remain sealed during their transport through a protected zone, recognised for these fruits, and shall bear a distinguishing mark to be reported on the passport.	EL, F (Corsica), M, P	<ul style="list-style-type: none"> • Not applicable to South Africa
32. Plants of <i>Vitis</i> L., other than fruit and seeds.	Without prejudice to the provisions applicable to the plants listed in Annex III(A)(15), IVA(II) 17, and IVB21.1, official statement that:: (a) the plants originate and have been grown in a place of production in a country where Grapevine flavescence dorée MLO is not known to occur; or	CZ, FR (Champagne-Ardenne, Lorraine and Alsace), IT (Basilicata)	<ul style="list-style-type: none"> • Not Applicable to South Africa • Pants of <i>Vitis</i> L. are prohibited to be exported from South Africa [Annex IIIA (15)]:



Plants, plant products and other objects	Special requirements	Protected zone(s)	Export Certification guidelines
	<p>(b) the plants originate and have been grown in a place of production in an area free from Grapevine flavescence dorée MLO established by the national plant protection organisation in accordance with the relevant international standards; or</p> <p>(c) the plants originate and have been grown in either the Czech Republic, France (Champagne- Ardennes, Lorraine and Alsace), or Italy (Basilicata); or</p> <p>(d) the plants originate and have been grown in a place of production where:</p> <p>(aa) no symptoms of Grapevine flavescence dorée MLO have been observed on the mother- stock plants since the beginning of the last two complete cycles of vegetation; and</p> <p>(bb) either</p> <p>(i) no symptoms of Grapevine flavescence dorée MLO have been found on the plants in the place of production; or,</p> <p>(ii) the plants have undergone hot water treatment of at least 50 °C for 45 minutes in order to eliminate the presence of Grapevine flavescence dorée MLO.</p>		

ANNEX V

PLANTS, PLANT PRODUCTS AND OTHER OBJECTS WHICH MUST BE SUBJECT TO A PLANT HEALTH INSPECTION (AT THE PLACE OF PRODUCTION IF ORIGINATING IN THE COMMUNITY, BEFORE BEING MOVED WITHIN THE COMMUNITY — IN THE COUNTRY OF ORIGIN OR THE CONSIGNOR COUNTRY, IF ORIGINATING OUTSIDE THE COMMUNITY) BEFORE BEING PERMITTED TO ENTER THE COMMUNITY

PART B

PLANTS, PLANT PRODUCTS AND OTHER OBJECTS ORIGINATING IN TERRITORIES, OTHER THAN THOSE TERRITORIES REFERRED TO IN PART A

I. Plants, plant products and other objects which are potential carriers of harmful organisms of relevance for the entire Community

1. Plants, intended for planting, other than seeds but including seeds of *Cruciferae* *Gramineae*, *Trifolium* spp., originating in Argentina, Australia, Bolivia, Chile, New Zealand and Uruguay, *genera Triticum*, *Secale* and *X Triticosecale* from Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa and the USA. *Capsicum* spp. *Helianthus annuus* L., *Lycopersicon lycopersicum* (L.) Karsten ex Farw., *Medicago sativa* L., *Prunus* L., *Rubus* L., *Oryza* spp., *Zea mays* L., *Allium ascalonicum* L., *Allium cepa* L., *Allium porrum* L., *Allium schoenoprasum* L. and *Phaseolus* L.

2. Parts of plants, other than fruits and seeds of:

- *Castanea* Mill., *Dendranthema* (DC) Des. Moul., *Dianthus* L., *Gypsophila* L., *Pelargonium* l'Herit. ex Ait, *Phoenix* spp., *Populus* L., *Quercus* L., *Solidago* L. and cut flowers of *Orchidaceae*,
- conifers (*Coniferales*),
- *Acer saccharum* Marsh., originating in North American countries,
- *Prunus* L., originating in non-European countries,
- Cut flowers of *Aster* spp., *Eryngium* L., *Hypericum* L., *Lisianthus* L., *Rosa* L. and *Trachelium* L., originating in non-European countries,
- Leafy vegetables of *Apium graveolens* L. and *Ocimum* L.

3. Fruits of:

- *Citrus* L., *Fortunella* Swingle, *Poncirus* Raf., and their hybrids, *Momordica* L. and *Solanum melongena* L.,
- *Annona* L., *Cydonia* Mill., *Diospyros* L., *Malus* Mill., *Mangifera* L., *Passiflora* L., *Prunus* L., *Psidium* L., *Pyrus* L., *Ribes* L. *Syzygium* Gaertn., and *Vaccinium* L., originating in non-European countries.

4. Tubers of *Solanum tuberosum* L.

5. Isolated bark of:

- conifers (*Coniferales*),
- *Acer saccharum* Marsh, *Populus* L., and *Quercus* L. other than *Quercus suber* L.

6. Wood within the meaning of the first subparagraph of Article 2(2), where it:

(a) has been obtained in whole or part from one of the order, genera or species as described hereafter:

- *Castanea* Mill.,
- *Castanea* Mill., *Quercus* L., including wood which has not kept its natural round surface, originating in North American countries,
- *Platanus* L., including wood which has not kept its natural round surface,
- Conifers (*Coniferales*), other than *Pinus* L., originating in non- European countries, including wood which has not kept its natural round surface,
- *Pinus* L., including wood which has not kept its natural round surface,
- *Populus* L., originating in countries of the American continent,
- *Acer saccharum* Marsh., including wood which has not kept its natural surface, originating in North American countries,

and

b) meets one of the following descriptions laid down in Annex I, Part II to Regulation (EEC) No 2658/87.

CN code	Description
4401 10 00	Fuel wood, in logs, in billets, in twigs, in faggots or in similar forms
ex 4401 21 00	Wood in chips or particles — coniferous originating in non-European countries
4401 22	Wood in chips or particles — non-coniferous
ex 4401 30	Wood waste and scrap, not agglomerated in logs, briquettes, pellets, or similar forms
ex 4403 20	Wood in the rough, whether or not stripped of bark or sapwood or roughly squared — other than treated with paint, stains, creosote or other preservatives, coniferous originating in non-European countries
4403 91 00	Wood in the rough, whether or not stripped of bark or sapwood or squared: — other than treated with paint, stains, creosote or other preservatives — oak (<i>Quercus</i> spp.)



CN code	Description
4403 99	Wood in the rough, whether or not stripped of bark or sapwood, or squared: — other than treated with paint, stains, creosote or other preservatives, — other than coniferous, of oak (<i>Quercus</i> spp.) or of beech (<i>Fagus</i> spp.)
ex 4404 10 00	Split poles: piles, pickets and stakes of wood, pointed but not sawn lengthwise: — coniferous, originating in non-European countries
ex 4404 20 00	Split poles: piles, pickets and stakes of wood, pointed but not sawn lengthwise: — non-coniferous
4406 10 00	Railway or tramway sleepers (cross-ties) of wood: — not impregnated
ex 4407 10	Wood sawn or chipped lengthwise, sliced or peeled, not planed, sanded or finger-jointed, of a thickness exceeding 6 mm, in particular beams, planks, flitches, boards, laths: — coniferous originating in non-European countries
ex 4407 91	Wood sawn or chipped lengthwise, sliced or peeled, not planed, sanded or finger-jointed, of a thickness exceeding 6 mm, in particular beams, planks, flitches, boards, laths: — of oak (<i>Quercus</i> spp.)
ex 4407 99	Wood sawn or chipped lengthwise, sliced or peeled, not planed, sanded or finger-jointed, of a thickness exceeding 6 mm, in particular beams, planks, flitches, boards, laths: — other than coniferous, of tropical woods, of oak (<i>Quercus</i> spp.) or of beech (<i>Fagus</i> spp.)
ex 4415 10	Packing cases, crates and drums of wood originating in non-European countries
ex 4415 20	Pallets, box pallets and other load boards, of wood originating in non-European countries

CN code	Description
ex 4416 00	Barrels of wood, including staves, of oak (<i>Quercus</i> spp.)

Pallets and box pallets (CN code ex 4415 20) are also exempted where they satisfy the standard set up for 'UIC pallets' and are marked accordingly.

7. (a) Soil and growing medium as such, which consists in whole or in part of soil or solid organic substances such as parts of plants, humus including peat or bark, other than that composed entirely of peat.

(b) Soil and growing medium, attached to or associated with plants, consisting in whole or in part of material specified in (a) or consisting in part of any solid inorganic substance, intended to sustain the vitality of the plants, originating in:

- Turkey,
- Belarus, Georgia, Moldova, Russia, Ukraine,
- non-European countries, other than Algeria, Egypt, Israel, Libya, Morocco, Tunisia.

8. Grain of the genera *Triticum*, *Secale* and *X Triticosecale* originating in Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa and the USA.

II. Plants, plant products and other objects which are potential carriers of harmful organisms of relevance for certain protected zones

Without prejudice to the plants, plant products and other objects listed in I.

1. Plants of *Beta vulgaris* L., intended for industrial processing.
2. Soil from beet and unsterilized waste from beet (*Beta vulgaris* L.).
3. Live pollen for pollination of *Amelanchier* Med., *Chaenomeles* Lindl., *Cotoneaster* Ehrh., *Crataegus* L., *Cydonia* Mill., *Eriobotrya* Lindl., *Malus* Mill., *Mespilus* L., *Photinia davidiana* (Dcne.) Cardot, *Pyracantha* Roem., *Pyrus* L. and *Sorbus* L.;
4. Parts of plants, other than fruit and seeds, of *Amelanchier* Med., *Chaenomeles* Lindl., *Cotoneaster* Ehrh., *Crataegus* L., *Cydonia* Mill., *Eriobotrya* Lindl., *Malus* Mill., *Mespilus* L., *Photinia davidiana* (Dcne.) Cardot, *Pyracantha* Roem., *Pyrus* L. and *Sorbus* L.
5. Seeds of *Dolichos* Jacq., *Mangifera* spp., *Beta vulgaris* L. and *Phaseolus vulgaris* L.
6. Seeds and fruits (bolls) of *Gossypium* spp. and unginned cotton.
- 6a. Fruits of *Vitis* L.
7. Wood within the meaning of the first subparagraph of Article 2(2), where it

(a) has been obtained in whole or part from conifers (*Coniferales*), other than *Pinus* L., originating in European third countries; and

(b) meets one of the following descriptions laid down in Annex I, Part II to Regulation (EEC) No 2658/87.

CN code	Description
4401 10 00	Fuel wood, in logs, in billets, in twigs, in faggots or in similar forms
4401 21 00	Wood in chips or particles
ex 4401 30	Wood waste and scrap, not agglomerated in logs, briquettes, pellets or similar forms
4403 20	Wood in the rough, whether or not stripped of bark or sapwood, or roughly squared: — other than treated with paint, stains, creosote or other preservatives
ex 4404 10 00	Split poles: piles, pickets and stakes of wood, pointed but not sawn lengthwise
4406 10 00	Railway or tramway sleepers (cross-ties): — not impregnated
ex 4407 10	Wood sawn or chipped lengthwise, sliced or peeled, not planed, sanded or finger-jointed, of a thickness exceeding 6 mm, in particular beams, planks, flitches, boards, laths
4415 10	Packing cases, crates and drums
4415 20	Pallets, box pallets and other load boards

Pallets and box pallets (CN code ex 4415 20) are also exempted where they satisfy the standards set up for 'UIC pallets' and are marked accordingly.

8. Parts of plants of *Eucalyptus* l'Herit.



ANNEX VI

PLANTS AND PLANT PRODUCTS TO WHICH SPECIAL ARRANGEMENTS MAY BE APPLIED

1. Cereals and their derivatives.
2. Dried leguminous plants.
3. Manioc tubers and their derivatives.
4. Residues from the production of vegetable oils.

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